

Biographical Sketch
of
JACEK K. FURDYNA

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Date of Birth: September 6, 1933

Place of Birth: Kamionka Strumilowa, Poland

Education: B. S. in Physics (*Summa cum Laude*), 1955, Loyola University,
Chicago, Illinois.

Ph.D. in Physics, 1960, Northwestern University, Evanston,
Illinois. Thesis: "Microwave Faraday Effect in Silicon and
Germanium." Thesis Advisor: Prof. Sybrand Broersma.

Positions Held:

1. Research Associate, Department of Electrical Engineering,
Northwestern University (1960-1962).
2. Staff Member, Francis Bitter National Magnet Laboratory,
M.I.T. (1962-1966).
3. Associate Professor, Department of Physics, Purdue University
(1966-1972).
4. Professor, Department of Physics, Purdue University (1972-
1986).
5. Chairman, Materials Sciences Council, Purdue University
(1982-1984).
6. Director, Materials Research Laboratory, Purdue University
(1984-1985).
7. Professor, Marquez Chair of Information Theory and Computer
Technology, Department of Physics, University of Notre Dame
(1987-present).

Societies: Fellow of the American Physical Society
 Fellow of the Institute of Physics (IOP), United Kingdom
 Fellow, American Association for the Advancement of Science

Honors: Doctor of Science *Honoris Causa*, Warsaw University 2002
 Doctor of Science *Honoris Causa*, Purdue University 2007
 Nicholas Coernicus Medal, Polish Academy of Sciences 2009

Special Appointments

1. U. S. National Academy of Sciences Exchange Scholar, Institute of Physics of the Polish Academy of Sciences, Warsaw, Poland (1972-1973).
2. Visiting Scientist, National Research Council of Canada, Ottawa, Canada, (July-December 1981).
3. Program Committee, 29th International Conference on Magnetism and Magnetic Materials, Pittsburgh, November 1983.
4. Program Committee, U. S. Workshop on the Physics and Chemistry of Mercury Cadmium Telluride (1984-1995).
5. Chairman, Symposium on Diluted Magnetic Semiconductors, March meeting of the American Physics Society, New York, NY, March 20, 1987.
6. Co-editor, "Diluted Magnetic (Semimagnetic).Semiconductors," Vol. 89, Materials Research Society Symposia Proceedings, Pittsburgh, PA 1987).
7. Editor, "Diluted Magnetic Semiconductors," Vol. 25 in the series Semiconductors and Semimetals (Academic Press, Boston, MA, 1988).
8. Chairman, NRC Panel on Diluted Magnetic Semiconductors, 1991.
9. International Editorial Board, Acta Physica Polonica (1993-present).
10. Program Committee, International Conference on II-VI Semiconductors, Edinburgh, 1994.
11. International Editorial Board, Semiconductor Science and Technology (1996-2001).
12. Program Committee, International Conference on II-VI Semiconductors, Grenoble, 1997.
13. Organize and Chair the review of AIP journal Applied Physics Letters, 2009.
14. Program Committee, Int'l Conference on Spin Phenomena SPINTECH, Krakow, Poland, 2008

15. Program Committee, International Conference on II-VI Semiconductors, St. Petersburg, 2009.
16. Program Committee, International Conference on II-VI Semiconductors, Cancun, Mexico, 2011
17. Program Committee, Int'l Conference on Spin Phenomena SPINTECH, Tokyo, Japan, 2011
18. International Editorial Board, Ukrainian Journal of Physics (2010 - 2014).
19. Program Committee, 56th International Conference on Magnetism and Magnetic Materials, Scottsdale, AZ, 2011.

Principal Scientific Interests

1. Materials preparation (bulk crystal growth and molecular beam epitaxy).of compound semiconductors, with emphasis on II-VI compounds and on magnetic semiconductors.
2. Far infrared magnetospectroscopy of semiconductors.
3. The physics of semiconductor superlattices and quantum wells.
4. Plasma effects in solids (helicon and Alfvén waves in semiconductors and semimetals; interaction of electromagnetic waves with bounded plasmas).
5. Electron spin resonance and ferromagnetic resonance
6. Neutron scattering (as a tool for determining magnetic structure of magnetic semiconductors).
7. The physics and fabrication of ferroantiferromagnetic semiconductors
8. Multijunction heterovalent solar cells

Publications

1960

1. Microwave Faraday Effect in Silicon and Germanium. J.K. Furdyna and S. Broersma. *Phys. Rev.* **120**, 1995-2003 (1960).

1961

2. Dependence of the Free-Carrier Faraday Ellipticity in Semiconductors on Scattering Mechanisms. J.K. Furdyna and M.E. Brodwin. *Phys. Rev.* **124**, 740-744 (1961).

1963

3. Magnetic-Field Dependence of Free-Carrier Absorption in Semiconductors. J.K. Furdyna and M.E. Brodwin, *Phys. Rev.* **132**, 97-104 (1963).

1964

4. Nonlinear Anisotropic Terms in the Free-Carrier Faraday Rotation in Cubic Semiconductors. J.K. Furdyna. *Phys. Rev. Letters* **13**, 426-429 (1964).
5. Alfvén-Wave Propagation in Pyrolytic and Single-Crystal Graphite. M. Surma, J.K. Furdyna, and H.C. Praddaude. *Phys. Rev. Letters* **13**, 710-712 (1964).

1965

6. Free Carrier Birefringence and Dichroism in Semiconductors. J.K. Furdyna and G.P. Soardo. *Proc. 7th Int. Conf. on the Physics of Semiconductors (Dunod, Paris, 1965)*, pp. 171-173.
7. Microwave Galvanomagnetic Measurements in Semiconducting Powders. J.K. Furdyna. *Proc. 7th Int. Conf. on the Physics of Semiconductors (Dunod, Paris, 1965)*, pp. 335-338.
8. Interferometric Measurement of Microwave Helicon Dispersion and the Hole Damping Effect in Intrinsic InSb. J.K. Furdyna. *Phys. Rev. Letters* **14**, 635-638 (1965).
9. Microwave Propagation Experiments in Semiconductor Plasmas at High Magnetic Fields. J.K. Furdyna. *Proc. Int. Conf. on Microwave Behavior of Ferrimagnetics and Plasmas, (IEE Conf. Publication No. 13, London, 1965)*, p. 635.

1966

10. Cyclotron Resonance in Pyrolytic and Single Crystal Graphite. S.J. Williamson, M. Surma, H.C. Praddaude, R.A. Patten, and J.K. Furdyna. *Solid State Commun.* **4**, 37-41 (1966).
11. Quantum Effects in Microwave Helicon Propagation in Degenerate Semiconductor Plasmas. J.K. Furdyna. *Phys. Rev. Letters* **16**, 646-650 (1966).
12. Microwave Helicon Interferometry in Semiconductor Plasmas. J.K. Furdyna. *Rev. Sci. Instr.* **37**, 462-467 (1966).
13. Orientation Dependence of the Resistive Transition Near H_{c2} in High Field Superconductors. S.J. Williamson and J.K. Furdyna. *Phys. Letters* **21**, 376-378 (1966).
14. Observation of Quantum, Spin, and High Field Damping Effects in Microwave Helicon Propagation in Degenerate Semiconductor Plasmas. J.K. Furdyna. *Proc. 8th Int. Conf. on the Physics of Semiconductors, Kyoto, J. Phys. Soc. of Japan* **2**, 713-717 (1966).

1967

15. Helicons, Magnetoplasma Edge, and Faraday Rotation in Solid State Plasmas at Microwave Frequencies. J.K. Furdyna. *Appl Optics* **6**, 675-684 (1967).
16. Microwave Faraday Rotation in Semiconductor Plasmas in the High Magnetic Field Limit. J.K. Furdyna. *Solid State Commun.* **5**, 539-542 (1967).
17. A New Magnetoplasma Mode of Electromagnetic Wave Propagation in Semiconducting Powders. J.K. Furdyna and F. L. Galeener. *Proc. 9th Int. Conf. on the Physics of Semiconductors, Moscow (Nauka, Leningrad, 1968)*, pp. 870-875.

1969

18. Propagation and Dimensional Resonances of Helicon-Like Waves in Powdered Semiconductors and Semimetals. F.L. Galeener and J.K. Furdyna. *Appl Phys. Letters* **14**, 163-166 (1969).

1970

19. Magnetoplasma Resonance in Semiconductor Powders. K.K. Chen, J.K. Furdyna, and F.L. Galeener. *Appl. Phys. Letters* **16**, 387 (1970).
20. Quantum Oscillations of Microwave Helicon Dispersion in n-type InSb and InAs. J.K. Furdyna and A.R. Krauss. *Phys. Rev. B* **2**, 3183-3192 (1970).

21. Electric and Magnetic Resonances of a Particulate Magnetoplasma: Identification by Microwave Propagation in Voigt Configuration. F.L. Galeener, A.A. Saralkar, and J.K. Furdyna. *Appl. Phys. Letters* **17**, 486 (1970).
22. Infrared and Microwave Magnetoplasma Effects in Semiconductors. E.D. Palik and J.K. Furdyna. *Reports on Progress in Physics* **33**, 1193-1322 (1970).

1971

23. Alfvén Wave Propagation and Damping in Pyrolytic Graphite in the Quantum Limit. J.K. Furdyna and A.R. Krauss. *Phys. Chem. Solids*, as the Proc. of the Conf. on the Physics of Semimetals and Narrow Band Semiconductors, Dallas, March 20-21, 1970, pp. 165-175 (1971).
24. Helicon-Like Wave Propagation in Powdered Semiconductors at Microwave Frequencies. F.L. Galeener and J.K. Furdyna. *Phys. Rev. B* **4**, 1953-1968 (1971).

1972

25. Recent Microwave Studies of Electromagnetic Wave Propagation in Semiconductor and Semimetal Magnetoplasmas. J.K. Furdyna. *Proc. of Symposium on the Physics of Plasma and Electric Instabilities in Solids*, Vilnius, June 10-12, 1971 (Mintis Publishing House, Vilnius, 1972).p. 73.
26. Temperature Dependence of Intrinsic Carrier Concentration in InSb: Direct Determination by Helicon Interferometry. K.K. Chen and J.K. Furdyna. *J. Appl. Phys.* **43**, 1825-1829 (1972).
27. Induction Cyclotron Resonance. F.L. Galeener, T.A. Evans, and J.K. Furdyna, *Phys. Rev. Letters* **29**, 728 (1972).
28. Cyclotron-Resonance-Like Absorption by the Induced Magnetic Moment in Small InSb Spheres. T.A. Evans, F.L. Galeener, and J.K. Furdyna. *Proc 11th Int. Conf. on the Physics of Semiconductors*, Warsaw, July 25-29, 1972. (PWN-Polish Scientific Publishers, Warsaw 1972), p. 357.

1973

29. Alfvén Wave Propagation and Damping in Pyrolytic and Single Crystal Graphite. A.R. Krauss and J.K. Furdyna. *Phys. Rev. B* **7**, 2520 (1973).
30. Microwave Magnetic Dipole Interaction in Small InSb Spheres: Induced Cyclotron-Resonance-Like Absorption in the Rayleigh Limit. T.A. Evans and J.K. Furdyna. *Phys. Rev. B* **8**, 1461 (1973).

1974

31. Feasibility of Cyclotron Resonance Studies in Semiconductors with High Carrier Concentrations. J.K. Furdyna, *Postepy Fzyki* **25**, 67 (1974).
32. Cyclotron-Plasma Mode Transitions as a Possible Tool for Effective Mass Determination. J.K. Furdyna and J. Mycielski. *Proc. Conf. on II-VI Semiconductor Compounds, Jaszowiec 1973 (IF-PAN, Warsaw, 1974)*, p. 178.
33. Free Carrier Motion and Conductivity Tensor in Materials with an Effective Mass Gradient in the Presence of a Magnetic Field. J.K. Furdyna and J. Mycielski, *Proc. Conf. on II-VI Semiconductor Compounds, Jaszowiec 1973 (IF-PAN, Warsaw, 1974)*, p. 196.
34. Excitation of EPR in $\text{Hg}_{1-x}\text{Mn}_x\text{Te}$ by Helicon Waves. R.T. Holm and J.K. Furdyna. *Proc. Conf. on II-VI Semiconductor Compounds, Jaszowiec 1973 (IF-PAN, Warsaw, 1974)*.p. 185.
35. Observation of Helicon-Excited Electron Paramagnetic Resonance in a High-Mobility Semiconductor. R.T. Holm and J.K. Furdyna, *Solid State Communications* **15**, 1459 (1974).
36. Nonlinear Electric and Optical Effects in Graded Mixed Semiconductors. J.K. Furdyna, L. Leibler, and J. Mycielski. *Proc. Twelfth Int. Conf. on the Physics of Semiconductors (B.G. Teubner, Stuttgart, 1974)*, p. 1171.

1975

37. Nonlinear Conductivity Tensor in Graded Mixed Semiconductors. L. Leibler, J. Mycielski, and J.K. Furdyna. *Phys. Rev. B* **11**, 3037 (1975).
38. Electromagnetic Excitations of a Small Gyrotropic Sphere. G.W. Ford, J.K. Furdyna, and S.A. Werner. *Phys. Rev. B* **12**, 1452 (1975).
39. Dimensional Electric Dipole Resonances in InSb Spheres. J.R. Dixon, Jr. and J.K. Furdyna, *Phys. Letters* **54A**, 59 (1975).
40. Landau Levels in Cyclotron Resonance in Graded Mixed Semiconductors. G. Bastard, J.K. Furdyna, and J. Mycielski. *Phys. Rev. B* **12**, 4356 (1975).

1976

41. Microwave Dimensional Resonances in Electron-Hole Drops. J.R. Dixon, Jr. and J.K. Furdyna. *Phys. Rev. B* **13**, 3657 (1976).

42. Comparison of the Major Magnetic Dimensional Resonances in Single-Carrier and in Compensated Two-Carrier Magnetoplasma Spheres. J.R. Dixon, Jr. and J.K. Furdyna. *Phys. Rev. B* **12**, 4626 (1976).
43. Microwave Resonance in Electron-Hole Drops. J.R. Dixon, Jr. and J.K. Furdyna. *Proc. 13th Int. Conf. on the Physics of Semiconductors*. Edited by F. G. Fumi (Tipografia, Rome, 1976), p. 918.

1977

44. The Influence of Sample Shape on Microwave Magnetoplasma and Helicon-Like Resonances in n-type InSb. R.S. Brazis and J.K. Furdyna. *J. Appl. Phys.* **48**, 2927 (1977).
45. Microwave Helicon Propagation and Helicon-Excited Electron Paramagnetic Resonance in $\text{Hg}_{1-x}\text{Mn}_x\text{Te}$. R.T. Holm and J.K. Furdyna. *Phys. Rev. B* **15**, 844 (1977).
46. Investigation of the Microwave Magnetoplasma Matching Effect in Indium Antimonide. R.S. Brazis and J.K. Furdyna. *J. Appl. Phys.* **48**, 4267 (1977).
47. Electromagnetic Excitations of a Small Gyromagnetic Sphere. R.S. Brazis and J.K. Furdyna. *Phys. Rev. B* **16**, 3273 (1977).
48. Giant Phase Anomaly in Microwave Magnetoplasma Reflection. R.S. Brazis and J.K. Furdyna. *Proc. Third Symposium on Electrical Instabilities and Plasma Effects in Solids*. Vilnius, U.S.S.R., 1977.
49. Microwave Magnetoplasma Spectroscopy in Semiconductors. *Proc. Int. Symposium on Microwave Diagnostics in Semiconductors*. Edited by R. Paananen (Swedish Academy of Engineering Sciences in Finland, Helsinki, 1977), p. 287.

1978

50. Microwave Propagation in Powdered Semiconductors. J.E. Sansonetti and J.K. Furdyna. *Proc. Conf. on Electrical Transport and Optical Properties of Inhomogeneous Media, Ohio State University, September 1977* (American Institute of Physics Conference Proceedings Series, No. 40, New York, 1978), p. 269.
51. Magnetic-Field-Induced Microwave Transparency of HgTe and its Ternary Compounds. D. P. Mullin, J. R. Dixon, Jr., and J.K. Furdyna. *Proc. 3rd Int. Conf. on the Physics of Narrow-Gap Semiconductors*. Edited by J. Rauluszkievicz (PWN-Elsevier, Warsaw, 1978), p. 221.
52. Microwave Propagation in InSb Powder: Magnetoplasma and Helicon-Wave Excitations. K.K. Chen and J.K. Furdyna. *J. Appl. Phys.* **49** (6), 3363 (1978).

53. Gyrotropic Sphere: Selected Examples of Resonance Spectra. J.R. Dixon, Jr. and J.K. Furdyna. *Phys. Rev. B* **18**, 6770 (1978).

1979

54. Microwave Propagation in Semiconductor Powders: The Rayleigh Limit. J.E. Sansonetti and J.K. Furdyna. *J. Appl. Phys.* **50**, 2889 (1979).
55. Radius-Independent Resonance in Electron-Hole Drop Magnetoplasmas. J.R. Dixon, Jr. and J.K. Furdyna. *Phys. Rev. B* **19**, 4167 (1979).
56. Electron Paramagnetic Resonance in Powdered Semiconductors and Semimetals. J.E. Sansonetti, D.P. Mullin, J.R. Dixon, Jr., and J.K. Furdyna. *J. Appl. Phys.* **50**, 5431 (1979).
57. Microwave Effects in Narrow-Gap Semiconductors, I. R.S. Brazis, J.K. Furdyna, and J.K. Pozela. *Phys. Stat. Solidi (a)*.**53**, 11 (1979).
58. Microwave Effects in Narrow-Gap Semiconductors, II. R.S. Brazis, J.K. Furdyna, and J.K. Pozela, *Phys. Stat. Solidi (a)*.**54**, 11 (1979).

1980

59. Effect of Magnetoresistance on EPR Lineshape in Conducting Media. D.P. Mullin and J.K. Furdyna. *J. Appl. Phys.* **51**, 2799 (1980).
60. Magneto-optical Evidence of Exchange Interactions in Zero Gap $\text{Hg}_{1-x}\text{Fe}_x\text{Te}$ Mixed Crystals. Y. Guldner, C. Rigaux, M. Menant, D.P. Mullin, and J.K. Furdyna. *Solid State Commun.* **33**, 133 (1980).
61. Microwave Helicon Resonances in n-InSb Spheres. J.R. Dixon, Jr. and J.K. Furdyna. *J. Appl. Phys.* **51**, 3762 (1980).
62. Depolarization Effects in Arrays of Spheres. J.E. Sansonetti and J.K. Furdyna. *Phys. Rev. B* **22**, 2866 (1980).
63. Measurement of the Static Dielectric Constant of the InSb Lattice via Gyrotropic Sphere Resonances. J.R. Dixon, Jr. and J.K. Furdyna. *Solid State Commun.* **35**, 195 (1980).
64. Cyclotron and Other Resonances in HgSe and $\text{Hg}_{1-x}\text{Mn}_x\text{Se}$. K. Pastor, M. Jaczynski, and J.K. Furdyna. *Proc. 15th Int. Conf. on the Physics of Semiconductors, Kyoto, 1980*, *J. Phys. Soc. Japan* **49**, Suppl. A. p. 779 (1980).
65. Magneto-optics in Semimagnetic Semiconducting $\text{Hg}_{1-x}\text{Mn}_x\text{Te}$ Mixed Crystals. C. Rigaux, G. Bastard, Y. Guldner, G. Rebmann, A. Mycielski, J.K. Furdyna, and D.P. Mullin. *Proc. 15th Int. Conf. on the Physics of Semiconductors, Kyoto, 1980*, *J. Phys. Soc. Japan* **49**, Suppl. A (1980).

66. Magnetic Susceptibility, Specific Heat, and the Spin-Glass Transition in $\text{Hg}_{1-x}\text{Mn}_x\text{Te}$. S. Nagata, R.R. Galazka, D.P. Mullin, H. Akbarzadeh, G.D. Khattak, J.K. Furdyna, and P.H. Keesom. *Phys. Rev. B* **22**, 331 (1980).

1981

67. Microwave Helicon Propagation and the Dynamic Magnetic Susceptibility in $\text{Hg}_{1-x}\text{Mn}_x\text{Se}$. D.P. Mullin, R.R. Galazka, and J.K. Furdyna. *Phys. Rev. B* **24**, 355 (1981).
68. Interband Magnetoabsorption in Semimagnetic Semiconductor Alloys $\text{Hg}_{1-x}\text{Mn}_x\text{Te}$ with a Positive Energy Gap. G. Bastard, C. Rigaux, Y. Guldner, A. Mycielski, J.K. Furdyna, and D.P. Mullin. *Phys. Rev. B* **24**, 1961 (1981).
69. Spin Glass Transition in a Diluted Frustrated Lattice. S. Nagata, R.R. Galazka, G.D. Kattak, C.D. Amarasekara, J.K. Furdyna, and P.H. Keesom. *Physics* **107B**, 311 (1981).
70. Electroreflectance Study of the Dilute Magnetic Semiconductor Alloy $\text{Hg}_{1-x}\text{Mn}_x\text{Te}$. P.M. Amirtharaj, F.H. Pollak, and J.K. Furdyna. *Solid State Commun.* **39**, 35 (1981).
71. Magnetic Correlations in Disordered $\text{Mn}_c\text{Zn}_{1-c}\text{Te}$ Alloys. T.M. Holden, G. Dolling, V.F. Sears, J.K. Furdyna, and W. Giriat. *Solid State Commun.* **40**, 281 (1981).
72. Far-Infrared Observation of Cyclotron and Spin-Flip Resonances in HgSe . K. Pastor, M. Jaczynski, and J.K. Furdyna, *Phys. Rev.* **24**, 7313 (1981).
73. Magnetic Phases of a Heisenberg Spin Glass in Strong Magnetic Fields: High Field Faraday Rotation in $\text{Cd}_{1-x}\text{Mn}_x\text{Te}$. H. Kett, W. Gebhardt, U. Krey, and J.K. Furdyna. *J. Mag. Materials* **25**, 215 (1981).

1982

74. The Effects of Pressure on the Elastic Constants of Mercury Selenide up to the Phase Transition. P.J. Ford, A.J. Miller, G.A. Saunders, Y.K. Yagurtcu, J.K. Furdyna and M.J. Jaczynski. *J. Phys. C: Solid State Phys.* **15**, 657 (1982).
75. The Influence of Exchange Interaction on Far-Infrared Spin-Flip Resonances in Zero-Gap $\text{Hg}_{1-x}\text{Mn}_x\text{Se}$. A. Witowski, K. Pastor, and J.K. Furdyna. *Phys. Rev. B* **26**, 931 (1982).
76. Electrical, Optical, and Magnetic Properties of $\text{Hg}_{1-x}\text{Mn}_x\text{Te}$. J.K. Furdyna. *Proc. U.S. Workshop on the Phys. and Chem. of HgCdTe , Minneapolis, October 1982. Published in *J. Vacuum Sci. and Technol.* **21**, (1), 220 (1982).*

77. Microwave and Far Infrared Magnetotransmission Studies in $\text{Hg}_{1-x}\text{Mn}_x\text{Se}$. R.E. Kremer, A.M. Witowski, M. Jaczynski, and J.K. Furdyna. Proc. 4th Int. Conf. on the Physics of Narrow Gap Semiconductors, Linz, Sept. 1981. Published as lecture notes in Physics, Springer-Verlag (Berlin, 1982), p. 307.
78. Infrared Magnetotransmission in Zero Gap $\text{Hg}_{1-x}\text{Fe}_x\text{Te}$ and $\text{Hg}_{1-x}\text{Fe}_x\text{Se}$ Mixed Crystals. H. Serre, G. Bastard, C. Rigaux, J. Mycielski, and J.K. Furdyna. Proc. 4th Int. Conf. on the Physics of Narrow Gap Semiconductors, Linz, Sept. 1981. Published as lecture notes in Physics, Springer-Verlag (Berlin, 1982), p. 321.
79. Magnetic Correlations in Disordered $\text{Mn}_c\text{Zn}_{1-c}\text{Te}$ Alloys. T.M. Holden, G. Dolling, V.F. Sears, J.K. Furdyna, and W. Girit. Proc. 27th Annual Conf. on Magnetism and Mag. Materials, J. Appl. Phys. **53**, 1882 (1982).
80. Diluted Magnetic Semiconductors: An Interface of Semiconductor Physics and Magnetism, J.K. Furdyna. Proc. 3rd Intermag/Magnetism and Mag. Materials Conf., Montreal, July 20-23, 1982. Published in J. Appl. Phys. **53**, 7637 (1982).
81. Neutron Diffraction Studies of Diluted Magnetic Semiconductors. G. Dolling, T.M. Holden, V.F. Sears, J.K. Furdyna, and W. Girit. J. Appl. Phys. **53**, 7644 (1982).
82. Electric Dipole Spin Resonance of Bound Electronic States in $\text{Cd}_{1-x}\text{Mn}_x\text{Se}$. M. Dobrowolska, H.D. Drew, J.K. Furdyna, T. Ichiguchi, A. Witowski, and P.A. Wolff. Phys. Rev. Letters **49**, 845 (1982).
83. Spin Correlations in $\text{Zn}_{1-c}\text{Mn}_c\text{Te}$. T.M. Holden, G. Dolling, V.F. Sears, J.K. Furdyna, and W. Girit. Phys. Rev. B **26**, 4074 (1982).

1983

84. The Dependence of the Lattice Parameter and Density of $\text{Zn}_{1-x}\text{Mn}_x\text{Te}$ on Composition. J.K. Furdyna, W. Girit, D.F. Mitchell, and G.I. Sproule. J. Solid State Chem. **46**, 349 (1983).
85. D- Levels in $\text{Cd}_{1-x}\text{Mn}_x\text{Se}$. T. Ichiguchi, H.D. Drew, and J.K. Furdyna. Phys. Rev. Letters **50**, 612 (1983).
86. The Effects of Photon Momentum and Magnetic Field Reversal on the Far Infrared Electric Dipole Spin Resonance in InSb. M. Dobrowolska, Y.F. Chen, J.K. Furdyna, and S. Rodriguez. Phys. Rev. Letters **51**, 134 (1983).
87. Magnetic Susceptibility and the Spin Glass Transition of $\text{Cd}_{1-x}\text{Mn}_x\text{S}$ and $\text{Zn}_{1-x}\text{Mn}_x\text{S}$ at Low Temperatures. Y.Q. Yang, P.H. Keesom, J.K. Furdyna, and W. Girit. J. Solid State Chemistry **49**, 20 (1983).

88. EPR Measurements in $\text{Cd}_{1-x}\text{Mn}_x\text{Te}$ Under Extreme Line Broadening Using Microwave Faraday Rotation. R.E. Kremer and J.K. Furdyna. *J. Magnetism and Mag. Materials* **40**, 185 (1983).
89. $\text{Hg}_{1-x}\text{Mn}_x\text{Te}$: A New Candidate for Infrared Detectors. J.K. Furdyna. *Proc. SPIE - The Int. Soc. for Optical Engrg.*, Vol. 409, p. 42 (1983).
90. Diluted Magnetic Semiconductors. J.K. Furdyna. *Physics News in 1983*, edited by P.F. Schewe (American Institute of Physics 1983), p. 48.
91. Metals. J.K. Furdyna. *Encyklopedia Fizyki Wspolczesnej (Encyclopedia of Modern Physics)*, Polish Scientific Publishers PWN (Warsaw, 1983), pp. 505-516.
92. Quantum oscillations of indirect interband magnetoabsorption below the Burstein edge, J. Mycielski, G. Bastard, J.K. Furdyna, C. Rigaux, H. Serre, and A. Simiczyjew, *Proceedings of the International Symposium on Application of High Magnetic Fields in Semiconductor Physics*, edited by G. Landwehr (Springer-Verlag; Berlin, 1983), p. 272.
93. Magnetoplasma oscillations in a small conducting sphere, J.K. Furdyna, S. Goettig, J. Mycielski, and W. Trzeciakowski, *Proceedings of the International Symposium on Application of High Magnetic Fields in Semiconductor Physics*, edited by G. Landwehr (Springer-Verlag; Berlin, 1983), p. 293.

1984

94. Diluted Magnetic Semiconductors. J.K. Furdyna. *Physics Today*, January 1984, pp. 5-19.
95. Magnetic Susceptibility and Spin Glass Transition in $\text{Zn}_{1-x}\text{Mn}_x\text{Te}$. S.P. McAlister, J.K. Furdyna, and W. Giriat. *Phys. Rev. B* **29**, 1310 (1984).
96. Far-Infrared Observation of the Electric Dipole Spin Resonance of Donor Electrons in $\text{Cd}_{1-x}\text{Mn}_x\text{Se}$. M. Dobrowolska, A. Witowski, J.K. Furdyna, T. Ichiguchi, H.D. Drew, and P.A. Wolff. *Phys. Rev. B* **29**, 6652 (1984).
97. Electron Paramagnetic Resonance Linewidths in Diluted Magnetic Semiconductors: $\text{Cd}_{1-x}\text{Mn}_x\text{Te}$. D.J. Webb, S.M. Bhagat, and J.K. Furdyna. *J. Appl. Phys.* **55**, 2310 (1984).

1985

98. Dependence of EPR in Diluted Magnetic Semiconductors on the Host Lattice. R.E. Kremer and J.K. Furdyna. *Phys. Rev. B* **31**, 1 (1985).
99. Diluted Magnetic Semiconductor Superlattices and Heterostructures. S. Datta, J.K. Furdyna, and R.L. Gunshor. *Superlattices and Microstructures* **1**, 327 (1985).

100. Shallow Centers in Diluted Magnetic Semiconductors. J.K. Furdyna. *Solid State Commun.* **53**, 1097 (1985).
101. Surface and Interface Properties of $\text{Hg}_{1-x}\text{Mn}_x\text{Se}$. A. Franciosi, R. Reifenberger, and J.K. Furdyna. *J. Vac. Science and Technology A* **3**, 124 (1985).
102. Raman Scattering in the Narrow Gap Alloy $\text{Hg}_{1-x}\text{Cd}_x\text{Te}$. P.M. Amirtharaj, K.K. Tiong, P. Parayanthal, F.H. Pollak, and J.K. Furdyna. *Proc. 17th Int. Conf. on the Physics of Semiconductors, San Francisco, 1984*, edited by J.D. Chadi and W.A. Harrison, Springer-Verlag. (New York, 1985), p. 1397.
103. Magnetoplasma Oscillations in a Small Conducting Sphere. J.K. Furdyna, S. Goettig, J. Mycielski, and W. Trzeciakowski. *Phys. Rev. B* **31**, 7714 (1985).
104. g-factor Anisotropy of Conduction Electrons in InSb. Y.-F. Chen, M. Dobrowolska, and J.K. Furdyna. *Phys. Rev. B* **31**, 7989 (1985).
105. Interference of Electric Dipole and Magnetic Dipole Interactions in Conduction Electron Spin Resonance in InSb. Y.-F. Chen, M. Dobrowolska, J.K. Furdyna, and S. Rodriguez. *Phys. Rev. B* **32**, 890 (1985).
106. Inversion Asymmetry and Magneto-Optical Selection Rules in n-type Zinc Blende Semiconductors. S. Gopalan, J.K. Furdyna, and S. Rodriguez. *Phys. Rev. B* **32**, 903 (1985).
107. Diluted Magnetic Semiconductor Superlattices. R.L. Gunshor, N. Otsuka, T.C. Bonsett, R.B. Bylsma, S. Datta, W.M. Becker, and J.K. Furdyna. *Proc. 2nd Int. Conf. on II-VI Compounds, Aussois, France, March 1985*. *J. Crystal Growth* **72**, 294 (1985).
108. Investigation of EPR in $\text{Cd}_{1-x}\text{Mn}_x\text{Te}$ by Microwave Faraday Effect. R.E. Kremer and J.K. Furdyna. *Phys. Rev. B* **32**, 5591 (1985).
109. Lattice Parameters of $\text{Zn}_{1-x}\text{Mn}_x\text{Se}$ and Tetrahedral Bond Lengths in $\text{AII}_{1-x}\text{Mn}_x\text{BVI}$ Alloys. D.R. Yoder-Short, U. Debska, and J.K. Furdyna. *J. Appl. Phys.* **58**, 4056 (1985).
110. Monte Carlo simulation of FCC Heisenberg antiferromagnet with nearest- and next-nearest-neighbor interactions, T.M. Giebultowicz and J.K. Furdyna, *J. Appl. Phys.* **57**, 3312 (1985).
111. Raman characterization of $\text{Hg}_{1-x}\text{Cd}_x\text{Te}$ and related materials, P.M. Amirtharaj, K.K. Tiong, P. Parayanthal, F.H. Pollak, and J.K. Furdyna, *J. Vac. Sci. Technol. A* **3**, 226 (1985).

1986

112. Magnetic Susceptibility of Semimagnetic Semiconductors: The High Temperature Regime and the Role of Superexchange. J. Spalek, A. Lewicki, Z. Tarnawski, J.K. Furdyna, R. Galazka, and Z. Obuszko. *Phys. Rev. B* **33**, 3407 (1986).
113. Superexchange in Diluted Magnetic Semiconductors. A. Lewicki, J. Spalek, J.K. Furdyna, and R.R. Galazka. *J. Magn. Magn. Mater.* **54-57**, 1221 (1986).
114. Interband Faraday Rotation in Diluted Magnetic Semiconductors: $Zn_{1-x}Mn_xTe$ and $Cd_{1-x}Mn_xTe$. D.V. Bartholomew, J.K. Furdyna, and A.K. Ramdas. *Phys. Rev. B* **34**, 6943 (1986).
115. Optical Determination of the Antiferromagnetic Exchange Constant Between Nearest-Neighbor Mn^{2+} ions in $Zn_{0.95}Mn_{0.05}Te$. R.L. Aggarwal, S.N. Jasperson, P. Becla, and J.K. Furdyna. *Phys. Rev. B* **34**, 5894 (1986).
116. Spin splitting of the conduction band of InSb along [110], M. Cardona, N.E. Christensen, M. Dobrowolska, J.K. Furdyna, and S. Rodriguez, *Solid State Commun.* **60**, 17 (1986).
117. A simple lattice-matching guide for superlattices and Heterostructures of tetrahedrally-bonded semiconductors. J.K. Furdyna and J. Kossut, *Superlattices and Microstructures* **2**, 89 (1986).
118. Diluted magnetic semiconductors: issues and opportunities, J.K. Furdyna, *J. Vac. Sci. Technol. A* **4**, 2002 (1986).
119. Bonding and stability in narrow-gap ternary semiconductors for infrared applications, A. Wall, C. Caprile, A. Franciosi, M. Vaziri, R. Reifenberger, and J.K. Furdyna, *J. Vac. Sci. Technol. A* **4**, 2010 (1986).

1987

120. Far-Infrared Magnetospectroscopy of HgTe and $Hg_{1-x}Mn_xTe$ Epilayers Grown by MBE. H. Luo, M. Dobrowolska, Z. Yang, J.K. Furdyna, K.A. Harris, J.W. Cook, Jr., and J.F. Schetzina. *J. Vac. Sci. Technol. A* **5**, 3115 (1987).
121. Far-Infrared Magnetoabsorption in $Hg_{1-x}Mn_xTe/HgTe$ Superlattice. Z. Yang, M. Dobrowolska, H. Luo, J.K. Furdyna, K.A. Harris, J.W. Cook, Jr., and J.F. Schetzina. *Diluted Magnetic (Semimagnetic) Semiconductors*, edited by R.L. Aggarwal, J.K. Furdyna, and S. von Molnar (Vol. 89, Materials Research Society Symposia Proceedings, Pittsburgh, PA, 1987), p. 261.

122. EXAFS Determination of Bond Lengths in $\text{Zn}_{1-x}\text{Mn}_x\text{Se}$. B.A. Bunker, W.-F. Pong, and J.K. Furdyna. *Diluted Magnetic (Semimagnetic) Semiconductors*, edited by R.L. Aggarwal, J.K. Furdyna, and S. von Molnar (Vol. 89, Materials Research Society Symposia Proceedings, Pittsburgh, PA, 1987).p. 231.
123. Effects of Exchange Interaction in Diluted Magnetic Semiconductor Quantum Wells. J. Kossut and J.K. Furdyna. *Diluted Magnetic (Semimagnetic) Semiconductors*, edited by R.L. Aggarwal, J.K. Furdyna, and S. von Molnar (Vol. 89, Materials Research Society Symposia Proceedings, Pittsburgh, PA, 1987).p. 97.
124. Electronic Transport Properties of $\text{Hg}_{1-x}\text{Fe}_x\text{Se}$. F. Pool, J. Kossut, U. Debska, R. Reifenberger, and J.K. Furdyna. *Diluted Magnetic (Semimagnetic) Semiconductors*, edited by R.L. Aggarwal, J.K. Furdyna, and S. von Molnar (Vol. 89, Materials Research Society Symposia Proceedings, Pittsburgh, PA, 1987).p. 169.
125. Theoretical and experimental investigation of the effective g-factor of donor-bound electrons in InSb, Z. Barticevic, M. Dobrowolska, J.K. Furdyna, L.R. Ram Mohan, and S. Rodriguez, *Phys. Rev. B* **35**, 7464 (1987).
126. Mn-Mn exchange constants in zinc-manganese chalcogenides, T.M. Giebultowicz, J.J. Rhyne, and J.K. Furdyna, *J. Appl. Phys.* **61**, 3537 (1987).
127. Neutron diffraction study of the wurtzite-structure diluted magnetic semiconductor $\text{Zn}_{0.45}\text{Mn}_{0.55}\text{Se}$, T.M. Giebultowicz, J.J. Rhyne, J.K. Furdyna, and U. Debska, *J. Appl. Phys.* **61**, 3540 (1987).
128. Magnetic properties of diluted magnetic semiconductors, J.K. Furdyna and N. Samarth, *J. Appl. Phys.* **61**, 3526 (1987).
129. Quantum wells and superlattices of diluted magnetic semiconductors, J.K. Furdyna, J. Kossut, and A.K. Ramdas, in *Optical Properties of Narrow-Gap Low-Dimensional Structures*, edited by C.M. Sotomayor-Torres *et al.* (Plenum Press, New York, 1987), p. 135.
130. Large negative magnetoresistance of $\text{Cd}_{0.9}\text{Mn}_{0.1}\text{Se}$, J.R. Anderson, W.B. Johnson, D.R. Stone, and J.K. Furdyna, *J. Phys. Chem. Solids* **48**, 481 (1987).
131. Investigation of the pressure-induced B3-B1 phase transition in $\text{Cd}_{1-x}\text{Mn}_x\text{Te}$ ($0 \leq x \leq 0.70$), S.B. Qadri, E.F. Skelton, A.W. Webb, E.R. Carpenter, Jr., W.M. Schaefer, and J.K. Furdyna, *Phys. Rev. B* **35**, 6868 (1987).
132. Far-Infrared Magnetoabsorption in HgTe - CdTe and $\text{Hg}_{1-x}\text{Mn}_x\text{Te}$ - HgTe Superlattices. M. Dobrowolska, Z. Yang, H. Luo, J.K. Furdyna, K.A. Harris, J.W. Cook, Jr., and J.S. Schetzina. *J. Vac. Sci. Technol. A* **5**, 3089 (1987).

133. Electronic structure of ternary semimagnetic semiconductors, A. Franciosi, A. Wall, S. Chang, P. Philip, R. Reifenberger, F. Pool, and J.K. Furdyna, Proc. 18th International Conference on the Physics of Semiconductors, edited by O. Engstrom (World Scientific; Singapore, 1987), p. 1763.
134. Photoemission studies of core level shifts in HgCdTe, CdMnTe, and HgZnTe, C.K. Shih, W.E. Spicer, J.K. Furdyna, and A. Sher, J. Vac. Sci. Technol. A **5**, 3031 (1987).
135. Zero field μ^+ spin relaxation in $\text{Cd}_{1-x}\text{Mn}_x\text{Te}$ diluted magnetic semiconductors, E.J. Ansaldo, D.R. Noakes, R. Keitel, S.R. Kreitzman, J.H. Brewer, and J.K. Furdyna, Physics Letters A **120**, 483 (1987).

1988

136. Magnetic susceptibility of diluted magnetic (semimagnetic).semiconductors: Further evidence of superexchange. A. Lewicki, J. Spalek, J.K. Furdyna, and R.R. Galazka, Phys. Rev. B **37**, 1860 (1988).
137. Static magnetic susceptibility of $\text{Zn}_{1-x}\text{Mn}_x\text{Se}$, J.K. Furdyna, N. Samarth, R.B. Frankel, and J. Spalek, Phys. Rev. B **37**, 3707 (1988).
138. Helicon-excited electron paramagnetic resonance in $\text{Hg}_{1-x}\text{Mn}_x\text{Se}$, R.E. Kremer and J.K. Furdyna, Phys. Rev. B **37**, 4875 (1988).
139. Bound magnetic polarons below $T = 1\text{K}$, E. D. Isaacs, D. Heiman, M.J. Graf, B.B. Goldberg, R. Kershaw, D. Ridgley, K. Dwight, A. Wold, J. Furdyna, and J.S. Brooks, Phys. Rev. B **37**, 7108 (1988).
140. Determination of the valence-band offset at a HgTe/CdTe heterojunction by intervalence subband spectroscopy, Z. Yang and J.K. Furdyna, Appl. Phys. Lett. **52**, 498 (1988).
141. Crystal Structure, Composition, and Materials Preparation of Diluted Magnetic Semiconductors, W. Giriat and J.K. Furdyna, in Vol. 25, Semiconductors and Semimetals (Academic Press, Boston, 1988), p. 1.
142. A Proposed Interpretation of EPR Linewidth in Diluted Magnetic Semiconductors, N. Samarth and J.K. Furdyna, Solid State Commun. **65**, 801 (1988).
143. Electron Paramagnetic Resonance in $\text{Cd}_{1-x}\text{Mn}_x\text{S}$, $\text{Cd}_{1-x}\text{Mn}_x\text{Se}$, and $\text{Cd}_{1-x}\text{Mn}_x\text{Te}$, N. Samarth and J.K. Furdyna, Phys. Rev. B **37**, 9227 (1988).
144. Diluted Magnetic Semiconductors, J.K. Furdyna, Applied Physics Reviews: J. Appl. Phys. **64**, R29 (1988).

145. Inversion-Asymmetry-Induced Magneto-optical Transitions in HgTe/CdTe Superlattices," Z. Yang, M. Dobrowolska, H. Luo, J.K. Furdyna, and J.T. Cheung, *Phys. Rev. B* **38**, 3409 (1988).
146. Determination of the Valence Band Offset at a HgTe/CdTe Heterojunction by Magneto-optics," Z. Yang, M. Dobrowolska, H. Luo, J.K. Furdyna, K.A. Harris, J.W. Cook, Jr., and J.F. Schetzina, *Superlattices and Microstructures* **4**, 559 (1988).
147. Spin dynamics of $\text{Cd}_{1-x}\text{Mn}_x\text{Te}$ studied by muon spin relaxation and rotation, E.J. Ansaldo, D.R. Noakes, J.H. Brewer, S.R. Kreitzman, and J.K. Furdyna, *Phys. Rev. B* **38**, 1183 (1988).
148. Spin Dynamics in $\text{Zn}_{1-x}\text{Mn}_x\text{Te}$, T. M. Giebultowicz, J.J. Rhyne, W.Y. Ching, D.L. Huber, and J.K. Furdyna, *J. Appl. Phys.* **63**, 3297 (1988).
149. Diluted Magnetic Semiconductors, N. Samarth and J.K. Furdyna, *MRS Bulletin* **13**, 32 (1988).
150. Issues in Diluted Magnetic Semiconductor Quantum Wells and Superlattices, J. Kossut and J.K. Furdyna, *Acta Physica Polon. A* **73**, 851 (1988).
151. Anisotropy of Optical Absorption in Wurtzite-Phase $\text{Zn}_{0.85}\text{Mn}_{0.15}\text{S}$, H. J.M. Swagten, A. Twardowski, W.J.M. deJonge, M. Demianiuk, and J.K. Furdyna, *Solid State Commun.* **66**, 791 (1988).
152. Electric Field Effects on HgTe-based Quantum Wells, Z. Yang and J.K. Furdyna, *J. Appl. Phys.* **64**, 5248 (1988).
153. Interband Faraday Effect in $\text{Cd}_{1-x}\text{Mn}_x\text{Se}$, Eunsoon Oh, D.U. Bartholomew, A.K. Ramdas, J.K. Furdyna, and U. Debska, *Phys. Rev. B* **38**, 13183 (1988).
154. Magnetic Properties of $\text{Zn}_{1-x}\text{Mn}_x\text{S}$, H. J. M. Swagten, A. Twardowski, W.J.M. deJonge, M. Demianiuk, and J.K. Furdyna, *Solid State Commun.* **66**, 791 (1988).
155. Neutron Diffraction Studies of $\text{Zn}_{1-x}\text{Mn}_x\text{Te}$ and $\text{Cd}_{1-x}\text{Mn}_x\text{Te}$ Single Crystals, T.M. Giebultowicz, J.J. Rhyne, J.K. Furdyna, and R.R. Galazka, *J. de Physique Colloque* **49**, 1199 (1988).
156. High-density photogenerated free-carrier spin relaxation processes in Wurtzite semiconductors: CdSe and semimagnetic semiconductor $\text{Cd}_{1-x}\text{Mn}_x\text{Se}$, *IEEE Journal of Quantum Electronics* **24**, 315 (1988).

1989

157. Magnetic Dimensional Resonances in Fe_3O_4 Spheres, S. Rajagopalan and J.K. Furdyna, *Phys. Rev. B* **39**, 2532 (1989).
158. Electronic Raman Scattering in $\text{Cd}_{1-x}\text{Co}_x\text{Se}$, D.U. Bartholomew, E.K. Suh, A.K. Ramdas, S. Rodriguez, U. Debska, and J.K. Furdyna, *Phys. Rev. B* **39**, 5865 (1989).
159. Harmonic magnons in $\text{Cd}_{1-x}\text{Mn}_x\text{Te}$ and $\text{Zn}_{1-x}\text{Mn}_x\text{Te}$, T. M. Giebultowicz, J.J. Rhyne, W.Y. Ching, D.L. Huber, J.K. Furdyna, B. Lebech, and R.R. Galazka, *Phys. Rev. B* **39**, 6857 (1989).
160. Molecular Beam Epitaxy of Cubic (Zinc-blende).CdSe, N. Samarth, H. Luo, J.K. Furdyna, S.B. Qadri, Y.R. Lee, A.K. Ramdas and N. Otsuka, *Appl. Phys. Lett.* **54**, 2680 (1989).
161. Magnetic Susceptibility of $\text{Zn}_{1-x}\text{Co}_x\text{S}$ and $\text{Zn}_{1-x}\text{Co}_x\text{Se}$ alloys, A. Lewicki, A.I. Schindler, J.K. Furdyna, and W. Girit, *Phys. Rev. B* **40**, 2379 (1989).
162. High-pressure Investigation of $\text{Hg}_{0.91}\text{Mn}_{0.09}\text{Te}$, S.B. Qadri, E.F. Skelton, A.W. Webb, L. Colombo and J.K. Furdyna, *Phys. Rev. B* **40**, 2432 (1989).
163. Far-infrared Magneto-optical Study of $\text{Hg}_{1-x}\text{Cd}_x\text{Te}$ Superlattices with Graded Composition, Z. Yang, M. Dobrowolska, H. Luo, J.K. Furdyna, J.T. Cheung and N. Otsuka, *Appl. Phys. Lett.* **55**, 380 (1989).
164. Structural Characterization of Molecular Beam Epitaxially Grown $\text{Zn}_{1-x}\text{Mn}_x\text{Se}$, S.B. Qadri, N. Samarth and J.K. Furdyna, *J. Appl. Phys.* **66**, 3622 (1989).
165. Growth of Cubic (Zinc-blende).CdSe by Molecular Beam Epitaxy, N. Samarth, H. Luo, J.K. Furdyna, S.B. Qadri, Y.R. Lee, A.K. Ramdas and N. Otsuka, *Appl. Phys. Lett.* **54**, 2680 (1989).
166. Raman spectroscopy of two novel semiconductors and related superlattices: Cubic $\text{Cd}_{1-x}\text{Mn}_x\text{Se}$ and $\text{Cd}_{1-x}\text{Zn}_x\text{Se}$, R.G. Alonso, E.K. Suh, A.K. Ramdas, N. Samarth, H. Luo and J.K. Furdyna, *Phys. Rev. B* **40**, 3720 (1989).
167. Anisotropy of optical absorption in wurtzite-phase $\text{Zn}_{0.85}\text{Mn}_{0.15}\text{S}$, J.F. MacKay, W.M. Becker, J.W. Richardson, J.K. Furdyna, and W. Girit, *Phys. Rev. B* **40**, 11940 (1989).

168. Novel Magnetic and Opto-electronic Phenomena in Diluted Magnetic Semiconductor Multilayers and Superlattices, J.K. Furdyna and N. Samarth, Invited Paper in *Growth, Characterization, and Processing of Ultrathin Magnetic Films and Multilayers*, ed. B.T. Jonker *et al.* (Materials Research Society, Pittsburgh, 1989), p. 129.
169. Zeeman splittings of optical transitions at the L point of the Brillouin zone in semimagnetic semiconductors, D. Coquillat, J.P. Lascaray, J.A. Gaj, J. Deportes, and J.K. Furdyna, *Phys. Rev. B* **39**, 10088 (1989).
170. Novel band-tuning effects in Hg-based quantum structures by external electric or magnetic fields, Z. Yang, J.F. Schetzina, and J.K. Furdyna, *J. Vac. Sci. Technol. A* **7**, 360 (1989).

1990

171. Molecular Beam Epitaxy of CdSe and the Derivative Alloys $Zn_{1-x}Cd_xSe$ and $Cd_{1-x}Mn_xSe$, N. Samarth, H. Luo, J.K. Furdyna, S.B. Qadri, Y.R. Lee, A.K. Ramdas, and N. Otsuka, *Proc. Electronics Materials Conference 1989*, to be published in *Journal of Electronics Materials* **19**, 543 (1990).
172. Molecular Beam Epitaxy of Cubic $Zn_{1-x}Cd_xSe$ and $Cd_{1-x}Mn_xSe$ and Related Superlattices, N. Samarth, H. Luo, J.K. Furdyna, S.B. Qadri, Y.R. Lee, R.G. Alonso, E.K. Suh, A.K. Ramdas and N. Otsuka, *Proceedings of Fourth International Conference on Modulated Semiconductor Structures 1989*, *Surface Science* **228**, 226 (1990).
173. Diluted Magnetic Semiconductors, (Invited contribution).J.K. Furdyna and N. Samarth, chapter in *Encyclopedia of Physical Science and Technology Yearbook*, 295, (1990).
174. Band offsets and exciton confinement in $Zn_{1-y}Cd_ySe/Zn_{1-x}Mn_xSe$ quantum wells, W.J. Walecki, A.V. Nurmikko, N. Samarth, H. Luo, J.K. Furdyna, and N. Otsuka, *Appl. Phys. Lett.* **57**, 466 (1990).
175. Molecular Beam Epitaxy of $Zn_{1-x}Cd_xSe$ Epilayers and $ZnSe/Zn_{1-x}Cd_xSe$ Superlattices, N. Samarth, H. Luo, J.K. Furdyna, Y.R. Lee, R.G. Alonso, A.K. Ramdas, S.B. Qadri and N. Otsuka, *Appl. Phys. Lett.* **56**, 1163 (1990).
176. Magnetic exchange interactions in Co-based II-VI diluted magnetic semiconductors: $Zn_{1-x}Co_xS$, T.M. Giebultowicz, J.J. Rhyne, T.J. Udovic, J.K Furdyna, and W. Giriat, *Physical Review B* **41**, 504 (1990).
177. Anisotropic magnetic susceptibility of hexagonal Co-based diluted magnetic semiconductors, A. Lewicki, A.I. Schindler, I. Miotkowski, and J.K. Furdyna, *Phys. Rev. B* **41**, 4653 (1990).

178. Optical transitions in semiconductor superlattices with zinc-blende structure in the $k \cdot p$ approximation, H. Luo and J.K. Furdyna, *Phys. Rev. B* **41**, 5188 (1990).
179. Inelastic neutron scattering studies of II-VI diluted magnetic semiconductors (Invited), T.M. Giebultowicz, J.J. Rhyne, J.K. Furdyna, and P. Klosowski, *J. Appl. Phys.* **67**, 5096 (1990).
180. Far-infrared studies of shallow acceptors in p-type HgMnTe, T. Wojtowicz, M. Dobrowolska, and J.K. Furdyna, *Semicond. Sci. Technol.* **5**, S290 (1990).
181. Far-infrared determination of cyclotron and plasma shifted cyclotron resonances in thin MBE-grown films of α -Sn, T. Wojtowicz, M. Dobrowolska, J. Yang, H. Luo, J.K. Furdyna, L.W. Tu, and J. K. Wong, *Semicond. Sci. Technol.* **5**, S248 (1990).
182. Far-infrared magneto-optical study of holes and electrons in zero-gap HgTe/Cd_{0.85}Hg_{0.15}Te superlattices, M. Dobrowolska, T. Wojtowicz, H. Luo, J.K. Furdyna, O.K. Wu, J.R. Meyer, C.A. Hoffman, F.J. Bartoli, and L.R. Ram-Mohan, *Semicond. Sci. Technol.* **5**, S103 (1990).
183. Faraday rotation in Hg_{1-x}Mn_xTe at 1.3 and 1.55 μm , J.F. Dillon, J.K. Furdyna, U. Debska, and A. Mycielski, *J. Appl. Phys.* **67**, 4917 (1990).
184. Lattice parameter and nearest neighbor distance in Zn_{1-x}Fe_xSe ($0 \leq x \leq 0.22$), S.B. Qadri, K.H. Kim, E.F. Skelton, and J.K. Furdyna, *J. Appl. Phys.* **67**, 2156 (1990).
185. Spin glass behavior of Zn_{1-x}Co_xS, P.M. Shand, A. Lewicki, B.C. Crooker, W. Girit, and J.K. Furdyna, *J. Appl. Phys.* **67**, 5246 (1990).
186. Controlled modification of heterojunction band lineups by diffusive intralayers, J.T. McKinley, Y. Hwu, D. Rioux, A. Terrasi, F. Janine, G. Margaritondo, U. Debska, and J.K. Furdyna, *J. Vac. Sci. Technol. A* **8**, 1917 (1990).
187. Far-infrared magneto-optical study of holes and electrons in zero-gap HgTe/CdHgTe superlattices, M. Dobrowolska, T. Wojtowicz, H. Luo, J.K. Furdyna, O.K. Wu, J.N. Schulman, J.R. Meyer, C.A. Hoffman, and F.J. Bartoli, *Phys. Rev. B* **41**, 5084 (1990).
188. Diluted Magnetic Semiconductors, (invited contribution).N. Samarth and J.K. Furdyna, *Proceedings of IEEE-Magnetics* **78**, 990 (1990).
189. Structural Characterization of MBE-grown Zn_{1-x}Mn_xSe and ZnSe/Zn_{1-x}Mn_xSe superlattices, S.B. Qadri, N. Samarth and J.K. Furdyna, *J. Vac. Sci. Technol. A* **8**, 1884 (1990).

190. Antiferromagnetic Phase Transition in $\text{Cd}_{1-x}\text{Mn}_x\text{Se}$ Epilayers, T. Giebultowicz, P. Klosowski, N. Samarth, H. Luo, J.J. Rhyne, and J.K. Furdyna, *Phys. Rev. B* **42**, 2582 (1990).
191. Neutron Diffraction Studies of $\text{Cd}_{1-x}\text{Mn}_x\text{Se}$ Epilayers and ZnSe/MnSe Multilayers, T.M. Giebultowicz, P. Klosowski, J.J. Rhyne, N. Samarth, H. Luo, and J.K. Furdyna, *Mat. Res. Soc. Symp. Proc. Vol.* **166**, 115 (1990).
192. Higher order electron cyclotron resonances in n-type HgTe-CdTe superlattices, M. Dobrowolska, T. Wojtowicz, J.K. Furdyna, J.R. Meyer, R.D. Feldman, R.F. Austin, and L.R. Ram-Mohan, *Appl. Phys. Lett.* **57**, 1781 (1990).
193. Room Temperature Blue Lasing Action in (Zn,Cd)Se/ZnSe Optically Pumped Multiple Quantum Well Structures on Lattice-Matched (Ga,In)As Substrates, H. Jeon, J. Ding, A.V. Nurmikko, H. Luo, N. Samarth, J.K. Furdyna, W.A. Bonner and R.E. Nahory, *Appl. Phys. Lett.* **57**, 2413 (1990).
194. Ultraviolet and blue holographic lithography of ZnSe epilayers and heterostructures with feature size to 100 nm and below, W. Walecki, W.R. Patterson, A.V. Nurmikko, H. Luo, N. Samarth, J.K. Furdyna, M. Kobayashi, S. Durbin, and R.L. Gunshor, *Appl. Phys. Lett.* **57**, 2641 (1990).
195. Laser Action in the Blue-Green from Optically Pumped (Zn,Cd)Se/ZnSe Single Quantum Well Structures, J. Ding, H. Jeon, A.V. Nurmikko, H. Luo, N. Samarth, and J.K. Furdyna, *Appl. Phys. Lett.* **57**, 2756 (1990).
196. Room Temperature Exciton Absorption in (Zn,Cd)Se/ZnSe Quantum Wells at Blue-Green Wavelengths, J. Ding, N. Pelekanos, A.V. Nurmikko, H. Luo, N. Samarth, and J.K. Furdyna, *Appl. Phys. Lett.* **57**, 2885 (1990).
197. Optical Characterization of $\text{Cd}_{1-x}\text{Mn}_x\text{Te}$ epilayers grown by Liquid-Phase Epitaxy, Y. R.-Lee, R.G. Alonso, E.K. Suh, A.K. Ramdas, L.X. Li, and J.K. Furdyna, *J. Appl. Phys.* **68**, 1023 (1990).
198. Extended X-ray-Absorption Fine-Structure Studies of $\text{Zn}_{1-x}\text{Mn}_x\text{Se}$ Alloy Structure, W. F.-Pong, R.A. Mayanovic, B.A. Bunker, J.K. Furdyna, and U. Debska, *Phys. Rev. B* **41**, 8440 (1990).
199. Heterojunction Band Lineup Control: Role of Extended Dipoles, F. Zanini, J.T. McKinley, Y. Hwu, D. Rioux, A. Terrasi, G. Margaritondo, U. Debska, and J.K. Furdyna, *Vuoto* **20**, 54 (1990).
200. Super Hyperfine Structure in the EPR Spectrum of Divalent Manganese in Single Crystal Zinc Selenide, S.A. Marshall, D.R. Yoder-Short, C. Yu, Y.N. Zhang, and J.K. Furdyna, *Phys. Stat. Solidi (b)*, **160**, 591 (1990).

201. Birefringence and Faraday Effect in $\text{Cd}_{1-x}\text{Mn}_x\text{Se}$, Eunsoon Oh, D.U. Bartholomew, A.K. Ramdas, J.K. Furdyna, and U. Debska, *Phys. Rev. B* **42**, 5201 (1990).
202. Magneto-optical Properties of HgTe-CdTe Super Lattices, J.R. Meyer, R.J. Wagner, F.J. Bartoli, C.A. Hoffman, M. Dobrowolska, T. Wojtowicz, J.K. Furdyna, and L.R. Ram-Mohan, *Phys. Rev. B* **42**, 9050 (1990).
203. Diluted Magnetic Semiconductors, J.K. Furdyna and N. Samarth, *Encyclopedia of Physical Science and Technology Vol. 5*, 229 (1990).
204. Magneto-Optical Resonances in HgTe-CdTe Superlattices, J.R. Meyer, F.J. Bartoli, C.A. Hoffman, M. Dobrowolska, T. Wojtowicz, H. Luo, J.K. Furdyna, and L.R. Ram-Mohan, *Proc. 20th Int. Conf. on the Physics of Semiconductors, Thessaloniki, 1990* (World Scientific, Singapore, 1990), p. 1170.
205. Diluted magnetic semiconductors, N. Samarth and J.K. Furdyna, *Proceedings of the IEEE* **78**, 990 (1990).
206. Magnetic Properties of Co-based Diluted Magnetic Semiconductors, A. Lewicki, A.I. Schindler, J.K. Furdyna, and T.M. Giebultowicz, review article (to be published by World Scientific Publishing Co., 1990).

1991

207. Growth and Properties of New Wide-Gap Quantum Well Structures: $\text{ZnMnSe}/\text{ZnCdSe}$, N. Samarth, H. Luo, J. Buschert, J.K. Furdyna, W.J. Walecki, A.V. Nurmikko, R.G. Alonso, Eun-Soon Oh, A.K. Ramdas, and N. Otsuka, *J. Cryst. Growth* **111**, 816 (1991).
208. Magnetic Ordering in MnSe/ZnSe Multilayers, P. Klosowski, T. Giebultowicz, J.J. Rhyne, N. Samarth, H. Luo, and J.K. Furdyna, *J. Appl. Phys.* **69**, 6109 (1991).
209. Growth and Properties of a Low-strain II-VI Heterostructure: ZnTe/CdSe , H. Luo, N. Samarth, F.C. Zhang, A. Pareek, M. Dobrowolska, J.K. Furdyna, S.B. Qadri, K. Mahalingam, N. Otsuka, W. Chou, and A. Petrou, *Appl. Phys. Lett.* **58**, 1783 (1991).
210. Inter-subband transitions in narrow gap HgTe-CdTe superlattices, H. Luo, G.L. Yang, J.K. Furdyna, and L.R. Ram-Mohan, *J. Vac. Sci. Technol. B* **9**, 1809 (1991).
211. Specific Heat of $\text{Cd}_{1-x}\text{Co}_x\text{S}$ and $\text{Cd}_{1-x}\text{Co}_x\text{Se}$ at Low Temperatures, A. Lewicki, A.I. Schindler, I. Miotkowski, B.C. Crooker, and J.K. Furdyna, *Phys. Rev. B* **43**, 5713 (1991).

212. Magnetic Susceptibility of Diluted Magnetic Semiconductor Alloys $\text{Cd}_{1-x}\text{Co}_x\text{S}$ in the Temperature Range 40mK to 400 K, A. Lewicki, A.I. Schindler, P.M. Shand, B.C. Crooker, and J.K. Furdyna, *Phys. Rev. B* **44**, 6137 (1991).
213. Observation of Polaron Dynamics in Magnetic Quantum Wells, D.D. Awschalom, M.R. Freeman, N. Samarth, H. Luo, and J.K. Furdyna, *Phys. Rev. Letters* **66**, 1212 (1991).
214. Spin Freezing in Cobalt-based Diluted Magnetic Semiconductors, P.M. Shand, A. Lewicki, I. Miotkowski, B.C. Crooker, and J.K. Furdyna, *Phys. Rev. B* **44**, 6152 (1991).
215. Raman and Reflectivity Spectra of cubic CdMnSe epilayers grown by molecular beam epitaxy, R.G. Alonso, Y.R. Lee, Eunsoon Oh, A.K. Ramdas, H. Luo, N. Samarth, J.K. Furdyna, and H. Pascher, *Phys. Rev. B* **43**, 9610 (1991).
216. Characteristics of Thin Film ZnSe/ZnCdSe/ZnSe Heterostructure Waveguides in the Visible and Near Infrared, W.J. Walecki, A.V. Nurmikko, N. Samarth, H. Luo, and J.K. Furdyna, *J. Opt. Soc. Am. B* **8**, 1799 (1991).
217. Antiferromagnetism in Epilayers and Superlattices Containing MnTe and MnSe, P. Klosowski, T. Giebultowicz, J.J. Rhyne, N. Samarth, H. Luo, and J.K. Furdyna, *J. Appl. Phys.* **70**, 6221 (1991).
218. Molecular Beam Epitaxy of ZnSe/ZnCdSe Heterostructures and their Optical Properties, H. Luo, N. Samarth, J.K. Furdyna, J. Ding, H. Jeon, N. Pelekanos, and A.V. Nurmikko, *Proceedings of Mater. Res. Soc.* Spring 1991.
219. Antiferromagnetism in ZnSe/MnSe Strained Layer Superlattices, N. Samarth, P. Klosowski, H. Luo, T. Giebultowicz, J.K. Furdyna, J.J. Rhyne, B.E. Larson, and N. Otsuka, *Phys. Rev. B* **44**, 4701 (RC).(1991).
220. Low Threshold Pulsed and Continuous-wave Laser Action in Optically Pumped (Zn,Cd)Se/ZnSe Multiple Quantum Well Structures, H. Jeon, J. Ding, A.V. Nurmikko, H. Luo, N. Samarth, and J.K. Furdyna, *Appl. Phys. Lett.* **59**, 1293 (1991).
221. Raman and Photoluminescence Spectra of ZnCdSe/ZnMnSe: a Diluted Magnetic Semiconductor Superlattice, R.G. Alonso, Eunsoon Oh, A.K. Ramdas, H. Luo, N. Samarth, J.K. Furdyna, and L.R. Ram-Mohan, *Phys. Rev. B* **44**, 8009 (1991).
222. Persistent Spin Resonance of Donor Electrons and Hopping Magnetoconductivity in $\text{Cd}_{1-x}\text{Mn}_x\text{Te}_{1-y}\text{Se}_y$, T. Wojtowicz, N. Semaltianos, P. Klosowski, M. Dobrowolska, J.K. Furdyna, and I. Miotkowski, *Acta Phys. Polonica* **80**, 287 (1991).

223. Far-Infrared Magneto-optical Studies of HgTe-CdTe Superlattices in the Semimetallic Regime, T. Wojtowicz, M. Dobrowolska, J.K. Furdyna, J.R. Meyer, F.J. Bartoli, C.A. Hoffman, and L.R. Ram-Mohan, *Acta Phys. Polonica* **80**, 245 (1991).
224. Commensurate and Incommensurate Antiferromagnetism in Strained Magnetic Semiconductor Superlattices, N. Samarth, P. Klosowski, H. Luo, T. Giebultowicz, J.K. Furdyna, J.J. Rhyne, and N. Otsuka, *Thin Solid Films* (to be published).
225. Spin Superlattice Formation in ZnSe/ZnMnSe Multilayers, N. Dai, H. Luo, F. Zhang, N. Samarth, M. Dobrowolska, and J.K. Furdyna, *Phys. Rev. Letters* **67**, 3824 (1991).
226. Voigt effect in diluted magnetic semiconductors: $\text{Cd}_{1-x}\text{Mn}_x\text{Te}$ and $\text{Cd}_{1-x}\text{Mn}_x\text{Se}$, Eunsoon Oh, D.U. Bartholomew, A.K. Ramdas, J.K. Furdyna, and U. Debska, *Phys. Rev. B* **44**, 10551 (1991).
227. Molecular beam epitaxy of a low strain II-VI heterostructure: ZnTe/CdSe, H. Luo, N. Samarth, F.C. Zhang, A. Pareek, M. Dobrowolska, J.K. Furdyna, K. Mahalingam, N. Otsuka, W. C. Chou, A. Petrou, and S. B. Qadri, *Appl. Phys. Lett.* **58**, 1783 (1991).
228. Magnetic activation of bipolar plasmas in HgTe-CdTe superlattices, J.R. Meyer, C.A. Hoffman, F.J. Bartoli, T. Wojtowicz, M. Dobrowolska, J.K. Furdyna, X. Chu, J.P. Faurie, and L.R. Ram-Mohan, *Phys. Rev. B* **44**, 3455 (1991).
229. Magneto-optical transitions between subbands with different quantum numbers in narrow gap HgTe-CdTe superlattices, H. Luo, G.L. Yang, J.K. Furdyna, and L.R. Ram-Mohan, *J. Vac. Sci. Technol. B* **9**, 1809 (1991).
230. Antiferromagnetic ordering in MnSe/ZnSe multilayers, P. Klosowski, T.M. Giebultowicz, J.J. Rhyne, N. Samarth, H. Luo, and J.K. Furdyna, *J. Appl. Phys.* **69**, 6109 (1991).

1992

231. Modulated Reflectivity Spectrum of Strained ZnSe/ZnCdSe Single Quantum Wells, R.G. Alonso, C. Parks, A.K. Ramdas, H. Luo, N. Samarth, J.K. Furdyna, and L.R. Ram-Mohan, *Phys. Rev. B* **45**, 1181 (1992).
232. Pressure-induced Phase Transition in $\text{Zn}_{0.83}\text{Fe}_{0.17}\text{Se}$, S.B. Qadri, E.F. Skelton, A.W. Webb, N. Moulton, J.Z. Hu, and J.K. Furdyna, *Phys. Rev. B* **45**, 5670 (1992).

233. Quasi-two-dimensional Excitons in (Zn,Cd)Se/ZnSe Quantum Wells: Reduced Exciton-LO Phonon Coupling Due to Confinement Effects, N.T. Pelekanos, J. Ding, M. Hagerott, A.V. Nurmikko, H. Luo, N. Samarth, and J.K. Furdyna, *Phys. Rev. B* **45**, 6037 (1992).
234. Excitonic gain and stimulated emission in ZnSe-based quantum wells up to room temperature, J. Ding, H. Jeon, T. Ishihara, A.V. Nurmikko, H. Luo, N. Samarth, and J.K. Furdyna, *Surface Science* **267**, 616 (1992).
235. Hydrostatic-pressure studies of confined transitions in cubic $Zn_{1-x}Cd_xSe/ZnSe$ strained-layer quantum wells, R.J. Thomas, H.R. Chandrasekhar, M. Chandrasekhar, N. Samarth, H. Luo, and J.K. Furdyna, *Phys. Rev. B* **45**, 9505 (1992).
236. New Low-Strain II-VI Superlattices: ZnTe/CdSe and ZnTe/Cd $_{1-x}$ Mn $_x$ Se, N. Samarth, H. Luo, F. Zhang, A. Pareek, M. Dobrowolska, J.K. Furdyna, K. Mahalingam, N. Otsuka, W. Chou, and A. Petrou, *J. Vac. Sci. Tech. B* **10**, 915 (1992).
237. Magnetic Generation of Electrons and Holes in Semimetallic HgTe/CdTe Superlattices, J.R. Meyer, C.A. Hoffman, F.J. Bartoli, T. Wojtowicz, M. Dobrowolska, J.K. Furdyna, X. Chu, J.P. Faurie, and L.R. Ram-Mohan, *J. Vac. Sci. Technol. B* **10**, 1582 (1992).
238. Spin-Tuning in Magnetically Coupled Double Quantum Wells, J.F. Smyth, D.D. Awschalom, N. Samarth, H. Luo, and J.K. Furdyna, *Phys. Rev. B* **46**, 4340 (Rapid Commun.)(1992).
239. Static and Dynamic Spin Organization in Magnetic Semiconductor Nanostructures, N. Samarth, H. Luo, J.K. Furdyna, T.M. Giebultowicz, and D.D. Awschalom, *Acta Phys. Polonica A* **82**, 573 (1992).
240. Magnetic critical phenomena in fcc antiferromagnets: role of strain and dimensionality, P. Klosowski, T.M. Giebultowicz, N. Samarth, H. Luo, J.K. Furdyna, and J.J. Rhyne, *Journal of Magnetism and Magnetic Materials* **104-107**, 1795 (1992).
241. Investigation of ZnMnTe weakly diluted FCC magnetic semiconductor, P. Klosowski, T.M. Giebultowicz, N. Samarth, H. Luo, J.K. Furdyna, and J.J. Rhyne, *Physica B* **180-181**, 114 (1992).
242. Incommensurate antiferromagnetic order in strained layer MnSe/ZnTe superlattices, T.M. Giebultowicz, P. Klosowski, J.J. Rhyne, N. Samarth, H. Luo, and J.K. Furdyna, *Physica B* **180-181**, 485 (1992).

243. Molecular Beam Epitaxy of $\text{Zn}_{1-x}\text{Cd}_x\text{Se}/\text{ZnSe}$ Heterostructures and Their Optical Properties, H. Luo, N. Samarth, J.K. Furdyna, H. Jeon, J. Ding, N. Pelekanos, and A.V. Nurmikko, *Mat. Res. Soc. Symp. Proc.* **228**, 301 (1992).
244. Distributed feedback operation of optically pumped ZnSe quantum-well lasers in the blue-green, T. Ishihara, G. Brunthaler, W. Walecki, M. Hagerott, A.V. Nurmikko, N. Samarth, H. Luo, and J.K. Furdyna, *Appl. Phys. Lett.* **60**, 2460 (1992).
245. Magneto-optic phenomena in II-VI diluted magnetic semiconductors: the Faraday and the Voigt effect, Eunsoon Oh, A.K. Ramdas, and J.K. Furdyna, *Journal of Luminescence* **52**, 183 (1992).
246. Observation of Localized Above-Barrier Excitons in Type-I Superlattices, F.C. Zhang, N. Dai, H. Luo, N. Samarth, M. Dobrowolska, J.K. Furdyna, and L.R. Ram-Mohan, *Phys. Rev. Letters* **68**, 3220 (1992).
247. EXAFS Studies of the Ferroelectric Phase Transitions Induced by Off-center Ions in $\text{PbS}_x\text{Te}_{1-x}$ and $\text{Zn}_x\text{Cd}_{1-x}\text{Te}$ Alloys, Zhihai Wang, Bruce A. Bunker, Robert A. Mayanovic, Ursula Debska, Jacek K. Furdyna, and Quazi Islam, *Modern Physics Letters Vol. 6*, No. 20 (Sept. 1992).
248. Pressure-induced structural and resistive transformations of $(\text{Hg,Fe})\text{Se}$, Syed B. Qadri, A.W. Webb, E.F. Skelton, N. Moulton, J.Z. Hu, and J.K. Furdyna, *Phys. Rev. B* **46**, 639 (1992).
249. Excitonic gain and laser emission in ZnSe-based quantum wells, J. Ding, H. Jeon, T. Ishihara, M. Hagerott, A.V. Nurmikko, H. Luo, N. Samarth, and J.K. Furdyna, *Phys. Rev. Letters* **69**, 1707 (1992).
250. Strain-engineered incommensurability in epitaxial Heisenberg antiferromagnets, T.M. Giebultowicz, N. Samarth, H. Luo, J.K. Furdyna, P. Klosowski, and J.J. Rhyne, *Phys. Rev. B* **46**, 12076 (1992).
251. Far-infrared investigation of band structure parameters and exchange interaction in $\text{Pb}_{1-x}\text{Eu}_x\text{Te}$ films, G. Karczewski, J.K. Furdyna, D.L. Partin, C.N. Thrush, and J.P. Heremans, *Phys. Rev. B* **46**, 13331 (1992).
252. Application of Photomemory Effect in $\text{Cd}_{1-x}\text{Mn}_x\text{Te}_{1-y}\text{Se}_y:\text{In}$ for Direct Measurements of Magnetization of Bound Magnetic Polarons, T. Wojtowicz, S. Kolesnik, I. Miotkowski, and J.K. Furdyna, *Acta Physica Polonica A* **82**, 637 (1992).
253. Extended X-ray-absorption fine-structure studies of interfaces in ZnTe/CdSe superlattices, K.M. Kemner, B.A. Bunker, H. Luo, N. Samarth, J.K. Furdyna, M.R. Weidmann, and K.E. Newman, *Phys. Rev. B* **46**, 7272 (1992).

1993

254. An optical method for evaluation of the net acceptor concentration in p-type ZnSe, B. Hu, A. Yin, G. Karczewski, H. Luo, S.W. Short, N. Samarth, M. Dobrowolska, and J.K. Furdyna, *J. Appl. Phys.* **74**, 4153 (1993).
255. Deep hole traps in p-type nitrogen-doped ZnSe grown by molecular-beam epitaxy, B. Hu, G. Karczewski, H. Luo, N. Samarth, J.K. Furdyna, *Appl. Phys. Lett.* **63**, 358 (1993).
256. Observation of quasi-bound states in semiconductor single quantum barriers, H. Luo, N. Dai, F.C. Zhang, N. Samarth, M. Dobrowolska, J.K. Furdyna, C. Parks, and A.K. Ramdas, *Phys. Rev. Letters* **70**, 1307 (1993).
257. Observation of type-I excitons and related confinement effects in type-II superlattices, F.C. Zhang, H. Luo, N. Dai, N. Samarth, M. Dobrowolska, and J.K. Furdyna, *Phys. Rev. B* **47**, 3806 (1993).
258. Observation of novel type-I excitons in type-II superlattices, H. Luo, W.C. Chou, N. Samarth, A. Petrou, and J.K. Furdyna, *Solid State Commun.* **85**, 691 (1993).
259. Magnetization of Bound Magnetic Polarons: Direct Determination via Photomemory Effect, T. Wojtowicz, S. Kolesnik, I. Miotkowski, and J.K. Furdyna, *Phys. Rev. Letters* **70**, 2317 (1993).
260. Barrier Localization Effect in $\text{Al}_x\text{Ga}_{1-x}\text{As} - \text{Al}_y\text{Ga}_{1-y}\text{As}$ Superlattices, Lok C. Lew Yan Voon, L.R. Ram-Mohan, H. Luo, and J.K. Furdyna, *Phys. Rev. B* **47**, 6585 (1993).
261. Magnetic and Vibrational Raman Scattering from II-VI Magnetic Quantum Wells: ZnTe/ $\text{Cd}_{1-x}\text{Mn}_x\text{Se}$ and ZnTe/MnSe, Eunsoon Oh, A.K. Ramdas, N. Samarth, H. Luo, and J.K. Furdyna, *Phys. Rev. B* **47**, 7288 (1993).
262. Gallium-related defect centers in molecular-beam-epitaxy-grown ZnSe films: Influence of electric field on thermal emission of electrons, B. Hu, G. Karczewski, H. Luo, N. Samarth, and J.K. Furdyna, *Phys. Rev. B* **47**, 9641 (1993).
263. Persistent Photoconductivity and Photoionization of Deep Electron Traps in Ga-Doped $\text{Cd}_{1-x}\text{Mn}_x\text{Te}$, N.G. Semaltianos, G. Karczewski, T. Wojtowicz, and J.K. Furdyna, *Phys. Rev. B* **47**, 12540 (1993).
264. Zeeman-Tuning of Heterostructures Consisting of Semimagnetic and Non-Magnetic Semiconductors, J.K. Furdyna, H. Luo, and M. Dobrowolska, *Proc. 9th Int. Conf. Ternary and Multinary Compounds*, *Jpn. J. Appl. Phys.*, **32**, 359 (1993).

265. EXAFS Studies of Interfaces in ZnTe/CdSe Superlattices, K.M. Kemner, B.A. Bunker, H. Luo, N. Samarth, J.K. Furdyna, M.R. Weidmann, K.E. Newman, *Jpn. J. Appl. Phys.* **32**, Suppl. 32-2, 399 (1993).
266. Lattice Distortion and Ferroelectricity in IV-VI and II-VI Semiconductor Alloys, Zhihai Wang, Bruce A. Bunker, Robert A. Mayanovic, Ursula Debska, and Jacek K. Furdyna, *Jpn. J. Appl. Phys.* **32**, Suppl. 32-2, 673 (1993).
267. Femtosecond Scattering Dynamics in Magnetic Semiconductor Spin Superlattices, J. F. Smyth, D.A. Tulchinsky, D.D. Awschalom, N. Samarth, H. Luo, and J.K. Furdyna, *Phys. Rev. Letters* **71**, 601 (1993).
268. Magnetotransport and magneto-optical properties of δ -doped InSb, J. Heremans, D.L. Partin, D.T. Morelli, C.M. Thrush, G. Karczewski, and J.K. Furdyna, *J. Appl. Phys.* **74**, 1793 (1993).
269. Confinement of States Above Potential Barriers in Semiconductor Superlattices, H. Luo and J.K. Furdyna, *Modern Physics Letters B* **7**, 299 (1993).
270. Growth and Characterization of Digital Alloy Quantum Wells of CdSe/ZnSe, H. Luo, N. Samarth, A. Yin, A. Pareek, M. Dobrowolska, J.K. Furdyna, K. Mahalingam, N. Otsuka, F.C. Peiris, and J.R. Buschert, *Journal of Electronic Materials* **22**, 467 (1993).
271. Global and local stability of lattice-mismatched semiconductor interfaces, P. Boguslawski and J.K. Furdyna, *Semicond. Sci. Technol.* **8**, 1507 (1993).
272. Disorder induced by impurity diffusion in ZnSe-based superlattices and optical waveguides fabricated by disordering, T. Yokogawa, P.D. Floyd, J.L. Merz, H. Luo, and J.K. Furdyna, *J. Appl. Phys.* **74**, 3840 (1993).
273. Far-infrared magnetoabsorption studies of zero-gap $\text{Hg}_{1-x}\text{Mn}_x\text{Se}$ crystals, A.M. Witowski and J.K. Furdyna, *Phys. Rev. B* **48**, 10855 (1993).
274. Cyclotron resonance in epitaxial $\text{Bi}_{1-x}\text{Sb}_x$ films grown by molecular-beam epitaxy, J. Heremans, D.L. Partin, C.M. Thrush, G. Karczewski, M.S. Richardson, and J.K. Furdyna, *Phys. Rev. B* **48**, 11329 (1993).
275. Neutron-diffraction studies of zinc-blende MnTe epitaxial films and MnTe/ZnTe superlattices: The effect of strain and dilution on a strongly frustrated fcc antiferromagnet, T.M. Giebultowicz, P. Klosowski, N. Samarth, H. Luo, J.K. Furdyna, and J.J. Rhyne, *Phys. Rev. B* **48**, 12817 (1993).
276. Strain-engineered magnetic phenomena in MnSe/ZnSe, MnTe/ZnTe, and MnSe/ZnTe superlattices, T.M. Giebultowicz, H. Luo, N. Samarth, J.K. Furdyna, and J.J. Rhyne, *IEEE Transactions on Magnetics*, **29**, 3382 (1993). A review

277. Impurity induced disordering of CdZnSe/ZnSe strained layer superlattices by germanium diffusion, T. Yokogawa, P.D. Floyd, M.M. Hashemi, J.L. Merz, H. Luo, and J.K. Furdyna, *Appl. Phys. Lett.* **62**, 3488 (1993).
278. States confined in the barriers of type-III HgTe/CdTe superlattices, H. Luo, L.R. Ram-Mohan, G.L. Yang, Y. Xuan, and J.K. Furdyna, *Journal of Electronic Materials* **22**, 1103 (1993).
279. Spin dynamics in a diluted Heisenberg NN antiferromagnet on a HCP lattice: $\text{Zn}_{1-x}\text{Mn}_x\text{Se}$, T.M. Giebultowicz, J.A. Fernandez-Baca, R.M. Nicklow, J.K. Furdyna, and U. Debska, *J. Appl. Phys.* **73**, 5660 (1993).
280. Onset of helimagnetism in weakly strained epitaxial FCC antiferromagnet $\text{Cd}_{1-x}\text{Mn}_x\text{Se}$, T.M. Giebultowicz, V. Nunez, N. Samarth, H. Luo, and J.K. Furdyna, *J. Appl. Phys.* **73**, 6090 (1993).
281. Transmission and reflection of superconducting $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ films at 35 GHz, E.K. Moser, W.J. Tomasch, J.K. Furdyna, M.W. Coffey, and J.R. Clem, *IEEE Transactions on Applied Superconductivity* **3**, 1119 (1993).

1994

282. First Indications of Spontaneous Ordering in $\text{ZnSe}_{0.50}\text{Te}_{0.50}$ Alloy, H. Luo, N. Samarth, S.W. Short, S.H. Xin, J.K. Furdyna, P. Ahrenkiel, M.H. Bode, and M.M. Al-Jassim, *J. Vac. Sci. Technol. B* **12**, 1140 (1994).
283. Spin Beats and Dynamical Magnetization in Quantum Structures, J.J. Baumberg, D.D. Awschalom, N. Samarth, H. Luo, and J.K. Furdyna, *Phys. Rev. Letters* **72**, 717 (1994).
284. Zeeman Tuning of II-VI-Based Diluted Magnetic Semiconductor Superlattices, J.K. Furdyna, *Solid-State Electronics* **37**, 1065 (1994).
285. Microwave properties of $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ films at 35 GHz from magneto-transmission and magnetoreflexion measurements, E.K. Moser, W.J. Tomasch, M.J. McClorey, J.K. Furdyna, M.W. Coffey, C.L. Pettiette-Hall, and S.M. Schwarzbeek, *Phys. Rev. B* **49**, 4199 (1994).
286. Unusual elastic constants of cubic MnTe in strained-layer superlattices measured by X-ray diffraction, J.R. Buschert, F.C. Peiris, N. Samarth, H. Luo, and J.K. Furdyna, *Phys. Rev. B* **49**, 4619 (1994).
287. Optical properties of zinc-blende CdSe and $\text{Zn}_x\text{Cd}_{1-x}\text{Se}$ films grown on GaAs, Y.D. Kim, M.V. Klein, S.F. Ren, Y.C. Chang, H. Luo, N. Samarth, and J.K. Furdyna, *Phys. Rev. B* **49**, 7262 (1994).

288. Deep electron states in chlorine-doped ZnSe films grown by molecular-beam epitaxy, G. Karczewski, B. Hu, A. Yin, H. Luo, and J.K. Furdyna, *J. Appl. Phys.* **75**, 7382 (1994).
289. Transport and optical properties of holes in p-type zero-band-gap $\text{Hg}_{1-x}\text{Zn}_x\text{Te}/\text{CdTe}$ superlattices, J.B. Choi, K.H. Yoo, J.W. Han, T.W. Kang, J.R. Meyer, C.A. Hoffman, G. Karczewski, J.K. Furdyna, and J.P. Faurie, *Phys. Rev. B* **49**, 11060 (1994).
290. Nonlinear Optical and Transport Properties of CdMnSe and CdMnTe, B. Taheri, A. Munoz, R.C. Powell, J.J. Song, and J.K. Furdyna, *Proc. SPIE Mtg. on Nonlinear Optical Materials for Switching and Limiting*, SPIE, Bellingham, WA, Vol. **2229** (1994).
291. Hydrostatic Pressure Studies of Optical Transitions in the Photoluminescence Spectra of $\text{Zn}_{1-x}\text{Cd}_x\text{Se}$ Thick Epilayers and $\text{Zn}_{1-x}\text{Cd}_x\text{Se}/\text{ZnSe}$ Strained Layer Multiple Quantum Wells, M.S. Borley, R.J. Thomas, Meera Chandrasekhar, H.R. Chandrasekhar, L.R. Ram-Mohan, N. Samarth, H. Luo, and J.K. Furdyna, in *High Pressure Science and Technology, 1993* (AIP Conf. Proc.309).edited by S. C. Schmidt *et al.* (AIP Press, New York, 1994), p. 203.
292. Ultrafast faraday spectroscopy in magnetic semiconductor quantum structures, J.J. Baumberg, S.A. Crooker, D.D. Awschalom, N. Samarth, H. Luo, and J.K. Furdyna, *Phys. Rev. B* **50**, 7689 (1994).
293. Determination of the fundamental and split-off band gaps in zinc-blende CdSe by photomodulation spectroscopy, W. Shan, J.J. Song, H. Luo, and J.K. Furdyna, *Phys. Rev. B* **50**, 8012 (1994).
294. Femtosecond spin spectroscopy in magnetically tunable heterostructures, D.A. Tulchinsky, J.J. Baumberg, D.D. Awschalom, N. Samarth, H. Luo, and J.K. Furdyna, *Phys. Rev. B* **50**, 10851 (1994).
295. Atomic rearrangement at ZnTe/CdSe interfaces, K.M. Kemner, B.A. Bunker, A.J. Kropf, H. Luo, N. Samarth, J.K. Furdyna, M.R. Weidman, and K.E. Newman, *Phys. Rev. B* **50**, 14327 (1994).
296. Observation of above-barrier transitions in superlattices with small magnetically induced band offsets, N. Dai, L.R. Ram-Mohan, H. Luo, G.L. Yang, F.C. Zhang, M. Dobrowolska, and J.K. Furdyna, *Phys. Rev. B* **50**, 18153 (1994).
297. Ternary II-VI Semiconductors: Quantum Well Structures, M. Dobrowolska, J.K. Furdyna, and H. Luo, in *The Encyclopedia of Advanced Materials*, edited by D. Bloor, *et al.*, (Pergamon, 1994), p. 2790.
298. Optical confinement in ZnSe-based quantum well structure using impurity induced disordering, T. Yokogawa, P.D. Floyd, J.L. Merz, H. Luo, and J.K. Furdyna, *J. Crystal Growth* **138**, 564 (1994).

299. Femtosecond Coherent Spectroscopy of Bulk ZnSe and ZnCdSe/ZnSe Quantum Wells, A.J. Fischer, D.S. Kim, J. Hays, W. Shan, J.J. Song, D.B. Eason, J. Ren, J.F. Schetzina, H. Luo, J.K. Furdyna, Z.Q. Zhu, T. Yao, J.F. Klem, and W. Schäfer, *Phys. Rev. Lett.* **73**, 2368 (1994).
300. Antiferromagnetic Ordering and Interlayer Coupling in CdTe/MnTe Superlattices, T.M. Giebultowicz, W. Faschinger, V. Nunez, P. Klosowski, G. Bauer, H. Sitter, and J.K. Furdyna, *J. of Crystal Growth* **138**, 877 (1994). A review
301. Strain-induced helimagnetism, finite thickness effects, and interlayer coupling in magnetic semiconductor multilayers, T.M. Giebultowicz, H. Luo, N. Samarth, J.K. Furdyna, V. Nunez, J.J. Rhyne, W. Faschinger, H. Springholz, G. Bauer, and H. Sitter, *Physica B* **198**, 163 (1994). A review
302. Migration enhanced epitaxy and optical properties of CdSe/ZnSe digital alloy quantum wells, S.W. Short, H. Luo, A. Yin, A. Pareek, M. Dobrowolska, and J.K. Furdyna, *J. Vac. Sci. Technol.* **B12**, 1143 (1994).
303. Pressure induced phase transition of $Zn_{1-x}Co_xSe$, S.B. Qadri, E.F. Skelton, A.W. Webb, J.Z. Hu, J.K. Furdyna, *High-Pressure Science and Technology - 1993*. AIP Conference Proceedings, no. 309, pt. 1, p. 347 (1994).
304. Femtosecond spin dynamics in magnetically tunable heterostructures, D.A. Tulchinsky, J.F. Smyth, D.D. Awschalom, N. Samarth, H. Luo, and J.K. Furdyna, *Physica B* **194-196**, 1305 (1994).
305. Reflectivity, transport and magneto-optical studies of holes in the p-type HgZnTe/CdTe superlattice, J.B. Choi, J.R. Meyer, C.A. Hoffman, G. Karczewski, J.K. Furdyna, K.H. Yoo, and J.P. Faurie, *Surface Science* **305**, 285 (1994).
306. CdZnSe.ZnSe strained layer superlattices disordered by germanium diffusion, T. Yokogawa, P.D. Floyd, J.L. Merz, H. Luo, and J.K. Furdyna, *Journal of Electronic Materials* **23**, 283 (1994).
307. Indium donor complexes with cation vacancies in CdTe and ZnSe, J.W. Griffith, R. Lundquist, R. Platzner, J.A. Gardner, G. Karczewski, and J.K. Furdyna, *Materials Science Forum* **143-147**, 405 (1994).
308. DX-like centers in II-VI diluted magnetic semiconductors, T. Wojtowicz, G. Karczewski, N.G. Semaltianos, S. Kolesnik, I. Miotkowski, M. Dobrowolska, and J.K. Furdyna, *Materials Science Forum* **143-147**, 1203 (1994).

1995

309. Recent Results on ZnSe-Based Vertical-Cavity Surface Emitting Lasers Operating in the Blue, P.D. Floyd, J.K. Furdyna, H. Luo, J.L. Merz, Y. Yamada, and T. Yokogawa, *Phys. Stat. Sol. (b)*. **187**, 355 (1995).

310. Precise In-Situ Measurements of Growth Rate and Surface Coverage in Migration Enhanced Epitaxy of II-VI Semiconductors, H. Luo, S.W. Short, S.H. Xin, and J.K. Furdyna, Proc. 22nd Int. Conf. on the Physics of Semiconductors, Vancouver, 1994, edited by D. J. Lockwood (World Scientific, Singapore, 1995), p. 664.
311. Helical Spin Ordering and Interlayer Correlations in Strained-Layer MnTe/CdTe Superlattices, V. Nunez, T.M. Giebultowicz, and J.K. Furdyna, Proc. 22nd Int. Conf. on the Physics of Semiconductors, Vancouver, 1994, edited by D.J. Lockwood (World Scientific, Singapore, 1995), p.2521.
312. Photoluminescence Under Pressure and Annealing of Nitrogen-Doped ZnSe, A.L. Chen, W. Walukiewicz, E.E. Haller, H. Luo, G. Karczewski, and J.K. Furdyna, Proc. 22nd Int. Conf. on the Physics of Semiconductors, Vancouver, 1994, edited by D. J. Lockwood (World Scientific, Singapore, 1995), p. 2471.
313. Quasilocalization of Above Barrier States in Diluted Magnetic Semiconductor Heterostructures, H. Luo, M. Dobrowolska, and J.K. Furdyna, Materials Science Forum **182-184**, 607 (1995).
314. Optical Properties of Diluted Magnetic Semiconductor Quantum Structures, M. Dobrowolska, H. Luo, and J.K. Furdyna, Acta Phys. Polonica A **87**, 95 (1995).
315. Exciton Binding Energy in Extremely Shallow Quantum Wells, J. Kossut and J.K. Furdyna, Acta Phys. Polonica A **87**, 528 (1995).
316. Reduction of deep defect concentration in chlorine-doped ZnSe by after-growth thermal treatment, B. Hu, G. Karczewski, H. Luo, U. Bindley, and J.K. Furdyna, J. Appl. Phys. **77**, 2026 (1995).
317. Optimization of Ohmic Contacts to ZnSe by Parabolic Grading of ZnSe_{1-x}Te_x Composition, G.L. Yang, H. Luo, L. Lewandowski, and J.K. Furdyna, Phys. Stat. Sol. (b).**187**, 435 (1995).
318. Infrared observation of transverse and longitudinal polar optical modes of semiconductor films: normal and oblique incidence, M. Dean Sciacca, A.J. Mayur, Eunsoon Oh, A.K. Ramdas, S. Rodriguez, J.K. Furdyna, M.R. Melloch, C.P. Beetz, and W. S. Yoo, Phys. Rev. B **51**, 7744 (1995).
319. Self-organized formation of compositionally modulated ZnSe_{1-x}Te_x superlattices, S.P. Ahrenkiel, S.H. Xin, P.M. Reimer, J.J. Berry, H. Luo, S.W. Short. M. Bode, M. Al-Jassim, J.R. Buschert, and J.K. Furdyna, Phys. Rev. Letters **75**, 1586 (1995).
320. Quantum-confined Stark effect in ZnSe/Zn_{1-x}Cd_xSe quantum wells, S.W. Short, S.H. Xin, A. Yin, H. Luo, M. Dobrowolska, and J.K. Furdyna, Appl. Phys. Letters **67**, 503 (1995).

321. Optically pumped CdZnSe/ZnSe blue-green vertical cavity surface emitting lasers, P.D. Floyd, J.L. Merz, H. Luo, J.K. Furdyna, T. Yokogawa, and Y. Yamada, *Appl. Phys. Lett.* **66**, 2929 (1995).
322. The II-VI semiconductor blue-green laser: challenges and solutions, H. Luo and J.K. Furdyna, *Semiconductor Science and Technology* **10**, 1041 (1995).
323. Electron paramagnetic resonance of Mn⁺⁺ in strained layer semiconductor superlattices, M. Qazzaz, G. Yang, S.H. Xin, L. Montes, H. Luo, and J.K. Furdyna, *Solid State Commun.* **96**, 405 (1995).
324. Deep-level defects responsible for persistent photoconductivity in Ga-doped Cd_{1-x}Mn_xTe, N.G. Semaltianos, G. Karczewski, B. Hu, T. Wojtowicz, and J.K. Furdyna, *Phys. Rev. B* **51**, 17499 (1995).
325. Accurate determination of surface coverage in migration enhanced epitaxy of compound semiconductors, J.K. Furdyna, H. Luo, S.W. Short, and S.H. Xin, *Proc. SPIE Mtg. on Optoelectronic Integrated Circuit Materials, Physics, and Devices*, SPIE, Bellingham, WA, Vol. **2397** (1995), p. 575.
326. Investigation of strain in II-VI semiconductor superlattices using electron paramagnetic resonance of Mn⁺⁺, J.K. Furdyna, M. Qazzaz, G. Yang, L. Montes, S.H. Xin, and H. Luo, *Acta Physica Polonica A* **88**, 607 (1995).
327. Spatial dependence of exchange interaction in Heisenberg antiferromagnet Zn_{1-x}Mn_xTe, Q. Shen, H. Luo, and J.K. Furdyna, *Phys. Rev. Lett.* **75**, 2590 (1995).
328. Helical spin ordering and interlayer correlations in MnTe/CdTe superlattices, V. Nunez, T.M. Giebultowicz, W. Faschinger, G. Bauer, H. Sitter, and J.K. Furdyna, *J. Magnetism and Magnetic Materials* **140-144**, 633 (1995).
329. Interlayer coupling in (111).EuTe/PbTe AFM multilayers, T.M. Giebultowicz, V. Nunez, G. Springholz, G. Bauer, J. Chen, M.S. Dresselhaus, and J.K. Furdyna, *J. Magnetism and Magnetic Materials* **140-144**, 635 (1995).
330. Some optical and thermal properties of Cd_{0.9}Mn_{0.1}Te, R. Weil, O. Yampolsky, J.K. Furdyna, R. Deljouravesh, and M. Steinitz, *J. Appl. Phys.* **78**, 6330 (1995).
331. Microcharacterization of Composition Modulations in Epitaxial ZnSe_{1-x}Te_x, S.P. Ahrenkiel, M.H. Bode, M.M. Al-Jassim, H. Luo, S. H. Xin, and J.K. Furdyna, *J. Electronic Materials* **24**, 319 (1995).
332. Reflectivity of diluted magnetic semiconductor epitaxial structures in the Voigt configuration, R. Brazis, R. Narkowicz, L. Safonova, J.K. Furdyna, *Translated in Lithuanian Physics Journal* **35**, 507 (1995).

333. Investigation of magnetic structure of MnTe/CdTe multilayers by neutron diffraction, V. Nunez, T.M. Giebultowicz, W. Faschinger, G. Bauer, H. Sitter, and J.K. Furdyna, Prof. Int. Symposium on Neutron Scattering in Materials Science II, edited by D.A. Neumann, T.P. Russell, B.J. Wuensch, p. 589 (1995).
334. NMR study of impurity electronic structure and dynamics, W.W. Warren, Jr., S.E. Fuller, A. Goebel, U. Bindley, and J.K. Furdyna, Materials Science Forum, **196-201**, 173 (1995).
335. Reflectivity of diluted magnetic semiconductor epitaxial structures in the Voigt configuration, R. Brazis, R. Narkowicz, L. Safonova, and J.K. Furdyna, Lithuanian Physics Journal **35**, 584 (1995).
336. Nonlinear dynamics of charge carriers in layered CdSe/ZnTe structures, J. Vaitkus, I. Mikulskas, V. Netiksis, M. Petrauskas, S. Juodkazis, and J.K. Furdyna, Lithuanian Physics Journal **35**, 492 (1995).
337. Annealing of nitrogen-doped ZnSe at high pressures: toward suppression of native defect formation, A.L. Chen, W. Walukiewicz, E.E. Haller, H. Luo, G. Karczewski, and J.K. Furdyna, Proceedings of the Twenty-First International Symposium on Compound Semiconductors, (San Diego, 18-22 Sept. 1994), edited by H. Goronkin and U. Mishra, (1995), p. 275.
338. Disorder of CdZnSe/ZnSe strained layer superlattices by ion implantation, T. Yokogawa, J. Merz, H. Luo, J.K. Furdyna, S. Lau, M. Kuttler, and D. Bimberg, Jpn. J. Appl. Phys. **34**, 1159 (1995).
339. A comparative study of ordered alloy and random alloy quantum wells of $Zn_{1-x}Cd_xSe/ZnSe$ under pressure, E.M. Baugher, M. Chandrasekhar, H.R. Chandrasekhar, H. Luo, J.K. Furdyna, and L.R. Ram-Mohan, J. Phys. Chem. Solids **56**, 323 (1995).
340. Photoluminescence of donor-doped ZnSe films grown by molecular beam epitaxy, G. Karczewski, B. Hu, A. Yin, H. Luo, M. Dobrowolska, and J.K. Furdyna, Acta Phys. Pol. A **87**, 245 (1995).

1996

341. Structural characterization of composition-modulated $ZnSe_{1-x}Te_x$ epitaxial films, S.P. Ahrenkiel, M.H. Bode, M.M. Al-Jassim, H. Luo, S.H. Xin, and J.K. Furdyna, Proc. 1995 Fall Mtg. of the MRS (Mat. Res. Soc., Pittsburgh, 1996).
342. Observation of the Quantum-Confined Stark Effect in ZnSe/ZnCdSe Quantum Well Systems, S.W. Short, S.H. Xin, A. Yin, H. Luo, M. Dobrowolska, and J.K. Furdyna, J. Electronic Materials **25**, 253 (1996).

343. Non-Saturating Giant Zeeman Shift and Anomalous PL Intensity in $\text{Zn}_{1-x}\text{Mn}_x\text{Se}$ at High Magnetic Fields, T. Schmiedel, A. Pareek, S. Lee, M. Dobrowolska, and J.K. Furdyna, Proc. 12th Int'l. Conf. on the Application of High Magnetic Fields in Semiconductor Physics, Würzburg 1996 (in press).
344. Magneto-optical study of inter-well coupling in double quantum wells using diluted magnetic semiconductors, S. Lee, M. Dobrowolska, J.K. Furdyna, and L.R. Ram-Mohan, Phys. Rev. B **54**, 16939 (1996).
345. Formation of Self-Assembling CdSe Quantum Dots on ZnSe by Molecular Beam Epitaxy, S.H. Xin, P.D. Wang, A. Yin, M. Dobrowolska, J.L. Merz, and J.K. Furdyna, Appl. Phys. Lett. **69**, 3884 (1996).
346. High Quality CdTe/Cd_{1-x}Mg_xTe Quantum Wells Grown on GaAs (100).and (111).Substrate by Molecular Beam Epitaxy, S.H. Xin, B.H. Hu, S.W. Short, U. Bindley, A. Yin, M. Dobrowolska, and J.K. Furdyna, J. Vac. Sci. Technol. B **14**, 2374 (1996).
347. Semiconductors, Diluted Magnetic, J.K. Furdyna, M. Dobrowolska, and H. Luo, Encyclopedia of Applied Physics, Vol. 17 (VCH Publishers, New York, 1996), p. 373.
348. Photoluminescence blueshift induced by reactive ion etching of strained CdZnSe/ZnSe quantum well structures, L.M. Sparing, P.D. Wang, S.H. Xin, S.W. Short, S.S. Shi, J.K. Furdyna, J.L. Merz, G.L. Snider, J. Vac. Sci. Technol. B **14**, 3654 (1996).
349. Magnetic phase diagram of zinc-blende Cd_{1-x}Mn_xSe, M. Sawicki, J.K. Furdyna, H. Luo, Acta Physica Polonica A **90**, 923 (1996).

1997

350. Spectroscopic Ellipsometric Characterization of Undoped ZnTe Films Grown on GaAs, Y.D. Kim, S.G. Choi, M.V. Klein, S.D. Yoo, D.E. Aspnes, S.H. Xin, and J.K. Furdyna, Appl. Phys. Lett. **70**, 610 (1997).
351. X-ray study of atomic correlations in $\text{Zn}_{0.5}\text{Cd}_{0.5}/\text{Se}_{0.5}\text{Te}_{0.5}$ epitaxial thin films, Q. Lu, B. Bunker, H. Luo, A.J. Kropf, K.M. Kemner, and J.K. Furdyna, Phys. Rev. B **55**, 9910 (1997).
352. Excitons in extremely shallow quantum wells, J. Kossut, M. Dobrowolska, and J.K. Furdyna, Phys. Rev. B **56**, 9775 (1997).
353. Ion beam mixing in ZnSe/ZnCdSe strained layer structures, R. Morton, F. Deng, S.S. Lau, S.H. Xin, J.K. Furdyna, J.W. Hutchins, B.J. Skromme, and J.W. Meyer, Nucl. Instrum. Methods in Phys. Research B **118**, 704 (1997).

354. Spectroscopic ellipsometric study of $\text{Zn}_{1-x}\text{Mn}_x\text{Te}$ films grown on GaAs, S.G. Choi, Y.D. Kim, M.V. Klein, S.D. Yoo, D.E. Aspnes, S.H. Xin, and J.K. Furdyna, *J. Korean Phys. Soc.* **31**, 202 (1997).
355. Self-assembled growth of II-VI quantum dots, J.K. Furdyna, S. Lee, I. Daruka, C.S. Kim, A.-L. Barabasi, M. Dobrowolska, and J.L. Merz, *Nonlinear Optics* **18**, 85 (1997).

1998

356. Magnetoluminescence Study of a Two-Dimensional Electron Gas Confined in Diluted Magnetic Semiconductor Quantum Wells, M.S. Sahib, G. Kioseoglou, H.C. Chang, H. Luo, A. Petrou, M. Dobrowolska, J.K. Furdyna, and A. Twardowski, *Phys. Rev. B* **57**, 6278 (1998).
357. Ion induced damage in strained CdZnSe/ZnSe quantum well structures, L.M. Sparing, P.D. Wang, A.M. Mintairov, S. Lee, U. Bindley, C.H. Chen, S.S. Shi, J.K. Furdyna, J.L. Merz, and G.L. Snider, *J. Vac. Sci. Technol. B* **15**, 2652 (1998).
358. Interband Magnetoabsorption in Strained Epitaxially Grown ZnTe and ZnSe, S. Lee, F. Michl, U. Rössler, M. Dobrowolska, and J.K. Furdyna, *Phys. Rev. B* **57**, 9695 (1998).
359. Semiconductor superlattices with small band offsets, G. Yang, L.A. Lewandowski, J.K. Furdyna, and L.R. Ram-Mohan, *Acta Phys. Polon. A* **93**, 567 (1998).
360. Self-organized growth, ripening, and optical properties of wide-gap II-VI quantum dots, J.L. Merz, S. Lee, and J.K. Furdyna, *J. Crystal Growth* **184/185**, 228 (1998).
361. Long-range antiferromagnetic couplings in [ZnTe/MnTe] superlattices, J. Lin, J.J. Rhyne, J.K. Furdyna, and T.M. Giebultowicz, *J. Appl. Phys.* **83**, 6554 (1998).
362. Anomalous antiferromagnetic coupling in [ZnTe/MnTe] superlattices, J.J. Rhyne, J. Lin, J.K. Furdyna, and T.M. Giebultowicz, *J. Magn. Materials* **177/181**, 1195 (1998).
363. Four-wave mixing in CdMnTeSe:In crystals, B. Koziarska-Glinka, T. Wojtowicz, I. Miotkowski, J.K. Furdyna, and A. Suchocki, *J. Cryst. Growth* **185**, 696 (1998).
364. Magnetoexcitons and Landau levels in strained ZnTe and ZnSe layers, S. Lee, F. Michl, U. Rossler, M. Dobrowolska, and J.K. Furdyna, *J. Cryst. Growth* **185**, 1105 (1998).
365. Spectroscopic characterization of the evolution of self-assembled CdSe quantum dots, J.C. Kim, H. Rho, L.M. Smith, H.E. Jacksono, S. Lee, M. Dobrowolska, J.L. Merz, and J.K. Furdyna, *Appl. Phys. Lett.* **73**, 3399 (1998).

366. Magnons in cubic MBE-grown $A_{1-x}M_xTe$ layers ($A = Cd, Zn, Mg$), W. Szuskiewicz, B. Hennion, M. Jouanne, J.F. Morhange, E. Dynowska, E. Janik, T. Wojtowicz, M Zielinski, and J.K. Furdyna, *Acta Phys. Pol. A* **94**, 583 (1998).
367. Dynamics of ripening of self-assembled II-VI semiconductor quantum dots, S. Lee, I. Daruka, C.S. Kim, A.-L. Barabasi, J.L. Merz, and J.K. Furdyna, *Phys. Rev. Lett.* **81**, 3479 (1998).
368. MnSe: Rock salt versus zincblende structure, H.J. Kim, R. Vogelgesang, A.K. Ramdas, F.C. Peiris, and J.K. Furdyna, *Phys. Rev. B* **58**, 6700 (1998).
369. A prism coupler technique for characterizing thin film II-VI semiconductor systems, F.C. Peiris, S. Lee, U. Bindley, and J.K. Furdyna, *J. Appl. Phys.* **84**, 5194-5197 (1998).
370. Diluted Magnetic Semiconductor Thin Films and Multilayers, J.K. Furdyna, In "High Density Magnetic Recording and Integrated Magneto-Optics: Materials and Devices," Materials Research Society Proceedings, Vol. 517 (Materials Research Society, Warrendale, PA, 1998).

1999

371. Exchange-interaction-induced shift of Mn^{2+} EPR in II-VI semiconductors, G. Yang, J.K. Furdyna, and H. Luo, *Phys. Rev. B* **59**, 2768 (1999).
372. Characterization of MBE-grown II-VI semiconductor distributed Bragg reflectors, F.C. Peiris, S. Lee, U. Bindley, J.K. Furdyna, A.M. Stuckey, M.R. Martin, and J.R. Buschert, *J. Crystal Growth* **202**, 1040-1043 (1999).
373. Wave function mapping in multiple quantum wells using diluted magnetic semiconductors, S. Lee, M. Dobrowolska, J.K. Furdyna, and L.R. Ram-Mohan *Phys. Rev. B* **59**, 10302-10308 (1999).
374. Wavelength dependence of the indices of refraction of MBE-grown ZnMgSe and ZnCdSe thin films measured by two complementary techniques, F.C. Peiris, S. Lee, U. Bindley, and J.K. Furdyna, *J. Appl. Phys.* **86**, 918-922 (1999).
375. Refractive index measurements of ZnSe-based ternary epitaxial layers grown by molecular beam epitaxy on GaAs (100), F.C. Peiris, S. Lee, U. Bindley, and J.K. Furdyna, *J. Vac. Sci. Technol. B* **17**, 1214-1217 (1999).
376. II-VI semiconductor distributed Bragg reflectors: fabrication and characterization, S. Lee, F.C. Peiris, U. Bindley, and J.K. Furdyna, *Proceedings of Conference "Frontiers in semiconductor lasers and quantum dot physics," IAPS press, La Jolla, CA, 1999. (in press)*

377. Optical transitions in semiconductor superlattices with a small band offset in one band and large in the other, G. Yang, E. Rzepniewski, J.K. Furdyna, and L.R. Ram-Mohan, *Semicond. Sci. Technol.* **14**, 454-460 (1999).
378. Molecular-beam-epitaxy-grown ZnSe/ZnTe high-reflectivity distributed Bragg reflectors, F.C. Peiris, S. Lee, U. Bindley, and J.K. Furdyna, *Semicond. Sci. Technol.* **14**, 878-882 (1999).
379. ZnMgSe/ZnCdSe and ZnMgSe/ZnSeTe distributed Bragg reflectors grown by molecular beam epitaxy, F.C. Peiris, S. Lee, U. Bindley, and J.K. Furdyna, *J. Appl. Phys.* **86**, 719-724 (1999).
380. Quantum dot exciton dynamics through a nano-aperture: evidence for two types of confined states, L.M. Robinson, J.C. Kim, H. Rho, H.E. Jackson, L.M. Smith, S. Lee, M. Dobrowolska, and J.K. Furdyna, *Phys. Rev. Lett.* **83**, 2797-2800 (1999).
381. Temperature-dependent micro-photoluminescence of individual quantum dots, J.C. Kim, H. Rho, L.M. Smith, H.E. Jackson, S. Lee, M. Dobrowolska, and J.K. Furdyna, *Appl. Phys. Lett.* **75**, 214-216 (1999).
382. NMR study of bistable defects under *in situ* illumination, M. Shroyer, J.K. Furdyna, A.I. Ryskin, and W.W. Warren, *Physica B* **274** (1999).
383. Optical spectra of wide band gap Be_{1-x}Zn_{1-x}Se alloys, A.M. Mintairov, S. Raymond, J.L. Merz, F.C. Peiris, S. Lee, U. Bindley, J.K. Furdyna, A.M. Mintairov, V.G. Melamine, and K. Sadchikov, *Semiconductors* **33**, 1021-1023 (1999).
384. XAFS studies of interfaces in MnSe/ZnTe superlattices, A.J. Kropf, B.A. Bunker, and J.K. Furdyna, *J. Synchrotron Radiat.* **6**, 370-372 (1999).
385. Comment on "Dynamics of ripening of self-assembled II-VI semiconductor quantum dots," S. Lee, I. Daruka, C.S. Kim, L.-A. Barabasi, J.K. Furdyna, and J.L. Merz, *Phys. Rev. Lett.* **83**, 240-240 (1999).

2000

386. Mapping of electronic wave functions in II-VI semiconductor quantum wells via Mn⁺⁺ electron paramagnetic resonance, G. Yang, J.K. Furdyna, and H. Luo, *Phys. Rev. B* **62**, 4226-4229 (2000).
387. Controlled growth of ZnSeTe superlattices with sinusoidal compositional modulation, S. Lee, J.K. Furdyna, P.M. Reimer, and J.R. Buschert, *J. Vac. Sci. Technol. B* **18**, 1518-1521 (2000).

388. Precise and efficient *ex situ* technique for determining compositions and growth rates in MBE-grown semiconductor alloys, F.C. Peiris, S. Lee, U. Bindley, and J.K. Furdyna, *J. Vac. Sci. Technol. B* **18**, 1443-1447 (2000).
389. Sinusoidally modulated $\text{ZnSe}_x\text{Te}_{1-x}$ superlattices: Fabrication and structural studies, P.M. Reimer, J.R. Buschert, S. Lee, and J.K. Furdyna, *Phys. Rev. B* **61**, 8388-8392 (2000).
390. Magnetic-field-induced substructures in multiple quantum wells consisting of magnetic and non-magnetic semiconductor layers, S. Lee, M. Dobrowolska, J.K. Furdyna, and L.R. Ram-Mohan, *Phys. Rev. B* **61**, 2120-2127 (2000).
391. Origin of two types of excitons in CdSe dots on ZnSe, S. Lee, J.C. Kim, H. Rho, C.S. Kim, L.M. Smith, H.E. Jackson, J.K. Furdyna, and M. Dobrowolska, *Phys. Rev. B* **61**, R2405-R2408 (2000).
392. Band structure and optical properties of sinusoidal superlattices: $\text{ZnSe}_x\text{Te}_{1-x}$, G. Yang, S. Lee, and J.K. Furdyna, *Phys. Rev. B* **61**, 10978-10984 (2000).
393. Visible-near ultraviolet ellipsometric study of $\text{Zn}_{1-x}\text{Mg}_x\text{Se}$ and $\text{Zn}_{1-x}\text{Be}_x\text{Se}$ alloys, H. Lee, In-Young Kim, J. Powell, D.E. Aspnes, S. Lee, F. Peiris, and J.K. Furdyna, *J. Appl. Phys.* **88**, 878-882 (2000).
394. Ferromagnetic Semiconductors and their Nanostructures: New Opportunities and Challenges, J.K. Furdyna, P. Schiffer, Y. Sasaki, S.J. Potashnik, and X.Y. Liu, in *Optical Properties of Semiconductor Nanostructures*, NATO Science Series, Vol. 81, edited by M.L. Sadowski, M. Potemski, and M. Grynberg (Flower, Dordrecht, 2000), p. 211-224.
395. CdSe quantum dots in a $\text{Zn}_{1-x}\text{Mn}_x\text{Se}$ Matrix: new effects due to the presence of Mn, C.S. Kim, M. Kim, S. Lee, J. Kossut, J.K. Furdyna, and M. Dobrowolska, *J. Crystal Growth* **214/215**, 395-399 (2000).
396. Band offset determination in ZnSe-based heterostructures involving ZnBeSe, M. Kim, C.S. Kim, S. Lee, J.K. Furdyna, and M. Dobrowolska, *J. Crystal Growth* **214/215**, 325-329 (2000).
397. Optical observation of quantum-dot formation in sub-critical CdSe layers grown On ZnSe, C.S. Kim, M. Kim, S. Lee, J.K. Furdyna, M. Dobrowolska, J.C. Kim, H. Rho, L.M. Smith, and H.E. Jackson, *J. Crystal Growth* **214/215**, 761-764 (2000).
398. Fabrication and optical properties of ZnSeTe superlattices with sinusoidal compositional modulation, S. Lee, G. Yang, X. Liu, U. Bindley, M. Dobrowolska, J.K. Furdyna, P.M. Reimer, and J.R. Buschert, *J. Crystal Growth* **214/215**, 25-29 (2000).

399. Phonons and exciton recombination in CdSe/ZnSe self-assembled quantum dots, H. Rho, L.M. Robinson, L.M. Smith, H.E. Jackson, S. Lee, M. Dobrowolska, and J.K. Furdyna, *Appl. Phys. Lett.* **77**, 1813-1815 (2000).
400. Precise measurements of the dispersion of the index of refraction for Cd_{1-x}Zn_xTe alloys, F.C. Peiris, S. Lee, U. Bindley, *J. Electronic Materials* **29**, 798-803 (2000).
401. Evidence of 2D precursors and interdiffusion in the evolution of self-assembled CdSe quantum dots on ZnSe, C.S. Kim, M. Kim, S. Lee, J.K. Furdyna, M. Dobrowolska, H. Rho, L.M. Smith, H.E. Jackson, E.M. James, Y. Xin, and N.D. Browning, *Phys. Rev. Lett.* **85**, 1124-1127 (2000).
402. Raman scattering from CdSe/ZnSe self-assembled quantum dots structures, H. Rho, H.E. Jackson, S. Lee, M. Dobrowolska, and J.K. Furdyna, *Phys. Rev. B* **61**, 15641 (2000).
403. Enhancement of spin correlations in ZnTe/MnTe superlattices by Cl-doping, L.E. Stumpe, J.J. Rhyne, H. Kaiser, S. Lee, U. Bindley, and J.K. Furdyna, *J. Appl. Phys.* **87**, 6460-6462 (2000).
404. Effect of ion-induced damage on carrier lifetimes in strained CdZnSe/ZnSe quantum wells, L.M. Sparing, A.M. Mintairov, J.H. Hodak, I.B. Martini, G.V. Hartland, U. Bindley, S. Lee, J.K. Furdyna, J.L. Merz, and G.L. Snider, *J. Appl. Phys.* **87**, 3063-3067 (2000).
405. Optical study of ZnSe_xTe_{1-x} alloys using spectroscopic ellipsometry, Hosun Lee, S.M. Kim, B.Y. Seo, S.H. Choi, S. Lee, and J.K. Furdyna, *Appl. Phys. Lett.* **77**, 2997 (2000).
406. Distributed Bragg reflectors for visible range applications based on (Zn,Cd,Mg)Se lattice matched to Imps, S. P. Guo, O. Maksimov, M.C. Tamargo, F.C. Peiris, and J.K. Furdyna, *Appl. Phys. Lett.* **77**, 4107 (2000).
407. Dielectric function and bowing parameter of Zn_{1-x}Mg_xSe and Zn_{1-x}Be_xSe, Hosun Lee, In-Young Kim, J. Powell, D.E. Aspness, S. Lee, F. Peiris, and J.K. Furdyna, *J. Korean Phys. Soc.* **37**, 1012 (2000).
408. Using exciton dynamics to probe the internal structure of CdSe/ZnSe self-assembled quantum dots, L.M. Robinson, H. Rho, H.E. Jackson, *et al.* *Phys. Status Solidi B* **221** 55-58 (2000).

2001

409. Distributed Bragg reflectors based on (Zn, Cd, Mg)Se for use in the visible spectral range, O. Maksimov, S.P. Guo, L. Zeng, *et al.*, *J. Appl. Phys.* **89**, 2202-2207 (2001).

410. Enhancement of Zeeman splitting in double quantum wells containing ultrathin magnetic semiconductor layers, S. Lee, M. Dobrowolska, J.K. Furdyna, and L.R. Ram-Mohan, *Physica E* **10**, 300-304 (2001).
411. Enhancement of direct (type-I) excitonic transitions in ZnTe/CdSe-based type-II Bragg confining structures, Y. Um, S. Lee, X. Liu, and J.K. Furdyna, *J. Appl. Phys.* **89**, 5460-5464 (2001).
412. The 2s exciton in intermediate dimensionality structures, M. Syed, G. Yang, J.K. Furdyna, and M. Dobrowolska, *Superlatt. Microstruct.* **29**, 247-257 (2001).
413. Interface phonons in CdSe/ZnSe self-assembled quantum dot structures, H. Rho, L.M. Smith, H.E. Jackson, *et al.*, *Phys. Status Solidi B* **224**, 165-168 (2001).
414. Indices of refraction and their dispersion characteristics of ZnMgCdSe thin films grown by molecular beam epitaxy, F.C. Peiris, J.K. Furdyna, S.P. Guo, *et al.* *J. Appl. Phys.* **89**, 3748-3752 (2001).
415. Electron paramagnetic resonance of Mn in $\text{In}_{1-x}\text{Mn}_x\text{As}$ epilayers, J. Szczytko, A. Twardowski, M. Palczewska, *et al.* - art. no. 085315. *PHYS REV B* 6308 (8): 5315-+ FEB 15 2001.
416. High reflectivity symmetrically strained $\text{Zn}_x\text{Cd}_y\text{Mg}_{1-x-y}\text{Se}$ -based distributed Bragg reflectors for current injection devices, S.P. Maksimov, F. Guo, F. Fernandez, M.C. Tamargo, F.C. Peiris, and J.K. Furdyna, *J. Vac. Sci. Technol. B* **19**, 1479-1482 (2001).
417. Determination of the indices of refraction of molecular-beam-epitaxy-grown ZnSe/ZnCdSe multiple-quantum-well structures, F.C. Peiris, U. Bindley, J.K. Furdyna, *J. Vac. Sci. & Technol. B* **19**, 1497-1500 (2001).
418. Internal self-ordering in $\text{In}(\text{Sb},\text{As})$, $(\text{In},\text{Ga})\text{Sb}$, and $(\text{Cd},\text{Zn},\text{Mn})\text{Se}$ nano-agglomerates/quantum dots, P. Mock, T. Topuria, N.D. Browning, G.R. Booker, N.J. Mason, R.J. Nicholas, M. Dobrowolska, S. Lee, J.K. Furdyna, *Appl. Phys. Lett.* **79**, 946-948 (2001).
419. Ellipsometric study of sinusoidally modulated ZnSeTe superlattices, H. Lee, S. Lee, J.K. Furdyna, *Appl. Phys. Lett.* **79**, 737-739 (2001).
420. Determination of the dispersion of the index of refraction and the elastic moduli for molecular-beam-epitaxy-grown $\text{Zn}_{1-x}\text{Be}_x\text{Se}$ alloys, F.C. Peiris, U. Bindley, J.K. Furdyna, H. Kim, A.K. Ramdas, M. Grimsditch, *Appl. Phys. Lett.* **79**, 473-475 (2001).

421. Optical spectroscopy on individual CdSe/ZnMnSe quantum dots, G. Bacher, H. Schomig, M.K. Welsch, S. Zaitsev, V.D. Kulakovskii, A. Forchel, S. Lee, M. Dobrowolska, J.K. Furdyna, B. Konig, and W. Ossau, *Appl. Phys. Lett.* **79**, 524-526 (2001).
422. Red-green-blue light emitting diodes and distributed Bragg reflectors based on ZnCdMgSe lattice-matched to InP, M.C. Tamargo, S.P. Guo, O. Maksimov, Y.C. Chen, F.C. Peiris, and J.K. Furdyna, *J. Crystal Growth* **227**, 710-716 (2001).
423. Optical properties of molecular beam epitaxy-grown ZnSexTe1-xII-VI semiconductor alloys, F.C. Peiris, U. Bindley, J.K. Furdyna, *J. Electronic Materials* **30**, 677-681 (2001).
424. Self-ordered CdSe quantum dots in ZnSe and (Zn,Mn)Se matrices assessed by transmission electron microscopy and photoluminescence spectroscopy, P. Mock, T. Topuria, N.D. Browning, L. Titova, M. Dobrowolska, S. Lee, J.K. Furdyna, *J. Electronic Materials* **30**, 748-755 (2001).
425. Enhancement of the type-I transition in type-II ZnTe/CdSe Bragg confining structures, Y.H. Um, S. Lee, X. Liu, J.K. Furdyna, *J. Korean Phys. Soc.* **39**, 429-432 (2001).
426. Intensity variation of excitons in magnetically tunable double quantum wells, S. Lee, G. Yang, M. Dobrowolska, J.K. Furdyna, *J. Korean Phys. Soc.* **39**, 447-450 (2001).
427. Enhancement of interlayer spin coupling in ZnTe/MnTe superlattices by Cl doping, J.J. Rhyne, L.E. Stumpe, H. Kaiser, S. Lee, U. Bindley, J.K. Furdyna, *J. Mag. Mat.* **226**, 1808-1810, Part 2, Special Issue (MAY 2001).
428. Enhancement of magnetic coercivity and ferromagnetic transition temperature by proximity effects in the GaMnAs-ZnMnSe multilayer system, X. Liu, Y. Sasaki, and J.K. Furdyna, *Appl. Phys. Lett.* **79**, 2414 (2001).
429. "Probing CdSe/ZnSe self-assembled quantum dots by cw and time-resolved photoluminescence," H. Rho, L.M. Robinson, N. Mukolobwicz, L.M. Smith, H.E. Jackson, S. Lee, M. Dobrowolska, and J.K. Furdyna, *Physica E: Low-dimensional Systems and Nanostructures* **11**, 2-3, 59-62 (2001).

2002

430. Investigation of nanoscale structure in digital layers of Mn/GaAs and MnGa/GaAs, G. Kioseoglou, S. Kim, Y. L. Soo, X. Chen, H. Luo, Y. H. Kao, Y. Sasaki, X. Liu, and J. K. Furdyna, *Appl. Phys. Lett.* **80**, 1150-1152 (2002).

431. Optical Properties of Epitaxial ZnMnTe and ZnMgTe Films for a Wide Range of Alloy Compositions, X. Liu, U. Bindley, Y. Sasaki, and J. K. Furdyna, *J. Appl. Phys.* **91**, 2859-2865 (2002).
432. Photoluminescence spectroscopy on single CdSe quantum dots in a semimagnetic ZnMnSe matrix, H. Schömig, M. K. Welsch, S. Zaitsev, G. Bacher, V. D. Kulakovskii, A. Forchel, S. Lee, M. Dobrowolska, and J. K. Furdyna, *Physica E*, **13**, 512-515, (2002).
433. Electronic and structural properties of II-VI alloys and superlattices, M. H. Tsai, F. C. Peiris, S. Lee, and J. K. Furdyna, *Phys. Rev. B* **65**, art. no. 235202 (2002).
434. Ferromagnetic III-Mn-V Semiconductor Multilayers: Manipulation of Magnetic Properties by Proximity Effects and Interface Design (Invited), J. K. Furdyna, X. Liu, Y. Sasaki, S. J. Potashnik and P. Schiffer, *J. Appl. Phys.* **91**, 7490 (2002).
435. Ferromagnetic resonance in GaMnAs, Y. Sasaki, X. Liu, J. K. Furdyna, M. Palczewska, J. Szczytko, and A. Twardowski, *J. Appl. Phys.* **91**, 7484 (2002).
436. Above-room-temperature ferromagnetism in GaSb/Mn digital alloys, X. Chen, M. Na, M. Cheon, S. Wang, H. Luo, B. D. McCombe, X. Liu, Y. Sasaki, T. Wojtowicz, J. K. Furdyna, S. J. Potashnik and P. Schiffer, *Appl. Phys. Lett.* **81**, 511-513 (2002).
437. Ultrafast spin dynamics in GaAs/GaSb/InAs heterostructures probed by second harmonic generation, Yu. D. Glinka, T. V. Shahbazyan, I. E. Perakis, N. H. Tolk, X. Liu, Y. Sasaki, and J. K. Furdyna, *Appl. Phys. Lett.* **81**, 220 (2002).
438. Anisotropic magnetoresistance in $\text{Ga}_{1-x}\text{Mn}_x\text{As}$, D. V. Baxter, D. Ruzmetov, J. Scherschligt, Y. Sasaki, X. Liu, J. K. Furdyna, and C. H. Mielke, *Phys. Rev. B* **65**, 212407 (2002).
439. Effect of the location of Mn sites in ferromagnetic $\text{Ga}_{1-x}\text{Mn}_x\text{As}$ on its Curie temperature, K. M. Yu, W. Walukiewicz, T. Wojtowicz, I. Kuryliszyn, X. Liu, Y. Sasaki, and J. K. Furdyna, *Phys. Rev. B* **65**, 201303(R).(2002).
440. Studies of Mn/GaAs digital alloys using x-ray absorption fine structure and x-ray diffraction methods,” Y. L. Soo, G. Kioseoglou, S. Kim, X. Chen, H. Luo, Y. H. Kao, Y. Sasaki, X. Liu, and J. K. Furdyna, *Appl. Phys. Lett.* **80**, 2654 (2002).
441. Transport and magnetic properties of ferromagnetic GaAs/Mn digital alloys,” H. Luo, B. D. McCombe, M. H. Na, K. Mooney, F. Lehmann, X. Chen, M. Cheon, S. M. Wang, Y. Sasaki, X. Liu and J. K. Furdyna, *Physica E* **12**, 366 (2002).
442. Role of magnetic/nonmagnetic semiconductor interfaces in magneto-optical properties of small-offset superlattices, M. Syed, G. L. Yang, J. K. Furdyna, M.

- Dobrowolska, S. Lee, and L. R. Ram-Mohan, *Phys. Rev. B* **66**, art. no. 075213 (2002).
443. Monte Carlo simulation of sinusoidally modulated superlattice growth, H. Jeong, B. Kahng, S. Lee, C. Y. Kwak, A.-L. Barabasi, and J. K. Furdyna, *Phys. Rev. E* **65**, art. no. 031602 (2002).
444. Fabrication and characterization of III-V semiconductor superlattices with sinusoidal compositional modulation, X. Liu, Y. Sasaki, L. V. Titova, P. M. Reimer, S. Lee, and J. K. Furdyna, *Physica E* **13**, 1143-1146 (2002).
445. Ultrafast dynamics of interfacial electric fields in semiconductor heterostructures monitored by pump-probe second harmonic generation, Yu. D. Glinka, T. V. Shahbazyan, I. E. Perakis, N. H. Tolk, X. Liu, Y. Sasaki, and J. K. Furdyna, *Appl. Phys. Lett.* **81**, 3717-3719 (2002).
446. Monitoring statistical magnetic fluctuations on the nanometer scale, G. Bacher, A. A. Maksimov, H. Schoemig, V. D. Kulakovskii, M. K. Welsch, A. Forchel, P. S. Dorozhkin, A. V. Chernenko, S. Lee, M. Dobrowolska, and J. K. Furdyna, *Phys. Rev. Letters* **89**, art. No. 127201 (2002).
447. Transport and magnetic properties of low temperature annealed $\text{Ga}_{1-x}\text{Mn}_x\text{As}$, I. Kuryliszyn, T. Wojtowicz, X. Liu, J. K. Furdyna, W. Dobrowolski, J. M. Broto, M. Goiran, O. Portugall, H. Rakoto, and B. Raquet, *Acta Physica Polonica A* **102**, 659-665 (2002).
448. Dynamical spin response in semimagnetic quantum dots, J. Seufert, G. Bacher, M. Scheibner, A. Forchel, S. Lee, M. Dobrowolska, and J. K. Furdyna, *Phys. Rev. Lett.* **88**, art. no. 027402 (2002).
449. Growth and optical properties of Mn-containing II-VI quantum dots, S. Mackowski, S. Lee, J. K. Furdyna, M. Dobrowolska, G. Prechtel, W. Heiss, J. Kossut, G. Karczewski, *Physica Status Solidi* **229**, 469-472 (2002).
450. Dynamics of zero-dimensional excitons in a semimagnetic environment, J. Seufert, M. Scheibner, G. Bacher, A. Forchel, S. Lee, M. Dobrowolska, and J. K. Furdyna, *Phys. Stat. Sol. (b)* **229**, 727-731 (2002).
451. Magnetic CdSe-based Quantum Dots grown on Mn-passivated ZnSe, L. V. Titova, J. K. Furdyna, M. Dobrowolska, S. Lee, T. Topuria, P. Mock, and N. D. Browning, *Appl. Phys. Lett.* **80**, 1237-1239 (2002).
452. Determination of free hole concentration in ferromagnetic $\text{Ga}_{1-x}\text{Mn}_x\text{As}$ using electrochemical capacitance-voltage profiling, K. M. Yu, W. Walukiewicz, T. Wojtowicz, W. L. Lim, X. Liu, Y. Sasaki, M. Dobrowolska, and J. K. Furdyna, *Appl. Phys. Lett.* **81**, 844-846 (2002).
453. Variation of inter-well coupling in magnetically tunable multiple quantum wells,

- S. Lee, M. Dobrowolska, J.K. Furdyna, and L.R. Ram-Mohan, *Phys. Stat. Solidi* **B229**, 711-7116 (2002).
454. Microstructural and optical studies of multiply stacked CdSe/ZnSe quantum-dot structures with a large ZnSe spacer thickness, T.W. Kim, D.C. Choo, D.U. Lee, M. Jung, J. W. Cho, K. H. Yoo, S. Lee, K. Y. Seo, and J. K. Furdyna, *Solid State Commun.* **122**, 229-232 (2002).
455. Self-Organized Low-Dimensional II-VI nanostructures, J. K. Furdyna, S. Lee, A.-L. Barabasi, and J. L. Merz, in *II-VI Semiconductor Materials and Their Applications*, edited by M. C. Tamargo (Taylor and Francis, New York, 2002), p. 313.
- 2003**
456. Effect of additional non-magnetic acceptor doping on the resistivity peak and the Curie temperature of Ga_{1-x}Mn_xAs epitaxial layers, Sh.U.Yuldashev, Hyunsik Im, V. Sh. Yalishev, C.S. Park, T.W.Kang, Sanghoon Lee, Y. Sasaki, X. Liu, and J.K. Furdyna, *Appl. Phys. Lett.* **82**, 1206-1208 (2003).
457. Ferromagnetic resonance in Ga_{1-x}Mn_xAs: effects of magnetic anisotropy, X. Liu, Y. Sasaki and J. K. Furdyna, *Physical Review B* **67**, 205204 (2003).
458. Optically induced multispin entanglement in a semiconductor quantum well, J. Bao, A. V. Bragas, J. K. Furdyna, and R. Merlin, *Nature Materials* **2**, 175-179 (2003).
459. Spin Wave Resonances in GaMnAs, Y. Sasaki, X. Liu, and J. K. Furdyna, *Journal of Superconductivity* **16**, 143-145 (2003).
460. Low temperature annealing studies of Ga_{1-x}Mn_xAs, I. Kuryliszyn, T. Wojtowicz, X. Liu, J. K. Furdyna, J. M. Broto, O. Portugall, and B. Raquet, *Journal of Superconductivity* **16**, 63-66 (2003).
461. Correlation of Mn lattice location, free hole concentration, and Curie temperature in ferromagnetic GaMnAs, T. Wojtowicz, W.L. Lim, X. Liu, Y. Sasaki, U. Journal Bindley, M. Dobrowolska, J.K. Furdyna, K.M. Yu, and W. Walukiewicz, *Journal of Superconductivity* **16**, 41-44 (2003).
462. The effect of Mn on self-assembled CdSe/ZnSe quantum dots, S. Lee, L. V. Titova, M. Kutrowski, M. Dobrowolska, and J. K. Furdyna, *J. Korean Phys. Soc.* **42**, S51-S534 (2003).
463. Pump-probe second harmonic generation study of ultrafast spin dynamics in semiconductor multilayers, Y. D. Glinka, T. V. Shabazyan, I. E. Perakis, N. H. Tolk, X. Liu, Y. Sasaki, and J. K. Furdyna, *Surface and Interface Analysis* **35**, 146-150 (2003).

464. Novel ferromagnetism in digital GaAs/Mn and GaSb/Mn alloys, B. D. McCombe, M Na, X. Chen, M.Cheon, S. Wang, H. Luo, X. Liu, Y. Sasaki, T. Wojtowicz, J. K. Furdyna, S. J. Potashnik, and P. Schiffer, *Physica E* **16**, 90-98 (2003).
465. Excitonic luminescence from nonsymmetric heterovalent AlAs/GaAs/ZnSe quantum wells, A. Kudelski, U. Bindley, J. K. Furdyna, M. Dobrowolska, and T. Wojtowicz, *Appl. Phys. Lett.* **82**, 1854-1856 (2003).
466. Coherent superposition of electric- and magnetic-dipolespin-flip transitions in zinc-blende semiconductors, J. K. Furdyna and M. Dobrowolska, *Journal of Superconductivity* **16**, 647-659 (2003).
467. Spin-selective positioning of wave functions in magnetically-tunable symmetric triple quantum wells, S. Lee, M. Dobrowolska, J.K. Furdyna, and L.R. Ram-Mohan, *Optical Materials* **23**, 79-82 (2003).
468. Transition from island formation to pseudomorphic growth in the submonolayer CdSe/ZnSe multilayer system, M. Kim, J. K. Furdyna, M. Dobrowolska M, S. Lee, M. Cheon, and H. Luo, *Appl. Phys. Lett.* **83**, 1728-1730 (2003).
469. Local environment surrounding ferromagnetically ordered Mn in Mn/GaAs digital alloys and (Mn, Ga)As random alloys, Y. L. Soo, G. Kioseoglu, S. Kim, X. Chen, H. Luo, H. Kao, H.-J. Lin, H. H. Hsieh, T. Y. Hou, C. T. Chen, Y. Sasaki, X. Liu, and J. K. Furdyna, *Phys. Rev. B* **67**, Art. No. 214401 (2003).
470. Magneto-photoluminescence and spin dynamics of self-assembled CdSe quantum dots in Zn_{1-x}Mn_xSe, E. Oh, S. M. Soh, J. U. Lee, K.J. Yee, J.C. Woo, H.S. Jeon, D.S. Kim, S. Lee, J. K. Furdyna, H.C. Ri, H.S. Chany, and S. H. Park, *J. Korean Phys. Soc.* **42**, 795-798 (2003).
471. Effect of Be doping on the properties of GaMnAs ferromagnetic semiconductors, S. Lee, S. J. Chung, I. S. Choi, Sh.U. Yuldashev, Hyunsik Im, T.W. Kang, W-L. Lim, Y. Sasaki, X. Liu, T. Wojtowicz, and J.K. Furdyna, *J. Appl. Phys.* **93**, 8307-8309 Part 3 (2003).
472. Laser-controlled magnetization in a single magnetic semiconductor quantum dot, H. Schomig, G. Bacher, A. Forchel, S. Lee, M. Dobrowolska, and J. K. Furdyna, *J. Supercond.* **16**, 379-382 (2003).
473. Magneto-optical study of multiple layers of self-assembled quantum dots involving diluted magnetic semiconductors, S. Lee, D. Y. Shin, L. V. Titova, M. Kutrowski, J. K. Furdyna, and M. Dobrowolska, *J. Supercond.* **16**, 453-456 (2003).
474. Magnetic domain structure and magnetic anisotropy in Ga_{1-x}Mn_xAs, U. Welp, V. K. Vlasko-Vlasov, X. Liu, J. K. Furdyna, and T. Wojtowicz, *Phys. Rev. Lett.* **90**, Art. No. 167206 (2003).

475. Curie Temperature Limit in Ferromagnetic $\text{Ga}_{1-x}\text{Mn}_x\text{As}$, K. M. Yu and W. Walukiewicz, T. Wojtowicz, W.L. Lim, X. Liu, U. Bindley, M. Dobrowolska, and J. K. Furdyna, *Phys. Rev. B* **68**, 041308(R).(2003).
476. Coupling between magnetic/non-magnetic quantum dots in double-layer geometry, S. Lee, D. Y. Shin, L. V. Titova, M. Kutrowski, M. Dobrowolska, and J. K. Furdyna, *Appl. Phys. Lett.* **83**, 2865-2867 (2003).
477. Optical properties of molecular beam epitaxy grown $\text{Zn}_{1-x}\text{Mn}_x\text{Te}$ thin films measured by complementary techniques, F. C. Peiris, B. A. Kowalski, X. Liu, U. Bindley, and J. K. Furdyna, *J. Appl. Phys.* **94**, 4717 (2003).
478. Probing hole-induced ferromagnetic exchange in magnetic semiconductors by inelastic neutron scattering, H. Kema, Le Van Khoi, C.M. Brown, M. Sawicki, *et al.* . *Phys. Rev. Lett.* **91**, Art. No. 087205 (2003).
479. Ferromagnetic III-Mn-V Semiconductors: Manipulation of Magnetic Properties by Annealing, Extrinsic Doping, and Multilayer Design, J. K. Furdyna, S. Lee, T. Wojtowicz, X. Liu, W.L. Lim, I. Kuryliszyn, Y. Sasaki, K. M. Yu and W. Walukiewicz, *J. Korean Phys. Soc.* **42**, S579-S590 (2003).
480. InMnSb - a narrow gap ferromagnetic semiconductor, T. Wojtowicz, G. Cywinski, W.L. Lim, X. Liu, M. Dobrowolska, J. K. Furdyna, K.M. Yu, W. Walukiewicz, X. Chen, S. M. Wang, G.B. Kim, M. Cheon, and H. Luo, *Appl. Phys. Lett.* **82**, 4310-4312 (2003).
481. Enhancement of Curie temperature in $\text{Ga}_{1-x}\text{Mn}_x\text{As}/\text{Ga}_{1-y}\text{Al}_y\text{As}$ ferromagnetic heterostructures by Be modulation doping, T. Wojtowicz, W.L. Lim, X. Liu, M. Dobrowolska, and J. K. Furdyna, K. M. Yu and W. Walukiewicz, I. Vurgaftman and J. R. Meyer, *Appl. Phys. Lett.* **83**, 4220-4222 (2003).
482. Spin/carrier dynamics at semiconductor interfaces using intense, tunable, ultra-fast lasers, Y. Jiang, R. Pasternak, Z. Marka, Y.V. Shirokaya, J. K. Miller, S.N. Rashkeev, Y. D. Glinka, **P.I. Erakis**, P.K. Roy, J. Kozub, B. K. Choi, D. M. Fleetwood, R. D. Schrimpf, X. Liu, Y. Sasaki, J. K. Furdyna, and N. H.Tolk, *Physica status solidi b* **240**, 490-499 (2003).
483. Optical implementation of entangled multi-spin states in CdTe quantum wells, J. M. Bao, A. V. Bragas, J. K. Furdyna, and R. Merlin, *Solid State Commun.* **127**, 771-775 (2003).
484. Spin polarization of self-assembled CdSe quantum dots in $\text{Zn}_{1-x}\text{Mn}_x\text{Se}$, Eunsoon Oh, K.J. Yee, S.M. Soh, J.U. Lee, J.C. Woo, H.S. Jeon, and D.S. Kim, S. Lee, J.K. Furdyna, H.C. Ri, H.S. Chany, and S. H. Park, *Appl. Phys. Lett.* **83**, 4604-4606 (2003).

485. Variations of long- and short-range-order structural and magnetic properties of thermally annealed Mn/GaAs digital alloys, Y. L. Soo, S. Wang, S. Kim, G. Kim, M. Cheon, X. Chen, H. Luo, Y. H. Kao, Y. Sasaki, X. Liu, and J. K. Furdyna *Appl. Phys. Lett.* **83**, 2354-2356 (2003).
486. Very large magnetoresistance in lateral GaMnAs ferromagnetic with nanoconstrictions, C. Ruester, T. Borzenko, C. Gould, G. Schmidt, L. W. Molenkamp, X. Liu, T. J. Wojtowicz, J. K. Furdyna, Z. G. Yu, and M. E. Flatte, *Phys. Rev. Lett.* **91**, Art. No.216602 (2003).
487. Structural and magneto-optical studies of multiple quantum dots containing magnetic semiconductors, S. Lee, D. Y. Shin, H. S. Lee, J. Y. Lee, L. V. Titova, M. Kutrowski, J. K. Furdyna, and M. Dobrowolska, *Physica Status solidi (c)*, **0**, 1283-1287 (2003).
488. Longitudinal and transverse fluctuations of magnetization of the excitonic magnetic polaron in a semimagnetic single quantum dot, P.S. Dorozhkin, A.V. Chernenko, V.D. Kulakovskii, A.S. Brichkin, A.A. Maksimov, H. Schoemig, G. Bacher, A. Forchel, S. Lee, M. Dobrowolska, J.K. Furdyna, *Phys. Rev. B* **68**, No. 195313 (2003).
489. Magnetoresistance of Ga_{1-x}Mn_xAs epitaxial layers doped by Be, S.U. Yuldashev, H. Im, V.S. Yalishev, C.S. Park, T.W. Kang, S. Lee, Y. Sasaki, X. Liu, J.K. Furdyna, *Japanese J. of Appl. Phys.* **42**, 6256-6259 (2003).
490. Photoluminescence of CdSe self-assembled quantum dots: Experiments and models, R. A. Jones, J. M. Yarrison-Rice, L. M. Smit, H. E. Jackson, M. Dobrowolska, and J. K. Furdyna, *Phys. Rev. B* **68**, Art. No. 125333 (2003).

2004

491. Exciton-LO-phonon interaction in II-VI self-assembled quantum dots, T. A. Nguyen, S. Mackowski, H. E. Jackson, L. M. Smith, G. Karczewski, J. Kossut, M. Dobrowolska, J. K. Furdyna, and W. Heiss, *Physica Status Solidi (c)*, **1**, 767-770 (2004).
492. Giant polarized optical properties in Type-II ZnTe/CdSe multiple quantum wells induced by interface chemical bonds, Y. F. Chen, W. S. Su, M. H. Ya, Y. S. Chiu, *Physica Status Solidi (b)*, **241**, 538-541 (2004).
493. Origin of resistivity peak near the Curie temperature and magnetoresistance in Ga_{1-x}Mn_xAs epitaxial layers, S. U. Yuldashev, H. Im, T. W. Kang, S. H. Lee, Y. Sasaki, X. Liu, J. K. Furdyna, Y. D. Woo, *Journal Of The Korean Physical Society* **45**, S572-S576 Suppl. S, (2004).

494. Neutron scattering studies of nanomagnetism and artificially structured materials, M. R. Fitzsimmons, S. D. Bader, J.A. Borchers, G. P. Felcher, J. K. Furdyna, A. Hoffman, J. B. Kortright, Ivan C. Shuller, T. C. Schulthess, T. C. Sinha, M. F. Toney, D. Weller, and S. Wolf, *J. of Magnetism and Magnetic Materials* **271**, 103-146 (2004).
495. ZnCdSe quantum structures by (110)-cleaved-edge overgrowth: MBE growth and μ -PL characterization, L. V. Titova, G. Cywinski, M. Kutrowski, T. Wojtowicz, X. Liu, J. K. Furdyna, and M. Dobrowolska, *Physica Status Solidi (b)*, **241**, 519.
496. Magneto-photoluminescence study on magnetic/non-magnetic semiconductor quantum dots, S. Lee, D. Y. Shin, L. Titova, M. Kutrowski, M. Dobrowolska, and J. K. Furdyna, *Physica Status Solidi (b)*, **241**, 722-726 (2004).
497. Determination of the dielectric functions of MBE-grown ZnMgSe semiconductor alloys, A. J. Franz, F. C. Peiris, Z. Liu, U. Bindley, and J. K. Furdyna, *Physica Status Solidi (b)*, **241**, 507-510 (2004).
498. Magnetization relaxation in (Ga,Mn)As ferromagnetic semiconductors, Jairo Sinova, T. Jungwirth, X. Liu, Y. Sasaki, J. K. Furdyna, W. A. Atkinson, and A. H. MacDonald, *Phys. Rev. B* **69**, No. 085209 (2004).
499. The effect of Mn interstitials on the lattice parameter of $\text{Ga}_{1-x}\text{Mn}_x\text{As}$, I. Kuryliszyn-Kudelska, J.Z.Domagala, T.Wojtowicz, X.Liu, E. Łusakowska, W.Dobrowolski, and J.K.Furdyna, *J. Appl. Phys.* **95**, 603-608 (2004).
500. Anomalous behavior of spin-wave resonances in $\text{Ga}_{1-x}\text{Mn}_x\text{As}$ thin films, T.G. Rappoport, P. Redlinski, X. Liu, G. Zarand, et al., *Phys. Rev. B* **69**, No. 125213 (2004).
501. Annealing-Dependent Magnetic Depth Profile in $\text{Ga}_{1-x}\text{Mn}_x\text{As}$, B. J. Kirby, A. Borchers, J. J. Rhyne, S. G. E. te Velthuis, A. Hoffmann, K. V. O'Donovan, T. Wojtowicz, X. Liu, W. L. Lim, and J. K. Furdyna, *Phys. Rev. B* **69**, No. 081307 (2004).
502. High-temperature Hall effect in $\text{Ga}_{1-x}\text{Mn}_x\text{As}$, D. Ruzmetov, J. Scherschligt, David V. Baxter, T. Wojtowicz, et al., *Phys. Rev. B* **69**, Art. No. 155207 (2004).
503. MBE growth and magnetotransport studies of ferromagnetic $\text{Ga}_{1-x}\text{Mn}_x\text{Sb}$ semiconductor layers on hybrid ZnTe/GaAs substrates, W. L. Lim, T. Wojtowicz, X. Liu, M. Dobrowolska, J. K. Furdyna, *Physica E* **20**, 346-349 (2004).
504. Growth and properties of ferromagnetic $\text{In}_{1-x}\text{Mn}_x\text{Sb}$ alloys, T. Wojtowicz, W.L. Lim, X. Lim, G. Cywinski, M. Kutrowski, L. V. Titova, K. Yee, M. Dobrowolska, J. K. Furdyna, K. M. Yu, W. Walukiewicz, G.B. Kim, M. Cheon, X. Chen, S.M. Wang, H. Luo, I. Vurgaftman, J.R. Meyer, *PHYSICA E* **20**, 325-332 (2004).

505. External control of the direction of magnetization in ferromagnetic InMnAs/GaSb heterostructures, X. Liu, W. L. Lim, L. V. Titova, T. Wojtowicz, M. Kutrowski, K. J. Yee, M. Dobrowolska, J. K. Furdyna, S. J. Potashnik, M. B. Stone, P. Schiffer, I. Vurgaftman, J. R. Meyer, *Physica E* **20**, 370-373 (2004).
506. Ferromagnetic GaSb/Mn digital alloys, G.B. Kim, M. Cheon, Wang S, H. Luo, B.D. McCombe, X. Liu, Y. Sasaki, T. Wojtowicz, J.K. Furdyna, *Physica E* **20**, 338-345 (2004).
507. Electric-field control of ferromagnetism in GaSb/Mn digital alloys, G.B. Kim, M. Cheon, S. Wang, H. Luo, B.D. McCombe, X. Liu, Y. Sasaki, T. Wojtowicz, J.K. Furdyna, *Physica E* **20**, 355-359 (2004).
508. Magnetotransport and magnetic properties of InAs/Mn digital alloys, G. Acbas, G.B. Kim, X. Chen, S. Wang, M. Cheon, C.J. Meining, H. Luo, B.D. McCombe, Y. Sasaki, X. Liu, J.K. Furdyna, *Physica E* **20**, 382-385 (2004).
509. Polarization selective magneto-optical study on the coupled quantum dots using resonant excitation, S. Lee, D. Y. Shin, H. S. Lee, J. Y. Lee, M. Dobrowolska, and J. K. Furdyna, *Physica E* **21**, 376-380 (2004).
510. Effect of Annealing on magnetic and magnetotransport properties of $\text{Ga}_{1-x}\text{Mn}_x\text{As}$ epilayers, I. Kuryliszyn-Kudelska, T. Wojtowicz, X. Liu, J. K. Furdyna, W. Dobrowolski, J. Z. Domagala, E. Lusakowska, M. Goiran, E. Haanappel, and O. Portugall, *J. Mag. Mat.* **272-276**, 1575-1577 (2004).
511. Measurements of spin Polarization by Andreev Reflection in Ferromagnetic $\text{In}_{1-x}\text{Mn}_x\text{Sb}$ epilayers, R. P. Panguluri, B. Nadgorny, T. Wojtowicz, W.-L. Lim, X. Liu, and J. K. Furdyna, *Appl. Phys. Lett.* **84**, 4947-4949 (2004).
512. Direct evidence of the Fermi-energy-dependent formation of Mn interstitials in modulation-doped $\text{Ga}_{1-y}\text{Al}_y\text{As}/\text{Ga}_{1-x}\text{Mn}_x\text{As}/\text{Ga}_{1-y}\text{Al}_y\text{As}$ heterostructures, K.M.Yu, W. Walukiewicz, T. Wojtowicz T, W. L. Lim, M. Dobrowolska, and J. K. Furdyna, *Appl. Phys. Lett.* **84**, 4325-4327 (2004).
513. Effect of interlayer exchange coupling on the Curie temperature in $\text{Ga}_{1-x}\text{Mn}_x\text{As}$ trilayer structures, S. U. Yuldashev, Y. Kim, N. Kim, H. Im, T.W.Kang, S. Lee, Y.Sasaki, X. Liu and J. K. Furdyna., *Jpn. J. Appl. Phys.* **43**, 2093-2096 (2004).
514. Possible indication of interlayer exchange coupling in GaMnAs/GaAs ferromagnetic semiconductor superlattices, S.J.Chung, S. Lee. I.W. Park, X. Liu, J. K. Furdyna, *J. Appl. Phys.* **95**,7402-7404 (2004).
515. Spin polarization of excitons in nonmagnetic quantum dots induced by a neighboring magnetic semiconductor quantum well, S. Lee. K. Park, M. Dobrowolska, and J. K. Furdyna, *J. Appl. Phys.* **95**, 7184-7186 (2004).

516. Determination of hole-induced ferromagnetic Mn-Mn exchange in p-type $Zn_{1-x}Mn_xTe$ by inelastic neutron scattering, H. Kepa, L. Van Khoi, C.M.Brown, T. Dietl, J.K. Furdyna, and T. Giebultowicz, *Physica B* **350**, 36-39 (2004).
517. Uniaxial in-plane magnetic anisotropy of $Ga_{1-x}Mn_xAs$, U. Welp, V.K. Vlasko Vlasov, A. Menzel, H.D.You, X. Liu, J. K. Furdyna, and T. Wojtowicz, *Applied Physics Letters* **85**, 260-262 (2004).
518. Properties of arsenic antisite defects in $Ga_{1-x}Mn_xAs$, A. Wolos, M. Kaminska, M. Palczewska, A. Twardowski, X. Liu, T. Wojtowicz, and J. K. Furdyna, *Journal of Applied Physics* **96**, 530-533 (2004).
519. Lattice location of Mn and fundamental Curie temperature limit in ferromagnetic $Ga_{1-x}Mn_xAs$, K.M.Yu, W. Walukiewicz, T. Wojtowicz, W.-L. Lim, X. Liu, M. Dobrowolska, and J. K. Furdyna, *Nuclear Instruments and Methods in Physics Research, Section B: Beam Interactions with Materials and Atoms* **219-20**, 636-641, (2004).
520. Optical dispersion of ternary II-VI semiconductor alloys, X. Liu, J.K. Furdyna, *Journal of Applied Physics* **95**, 7754-7764 (2004).
521. Temperature dependence of the band-edge photoluminescence of $Zn_{1-x}Mn_xSe$ films, Y.H. Hwang, Y.H. Um, and J.K. Furdyna, *Semiconductor Science and Technology* **19**, 565-570 (2004).
522. Effect of p-type buffer layer on the properties of GaMnAs ferromagnetic semiconductors, Y. J. Yoon, S. J. Chung, H. J. Lee, S. Lee, S. Y. An, X. Liu, J. K. Furdyna, *Journal Of The Korean Physical Society* **45**, S720-S723 Suppl. S, (2004).
523. Influence of inter-dot coupling on spin polarization of carriers in double quantum dots, S. Lee, S.-R. EricYang, M. Dobrowolska, and J.K. Furdyna, *Semiconductor Science and Technology* **19**, 1125-1130 (2004).
524. Exciton dephasing in self-assembled CdSe quantum dots, P. Palinginis, H. Wang, S. V. Goupalov, D. S. Citrin, M. Dobrowolska, and J. K. Furdyna, *Phys. Rev. B* **70**, 073302 (2004).
525. Dependence of indices of refraction on Mn composition of $Zn_{1-x}Mn_xSe$ thin films using prism coupler technique, Y.H. Um, Y.H. Hwang, F.C. Peiris, and J. K. Furdyna, *Physica Status Solidi B* **241**, 1677-1680 (2004).
526. Anomalous Hall effect in insulating GaMnAs, Sh. U. Yuldashev, H. C. Jeon, H. S. Im, T. W. Kang, S. H. Lee, and J. K. Furdyna, *Phys. Rev. B* **70**, 193203 (2004).

527. Resonant spectroscopy of II-VI self-assembled quantum dots: Excited states and exciton–longitudinal optical phonon coupling, T. A. Nguyen, S. Mackowski, H. E. Jackson, L. M. Smith, J. Wrobel, K. Fronc, G. Karczewski, J. Kossut, M. Dobrowolska, J. K. Furdyna, and W. Heiss, *Phys. Rev. B* **70**, 125306 (2004).
528. Magnetic Anisotropy in Ferromagnetic III-Mn-V Semiconductors: Issues and Observations, J. K. Furdyna, X. Liu, T. Wojtowicz, W. L. Lim, U. Welp, and V. K. Vasko-Vlasov, in *Advances in Solid State Physics* (Springer, Berlin, 2004, edited by B. Kramer), p. 515-530.
529. Electronic effects determining the formation of ferromagnetic $\text{III}_{1-x}\text{Mn}_x\text{V}$ alloys during epitaxial growth, T. Wojtowicz, J. K. Furdyna, X. Liu, K. M. Yu and W. Walukiewicz, *Physica E: Low-dimensional Systems and Nanostructures* **25**, 171- 180 (2004).
530. Fermi level effects on Mn incorporation in modulation-doped ferromagnetic $\text{III}(1-x)\text{Mn}(x)\text{V}$ heterostructures, J. K. Furdyna, T. Wojtowicz, X. Liu, K. M. Yu, W. Walukiewicz, I. Vurgaftman, and J. R. Meyer, *Journal of Physics – Condensed Matter* **16**, S5499-S5508 (2004).
531. Magnetotransport properties of GaMnAs/ZnMnSe double-layer systems, I. S. Choi, S. H. Nam, H. J. Lee, S. Lee, S. Y. An, W. L. Lim, X. Liu, J. K. Furdyna, *Journal Of The Korean Physical Society* **45**, S554-S558 Suppl. S, (2004).
532. High-field magnetotransport studies of ferromagnetic GaAs/Mn digital alloys, G. B. Kim, M. Na, G. Acbas, B. D. Mccombe, S. Wang, M. Cheon, H. Luo, X. Liu, Y. Sasaki, J. K. Furdyna, *International Journal Of Modern Physics B* **18**, 3735-3743 (2004).

2005

533. Transition behavior from uncoupled to coupled multiple stacked CdSe/ZnSe self-assembled quantum-dot arrays, T. W. Kim, K. H. Yoo, Gil-Ho Kim, S. Lee, J. K. Furdyna and M. Dobrowolska, *Solid State Commun.* **133**, 191 (2005).
534. Effects of capping on the $\text{Ga}_{1-x}\text{Mn}_x\text{As}$ magnetic depth profile, B. J. Kirby, J. A. Borchers, J. J. Rhyne, K. V. O'Donovan, T. Wojtowicz, X. Liu, Z. Ge, S. Shen, J. K. Furdyna, *Applied Physics Letters* **86**, Art. No. 072506 (2005).
535. Magneto-optical study of nonmagnetic quantum dots coupled to a magnetic semiconductor quantum well, S. Lee, M. Dobrowolska and J. K. Furdyna, *Physica E: Low-dimensional Systems and Nanostructures* **26**, 271-275 (2005).
536. Effect of film thickness on the incorporation of Mn interstitials in $\text{Ga}_{1-x}\text{Mn}_x\text{As}$, K.M. Yu, W. Walukiewicz, T. Wojtowicz, J. Denlinger, M. A. Scarpulla, X. Liu, J. K. Furdyna, *Applied Physics Letters* **86**, Art. No. 042102 (2005).

537. Ferromagnetic resonance study of the free-hole contribution to magnetization and magnetic anisotropy in modulation-doped $\text{Ga}_{1-x}\text{Mn}_x\text{As}/\text{Ga}_{1-y}\text{Al}_y\text{As} : \text{Be}$, X. Liu, W. L. Lim, M. Dobrowolska, J. K. Furdyna, T. Wojtowicz, *Physical Review B* **71**, Art. No. 035307 (2005).
538. Control of spin dynamics with laser pulses: Generation of entangled states of donor-bound electrons in a $\text{Cd}_{1-x}\text{Mn}_x\text{Te}$ quantum well, J. M. Bao, A. V. Bragas, J. K. Furdyna, R. Merlin, *Physical Review B* **71**, Art. No. 045314 (2005).
539. Observation of photoluminescence related to Lomer-Cottrell-like dislocations in ZnSe epilayers grown on in situ cleaved (110)GaAs surfaces, M. Kutrowski, T. Wojtowicz, G. Cywinski, L. V. Titova, E. Martin, X. Liu, J. K. Furdyna, M. Dobrowolska, *Journal of Applied Physics* **97**, Art. No. 013519 (2005).
540. Experimental evidence for antiferromagnetic spin-spin interaction between carriers localized in coupled quantum dots, S. Lee, H. S. Lee, J. Y. Lee, M. Dobrowolska, J. K. Furdyna, *Applied Physics Letters* **86**, Art. No. 033114 (2005).
541. Coupled II-VI semiconductor quantum dots: manipulation by inter-dot exchange interaction (INVITED), S. Lee, J. K. Furdyna, and M. Dobrowolska, *Physica Status Solidi (c)*, **2**, 1085-1097 (2005).
542. Strain-engineered ferromagnetic $\text{In}_{1-x}\text{Mn}_x\text{As}$ films with in-plane easy axis, X. Liu, W. L. Lim, Z. Ge, S. Shen, M. Dobrowolska, J. K. Furdyna, T. Wojtowicz, K. M. Yu, and W. Walukiewicz, *Applied Phys. Letters* **86**, Art. No. 112512 (2005).
543. Optical response of a ferromagnetic-diluted magnetic semiconductor hybrid structure, P. Redlinski, T. G. Rappoport, A. Libal, J. K. Furdyna, B. Janko, and T. Wojtowicz, *Applied Phys. Letters* **86**, Art. No. 113103 (2005).
544. Dielectric functions of molecular-beam-epitaxy-grown $\text{Ga}_{1-x}\text{Mn}_x\text{As}$ thin films, Z. J. Weber, F. C. Peiris, X. Liu, J. K. Furdyna, *Journal of Vacuum Science & Technology B* **23**, 1313-1316 (2005).
545. Anti-parallel spin interaction between the carriers in coupled quantum dots, S. Lee, J. K. Furdyna, M. Dobrowolska, *Compound Semiconductors 2004, Proceedings Institute of Physics Conference Series* **184**, 447-450 (2005).
546. Optical properties of II-VI-based magnetic semiconductor self-assembled quantum dots, S. Lee, J. K. Furdyna, M. Dobrowolska, *Compound Semiconductors 2004, Proceedings: Institute of Physics Conference Series* **184**, 455-462 (2005).
547. Pressure-induced ferromagnetism in (In,Mn)Sb dilute magnetic semiconductor, M. Csontos, G. Mihaly, B. Janko, T. Wojtowicz, X. Liu, J. K. Furdyna, *Nature Materials* **4**, 447-449 (2005).

548. Observation of combined ferromagnetic/paramagnetic phase in $\text{Ga}_{1-x}\text{Mn}_x\text{As}$ by magnetic circular dichroism, K.J. Yee, R. Chakarvorty, W.L.Lim, X. Liu, M. Kutrowski, L.V. Titova, T. Wojtowicz, J.K. Furdyna, M. Dobrowolska, *Journal of Superconductivity* **18**, 131-135 (2005).
549. Coherent optical phonon oscillations in GaMnAs , K.J. Yee, Y.S. Lim, X. Liu, W.L. Lim, D.S. Kim, M. Dobrowolska, J.K. Furdyna, *Journal of Superconductivity* **18**, 115-119 (2005).
550. Effect of low temperature annealing on the magnetic properties of $\text{Ga}_{1-x}\text{Mn}_x\text{As}/\text{GaAs}$ superlattices, S.J. Chung, S. Lee, I.W. Park, X. Liu, J.K. Furdyna, *Journal of Superconductivity* **18**, 93-96 (2005).
551. Effects on Mn site location on the magnetic properties of $\text{III}_{1-x}\text{Mn}_x\text{V}$ semiconductors, K.M. Yu, W. Walukiewicz, T. Wojtowicz, J. Denlinger, X. Liu, and J. K. Furdyna, *Physics of Semiconductors: AIP Conference Proceedings*, Edited by J. Menendez and C.G. Van de Walle, Vol. 772 (Melville, NY, 2005), p. 303.
552. Optical investigation of temperature-induced changes in magnetic anisotropy in III-Mn-As ferromagnetic semiconductors, M. Kutrowski, L. Titova, R. Chakarvorty, K. Yee, W. L. Lim, X. Liu, T. Wojtowicz, J. K. Furdyna, and M. Dobrowolska, *Physics of Semiconductors: AIP Conference Proceedings*, Edited by J. Menendez and C.G. Van de Walle, Vol. 772 (Melville, NY, 2005), p. 361.
553. Optical orientation and alignment of excitons in self-assembled CdSe/ZnSe quantum dots: The role of excited states, Yu.G. Kusrayev, A.V. Koudinov, B.P. Zakharchenya, S. Lee, J.K. Furdyna, and M. Dobrowolska, *Phys. Rev. B* **72**, Art. No. 155301 (2005).
554. Polar Kerr effect studies of $\text{Ga}_{1-x}\text{Mn}_x\text{As}$ epitaxial films, R. Lang, A. Winter, H. Pascher, H. Krenn, X. Liu, J.K. Furdyna, *Physical Review B* **72**, Art. No. 024430 JUL (2005).
555. Control of spin state in CdSe quantum dots by coupling with magnetic semiconductor quantum dots, E. Oh, D.G. Choi, S. Kim, S. Lee, J.K. Furdyna, D.G. Oh, *Solid State Communications* **135**, 471-474 (2005).
556. Effect of spin-dependent Mn^{2+} internal transitions in $\text{CdSe}/\text{Zn}_{1-x}\text{Mn}_x\text{Se}$ magnetic semiconductor quantum dot systems, S. Lee, M. Dobrowolska, J.K. Furdyna, *Physical Review B* **72**, Art. No. 075320 (2005).
557. Andreev reflection and pair-breaking effects at the superconductor/magnetic semiconductor interface, R.P. Panguluri, K.C.vKu, T. Wojtowicz, X. Liu, J.K. Furdyna, Y.B. Lyanda-Geller, N. Samarth, B. Nadgorny, *Physical Review B* **72**, Art. No. 054510 (2005).

558. Zero- and one-dimensional magnetic traps for quasiparticles in diluted magnetic semiconductors, P. Redlinski, T. Wojtowicz, T.G. Rappoport, A. Libal, J.K. Furdyna, B. Janko, *Physical Review B* **72**, Art. No. 085209 (2005).
559. Electrical, Magnetic and Magneto-optical Properties of Bulk (Zn,Mn)Te Semimagnetic Semiconductor Doped with Phosphorus, Van Khoi Le, R.R. Galazka, M. Dobrowolska, K. Yee, X. Liu, W-L. Lin, J.K. Furdyna, T.M. Giebultowicz, *Physics of Semiconductors: AIP Conference Proceedings*, Edited by J. Menendez and C.G. Van de Walle, Vol. **772** (Melville, NY, 2005), p. 337.
560. Magnetic anisotropy of strain-engineered InMnAs ferromagnetic films and easy-axis manipulation from out-of-plane to in-plane orientations, X. Liu, W.L. Lim, Z. Ge, S. Shen, T. Wojtowicz, M. Dobrowolska, and J.K. Furdyna, *Physics of Semiconductors: AIP Conference Proceedings*, Edited by J. Menendez and C.G. Van de Walle, Vol. **772** (Melville, NY, 2005), p. 367.
561. Enhancement of spin polarization in asymmetric double quantum dot configurations involving diluted magnetic semiconductors, S. Lee, M. Dobrowolska, and J.K. Furdyna, *Physics of Semiconductors: AIP Conference Proceedings*, Edited by J. Menendez and C.G. Van de Walle, Vol. **772** (Melville, NY, 2005), p. 703.
562. Ferromagnetic/DMS hybrid structures: one- and zero-dimensional magnetic traps for quasiparticles, P. Redlinski, T. Wojtowicz, T.G. Rappoport, A. Libal, J.K. Furdyna, and B. Janko, *Physics of Semiconductors: AIP Conference Proceedings*, Edited by J. Menendez and C.G. Van de Walle, Vol. **772** (Melville, NY, 2005), p. 1291.
563. Magnetic circular dichroism in ZnSe/Ga_{1-x}Mn_xAs hybrid structures with Be and Si co-doping, R. Chakarvorty, K.J. Yee, X. Liu, P. Redlinski, M. Kutrowski, L.V. Titova, T. Wojtowicz, J.K. Furdyna, B. Janko, M. Dobrowolska, *Physics of Semiconductors: AIP Conference Proceedings*, Edited by J. Menendez and C.G. Van de Walle, Vol. **772** (Melville, NY, 2005), p. 1337.
564. Exciton Spin Relaxation in Symmetric Self-Assembled Quantum Dots, S. Mackowski, T. Gurung, H.E. Jackson, L.M. Smith, G. Karczewski, J. Kossut, M. Dobrowolska, and J.K. Furdyna, *Physics of Semiconductors: AIP Conference Proceedings*, Edited by J. Menendez and C.G. Van de Walle, Vol. **772** (Melville, NY, 2005), p. 1357.
565. Optically-Generated Many Spin Entanglement in a Quantum Well, J. Bao, A.V. Bragas, J.K. Furdyna, and R. Merlin, *Physics of Semiconductors: AIP Conference Proceedings*, Edited by J. Menendez and C.G. Van de Walle, Vol. **772** (Melville, NY, 2005), p. 1429.

566. Competition between cubic and uniaxial anisotropy in $\text{Ga}_{1-x}\text{Mn}_x\text{As}$ in the low-Mn-concentration limit, L.V. Titova, M.M. Kutrowski, X. Liu, R. Chakarvorty, W.L. Lim, T. Wojtowicz, J.K. Furdyna, M. Dobrowolska, *Physical Review B* **72**, Art. No. 165205 (2005).
567. Carrier relaxation processes in magnetic semiconductor quantum-dot systems S. Lee, M. Dobrowolska, J.K. Furdyna, *Journal of the Korean Physical Society* **47**, 688-691 (2005).
568. Electron paramagnetic resonance shift in $\text{III}_{1-x}\text{Mn}_x\text{VI}$ diluted magnetic semiconductors in the presence of strong exchange coupling, A.D. McCarty, A.K. Hassan, L.C. Brunel, K. Dziatkowski, J.K. Furdyna, *Physical Review Letters* **95**, Art. No. 157201 (2005).
569. Perpendicular magnetization reversal, magnetic anisotropy, multistep spin switching, and domain nucleation and expansion in $\text{Ga}_{1-x}\text{Mn}_x\text{As}$ films, X. Liu, W.L. Lim, L.V. Titova, M. Dobrowolska, J.K. Furdyna, M. Kutrowski, T. Wojtowicz, *Journal of Applied Physics* **98**, Art. No. 063904 (2005).
570. Doping effect on the properties of III-V ferromagnetic semiconductor GaMnAs epilayers and their superlattices, S. Lee, S.J. Chung, X. Liu, J.K. Furdyna, *Journal of the Korean Physical Society* **47**, 444-447 (2005).
571. Local structure of Mn in (Ga,Mn)As probed by X-ray absorption spectroscopy, R. Bacewicz, A. Twarog, A. Malinowska, T. Wojtowicz, X. Liu, J.K. Furdyna, *Journal of Physics and Chemistry Of Solids* **66**, 2004-2007 (2005).
572. Optical studies of carrier and phonon dynamics in $\text{Ga}_{1-x}\text{Mn}_x\text{As}$, K.J. Yee, D. Lee, X. Liu, W.L. Lim, M. Dobrowolska, J.K. Furdyna, Y.S. Lim, K.G. Lee, Y.H. Ahn, D.S. Kim, *Journal of Applied Physics* **98**, Art. No. 113509 (2005).
573. Magnetic scattering of spin polarized carriers in (In,Mn)Sb dilute magnetic semiconductor, M. Csontos, T. Wojtowicz, X. Liu, M. Dobrowolska, B. Janko, J.K. Furdyna, G. Mihaly, *Physical Review Letters* **95**, Art. No. 227203 (See also 269902).(2005).
574. Carrier relaxation processes in magnetic semiconductor quantum-dot systems, S. Lee, M. Dobrowolska, J.K. Furdyna, *Journal of The Korean Physical Society* **47**, 688-691 (2005).
575. Doping effect on the properties of III-V ferromagnetic semiconductor GaMnAs epilayers and their superlattices, C. Lee, S.J. Chung, X. Liu, J.K. Furdyna, *Journal of The Korean Physical Society* **47**, 444-447 (2005).

2006

576. Dynamic longitudinal-optical phonon decay via transient electron-phonon interactions in low-temperature-grown GaAs, K.J. Yee, D. Lee, X. Liu, M. Dobrowolska, J.K. Furdyna, K.G. Lee, D.S. Kim, Y.S. Lim, *Applied Physics Letters* **88**, Art. No. 121904 (2006).
577. Inter-dot spin exchange interaction in coupled II-VI semiconductor quantum dots, S. Lee, M. Dobrowolska, J.K. Furdyna, *Physica Status Solidi B-Basic Solid State Physics* **243**, 799-804 (2006).
578. Identification of unidirectional anisotropy in exchange-biased MnO/GaMnAs bilayers using ferromagnetic resonance, K. Dziatkowski, Z. Ge, X. Liu, J.K. Furdyna, *Applied Physics Letters* **88**, Art. No. 142513 (2006).
579. Determination of antiferromagnetic interactions in Zn(Mn)O, Zn(Co)O, and Zn(Mn)Te by inelastic neutron scattering, S. Kolesnik, B. Dabrowski, Z.Q. Wiren, H. Kepa, T.M. Giebultowicz, C.M. Brown, J. Leao, J.K. Furdyna, *Journal of Applied Physics* **99**, Art. No. 08M122 (2006).
580. Spin relaxation of excitons in nonmagnetic quantum dots: Effect of spin coupling to magnetic semiconductor quantum dots, S. Lee, M. Dobrowolska, J.K. Furdyna, *Journal of Applied Physics* **99**, Art. No. 08F702 (2006).
581. Transport properties of ferromagnetic GaMnAs interfaced with paramagnetic ZnMnSe in the form of bilayer structures, I.S. Choi, S.Y. An, S.J. Chung, S. Lee, X. Liu, J.K. Furdyna, *Journal of Applied Physics* **99**, Art. No. 08D512 (2006).
582. Dynamic spin-spin interactions in magnetically concentrated III- x MnxVI semiconductors: A study by high-field electron paramagnetic resonance, A.D. McCarty, A.K. Hassan, L.C. Brunel, K. Dziatkowski, J.K. Furdyna, *Journal of Applied Physics* **99**, Art. No. 08D506 (2006).
583. Investigation of magnetocrystalline anisotropy by planar Hall effect in GaMnAs epilayers grown on vicinal GaAs substrates, W.L. Lim, X. Liu, K. Dziatkowski, Z. Ge, S. Shen, J.K. Furdyna, M. Dobrowolska, *Journal of Applied Physics* **99**, Art. No. 08D505 (2006).
584. Contactless electroreflectance studies of the band filling effect in Ga $_{1-x}$ MnxAs, C.S. Lee, C.C. Chang, Y.H. Chang, Y.T. Liu, Y.S. Huang, J.K. Furdyna, *Physica E-Low-Dimensional Systems & Nanostructures* **32**, 387-390 (2006).
585. Enhancement of spin polarization in asymmetrically coupled CdSe and CdZnMnSe quantum dots in ZnSe matrix, S. Lee, M. Dobrowolska, J.K. Furdyna, *Physica E-Low-Dimensional Systems & Nanostructures* **32**, 367-370 (2006).

586. Temperature-dependent photoluminescence of vertically stacked self-assembled CdSe quantum dots in ZnSe, X. Liu, M. Dobrowolska, J.K. Furdyna, S. Lee, *Physica E-Low-Dimensional Systems & Nanostructures* **32**, 65-68 (2006).
587. Ferromagnetic resonance investigations on Ga_{0.965}Mn_{0.035}As film, S. Balascuta, X. Liu, D.V. Baxter, J. Carini, T. Wojtowicz, Y. Sasaki, J. Furdyna, M. Chipara, *Journal of Applied Physics* **99**, Art. No. 113908 (2006).
588. Effect of point defect and Mn concentration in time-resolved differential reflection in GaMnAs, S. Kim, E. Oh, J.U. Lee, D.S. Kim, S. Lee, J.K. Furdyna, *Applied Physics Letters* **88**, Art. No. 262101 (2006).
589. Spin relaxation time of CdZnSe/ZnSe self-assembled quantum dots in a magnetic field, S. Lee, M. Dobrowolska, J.K. Furdyna, *Journal of The Korean Physical Society* **49**, 221-226 (2006).
590. CdSe self-assembled quantum dots grown on ZnMnSe diluted magnetic semiconductors with different Mn concentration, S. Lee, M. Dobrowolska, J.K. Furdyna, *Journal of Crystal Growth* **292**, 311-314 (2006).
591. Effect of magnetic anisotropy on the transverse planar Hall resistance of Ga_{1-x}Mn_xAs films grown on vicinal GaAs substrates, W.L. Lim, X. Liu, K. Dziatkowski, Z. Ge, S. Shen, J.K. Furdyna, M. Dobrowolska, *Physical Review B* **74**, Art. No. 045303 (2006).
592. Ferromagnetic resonance in Ga_{1-x}Mn_xAs dilute magnetic semiconductors, X.Y. Liu, J.K. Furdyna, *Journal of Physics-Condensed Matter* **18**, R245-R279 (2006).
593. Time-resolved photoluminescence in CdSe/CdZnSe and CdSe/CdMnSe coupled quantum dot structures, E. Oh, D.G. Choi, S. Kim, T.K. Lee, J.H. Park, S. Lee, J.K. Furdyna, *Journal of the Korean Physical Society* **49**, 614-618 (2006).
594. Asymmetric magnetization reversal in the exchange-biased MnO/(Ga,Mn)As heterostructure studied by ferromagnetic resonance, K. Dziatkowski, Z. Ge, X. Liu, J. K. Furdyna, and A. Twardowski, *Acta Physica Polonica A* **110**, 319-324 (2006).
595. Near-bandgap wavelength dependence of long-lived traveling coherent longitudinal acoustic phonons in GaSb-GaAs heterostructures, J. K. Miller, J. Qi, Y. Xu, Y. J. Cho, X. Liu, J. K. Furdyna, I. Perakis, T. V. Shahbazyan, and N.Tolk, *Physical Review B* **74**, Art. No. 113313 (2006).
596. Inelastic neutron scattering from antiferromagnetically coupled nearest-neighbor spin pairs in Zn(Mn)O and Zn(Mn)Te, H. Kepa, S. Kolesnik, Z. Wiren, J. Leao, C. M. Brown, B. Dabrowski, J. K. Furdyna, and T. M. JK Giebultowicz, *Physica B - Condensed Matter* **385** Part 1, 388-390 (2006).

597. Magnetic and chemical nonuniformity in Ga_{1-x}Mn_xAs films as probed by polarized neutron and x-ray reflectometry, B. J. Kirby, J. A. Borchers, J. J. Rhyne, K. V. O'Donovan, S. G. E. te Velthuis, S. Roy, C. Sanchez-Hanke, T. Wojtowicz, X. Liu, W. L. Lim, M. Dobrowolska, and J. K. Furdyna, *Physical Review B* **74**, Art. No. 245304 (2006).

2007

598. Magnetization reversal in (Ga,Mn)As/MnO exchange-biased structures: Investigation by planar Hall effect, Z. Ge, W. L. Lim, S. Shen, Y. Y. Zhou, X. Liu, J. K. Furdyna, and M. Dobrowolska, *Physical Review B* **75**, 014407 (2007).
599. Valence-band anticrossing in mismatched III-V semiconductor alloys, K. Alberi, J. Wu, W. Walukiewicz, K. M. Yu, O. D. Dubon, S. P. Watkins, C. X. Wang, X. Liu, Y.-J. Cho, and J. K. Furdyna, *Physical Review B* **76**, 045203 (2007).
600. Stable structures formed in the process of magnetization reversal in GaMnAs ferromagnetic semiconductor thin films, D. Y. Shin, S. J. Chung, Sanghoon Lee, X. Liu, and J. K. Furdyna, *Physical Review Letters* **98**, 047201 (2007).
601. Zeeman mapping of exciton localization in self-assembled CdSe quantum dots using diluted magnetic semiconductors, S. Lee, M. Dobrowolska, and J. K. Furdyna, *Solid State Commun.* **141**, 311-315 (2007).
602. Control of coherent phonon decay in GaAs by using a secondary pump pulse, K. J. Han, J.H. Kim, D.W. Jang, K.J. Yee, X. Liu, J.K. Furdyna, and Y.S. Lim, *Journal of the Korean Physical Society* **50**, 781-784 (2007)
603. Spin-polarized photorefectance in ferromagnetic GaMnAs, J.H. Kim, K.J. Han, D.W. Jang, K.J. Yee, X. Liu, and J.K. Furdyna, *Journal of the Korean Physical Society* **50**, 819-823 (2007).
604. Magneto-optical properties of non-magnetic semiconductor quantum dot and magnetic quantum well coupled structures, S. Lee, M. Dobrowolska, and J.K. Furdyna, *Journal of the Korean Physical Society* **50**, 824-828 (2007).
605. Strain-engineered magnetic anisotropy of GaMnAs ferromagnetic semiconductors, T. Kim, S.J. Chung, D.Y. Shin, I.S. Choi, S. Lee, X. Liu, and J.K. Furdyna, *Journal of the Korean Physical Society* **50**, 829-833 (2007).
606. Photoluminescence of Zn_{1-x}BexSe films grown by using molecular beam epitaxy, Y. Hwang, H. Kim, Y. Um, Y and J.K. Furdyna, *Journal of the Korean Physical Society* **50**, 858-861 (2007).

607. Relaxation of Photoinduced Spins and Carriers in Ferromagnetic InMnSb Films, K. Nontapot, R. N. Kini, A. Gifford, T. R. Merritt, G. A. Khodaparast, T. Wojtowicz, X. Liu, and J. K. Furdyna, *Applied Physics Letters* 90, 143109 (2007).
608. Magnetization-induced optical nonlinearity in ferromagnetic GaMnAs, K.J. Han, J. H. Kim, K. J. Yee, J. K. Furdyna, X. Liu, and F. Hache, *Journal of Applied Physics* 101, 063519 (2007).
609. Control of coherent magnetization precession in GaMnAs by ultrafast optical excitation, J. Qi, Y. Xu, X. Liu, J. K. Furdyna, I. E. Perakis, and N. Tolk, *Proc. SPIE* 6839, 68390J (2007).
610. Ultrafast Enhancement of Ferromagnetism via Photoexcited Holes in GaMnAs, J. Wang, I. Cotoros, K. M. Dani, X. Liu, J. K. Furdyna, D. S. Chemla, *Phys. Rev. Lett.* 98, 217401 (2007)
611. Tunable quaternary states in ferromagnetic semiconductor GaMnAs single layer for memory devices, S. Lee, D. Y. Shin, S. J. Chung, X. Liu, J. K. Furdyna, *Appl. Phys. Lett.* 90, 152113 (2007).
612. Ultrafast optical study of magnons in the ferromagnetic semiconductor GaMnAs, D.M. Wang, Y.H. Ren, X. Liu, J.K. Furdyna, M. Grimsditch, and R. Merlin, *Superlattices and Microstructures* 41, 372–375 (2007)
613. Growth and magneto-optical properties of CdSe/ZnMnSe self-assembled quantum dots, S. Lee, M. Dobrowolska, and J. K. Furdyna, *Journal of Crystal Growth* 301, 781-784 (2007).
614. Localization and inter-dot carrier transfer in CdSe and CdZnMnSe quantum dots determined by cw and time-resolved photoluminescence, J. H. Park, D. G. Choi, T. K. Lee, Eunsoon Oh, S. Lee, and J. K. Furdyna, *Appl. Phys. Lett.* 90, 201916 (2007).
615. Unique properties of magnetotransport in GaMnAs films grown on vicinal and high-index planes, X. Liu, J.K. Furdyna, M. Dobrowolska, W.L. Lim, C. Xie, and Y.-J. Cho, *Journal of Physics -- Condensed Matter* 19, Art. No. 165205 (2007)
616. Determination of Mn acceptor compensation in MBE-grown GaMnAs via magnetic circular dichroism (MCD), R. Chakarvorty, Y.-Y. Zhou, Y.-J. Cho, X. Liu, R. Jakiela, A. Barcz, J. K. Furdyna, and M. Dobrowolska, *IEEE Transactions on Magnetics* 43, 3031-3033 (2007).
617. Precise investigation of domain pinning energy in GaMnAs using planar Hall effect and magnetoresistance measurements, D.Y. Shin, S.J. Chung, S. Lee, X. Liu, and J. K. Furdyna, *IEEE Transactions on Magnetics* 43, 3025-3027 (2007).

618. Magnetic anisotropy, spin pinning, and exchange constants of (Ga,Mn)As films, Y.-Y. Zhou, Y.-J. Cho, Z. Ge, X. Liu, M. Dobrowolska, and J. K. Furdyna, *IEEE Transactions on Magnetics* 43, 3019-3021 (2007).
619. Temperature dependence of exchange bias and coercivity in (Ga,Mn)As-MnO bilayer structures, Z. Ge, W.-L. Lim, Y.-J. Cho, X. Liu, J. K. Furdyna, and M. Dobrowolska, *IEEE Transactions on Magnetics* 43, 3013-3015 (2007).
620. Angular dependence of spin-wave resonances and surface spin pinning in ferromagnetic (Ga,Mn)As films, X. Liu, Y.-Y. Zhou, and J.K. Furdyna, *Physical Review B* 75, Art. No. 195220 (2007).
- 620a. Erratum: Angular dependence of spin-wave resonances and surface spin pinning in ferromagnetic (Ga,Mn)As films [Phys. Rev. B 75, 195220 (2007)] X. Liu, Y. Y. Zhou, and J. K. Furdyna, *Phys. Rev. B* 77, 089903 (2008).
621. Light-induced magnetic precession in (Ga,Mn)As slabs: Hybrid standing-wave Damon-Eshbach modes, D. M. Wang, Y. H. Ren, X. Liu, J. K. Furdyna, M. Grimsditch, and R. Merlin, *Phys. Rev. B* 75, 233308 (2007).
622. Electroluminescence studies of (Ga,Mn)As-based p-i-n structures, Z. Ge, W. L. Lim, R. Chakarvorty, S. Shen, X. Liu, J. K. Furdyna, and M. Dobrowolska, *J. Appl. Phys.* 102, 054507 (2007).
623. Spin-Dependent Resonant Tunneling through 6 micron Diameter Double Barrier Resonant Tunneling Diode, Zaili Fang, Phillip Wu, Nathan Kundtz, Xinyu Liu, Jacek K. Furdyna, Albert Chang, *Appl. Phys. Lett.* 91, 022101 (2007).
624. Coherent magnetization precession in GaMnAs induced by ultrafast optical excitation, J. Qi, Y. Xu, N. H. Tolk, X. Liu, J. K. Furdyna, and I. E. Perakis *Appl. Phys. Lett.* 91, 112506 (2007).
625. Temperature dependence of magnetic anisotropy in ferromagnetic (Ga,Mn)As films: Investigation by the planar Hall effect, D. Y. Shin, S. J. Chung, S. Lee, X. Liu, and J. K. Furdyna, *Physical Review B* 76, 035327 (2007).
626. Enhancement of magnetic field in superconductor and magnetic semiconductor quantum well hybrid structure, S. Lee, D. Y. Shin, E. K. Hyun, S. R. Lee, M. Dobrowolska, and J. K. Furdyna, *Journal of Crystal Growth* 301, 906-909 (2007).
627. Pinned spin depth profile of an oxidized-Mn/Ga_{1-x}MnxAs exchange bias bilayer - The effects of overannealing, B. J. Kirby, M. R. Fitzsimmons, J. A. Borchers, Z. Ge, X. Liu, and J. K. Furdyna, *IEEE Transactions On Magnetics*, 43, 3016-3018 (2007).

628. Time stability of multi-domain states formed in the magnetization reversal process of GaMnAs film, S. J. Chung, Shin, D. Y. Shin, H. Son, S. Lee, X. Liu, and J. K. Furdyna, *Solid State Communications* 143, 232-235 (2007).
629. Ferromagnetic resonance study of exchange coupled (Ga,Mn)As/GaAs/(Ga,Mn)As heterostructures, K. Dziatkowski, Z. Ge, X. Liu, J. K. Furdyna, B. Clerjoud, and A. Twardowski, *Acta Physica Polonica A* 112, 227-232 (2007).
630. Investigation of magnetic and electronic coupling between two (Ga,Mn)As layers in (Ga,Mn)As/GaAs/(Ga,Mn)As magnetic tunnel junctions, Z. Ge, Y. Y. Zhou, Y.-J. Cho, X. Liu, J. K. Furdyna, and M. Dobrowolska, *Applied Physics Letters* 91, Art. No. 152109 (2007).
631. Common origin of ferromagnetism and band edge Zeeman splitting in GaMnAs at low Mn concentrations, R. Chakarvorty, S. Shen, K. J. Yee, T. Wojtowicz, R. Jakiela, A. Barcz, X. Liu, J. K. Furdyna, and M. Dobrowolska, *Applied Physics Letters* 91, Art. No. 171118 (2007).
632. Definitive evidence of interlayer coupling between Ga_{1-x}Mn_xAs layers separated by a nonmagnetic spacer, B. J. Kirby, J. A. Borchers, X. Liu, Z. Ge, Y.-J. Cho, M. Dobrowolska, and J. K. Furdyna, *Physical Review B* 76, Art. No. 205316 (2007).
633. Spatially resolved pump-probe second harmonic generation study of multilayer semiconductor heterostructures, Y. D. Glinka, N. H. Tolk, X. Liu, Y. Sasaki, and J. K. Furdyna, *Applied Physics Letters* 91, Art. No. 231104 (2007).
634. Weak localization in Ga_{1-x}Mn_xAs: Evidence of impurity band transport, L. P. Rokhinson, Y. Lyanda-Geller, Z. Ge, S. Shen, X. Liu, M. Dobrowolska, and J. K. Furdyna, *Physical Review B (Rapid Com.)* 76, Art. No. 161201 (2007).
635. Inelastic scattering and spin polarization in dilute magnetic semiconductor (Ga,Mn)Sb, Raghava P. Panguluri, B. Nadgorny, T. Wojtowicz, X. Liu, and J. K. Furdyna, *Applied Physics Letters* 91, 252502 (2007).
636. Kerr Rotation and Magnetic Circular Dichroism in Ferromagnetic InMnSb and InMnAs, A. Winter, H. Pascher, H. Krenn, T. Wojtowicz, X. Liu, and J. K. Furdyna, *AIP Conf. Proc.* 893, 1223 (2007).
637. Magnetic cluster phases of Mn-interstitial-free (Ga,Mn)As, Y. J. Cho, M. A. Scarpulla, X. Liu, Y. Y. Zhou, O. D. Dubon, and J. K. Furdyna, *AIP Conf. Proc.* 893, 1221 (2007).
638. Ferromagnetic Resonance Study of Ultra-thin Ga_{1-x}Mn_xAs Films as a Function of Layer Thickness, Y. Y. Zhou, Y. J. Cho, Z. Ge, X. Liu, M. Dobrowolska, and J. K. Furdyna, *AIP Conf. Proc.* 893, 1213 (2007).

639. Carrier Dynamics and Magnetization-induced Nonlinearity in Ferromagnetic GaMnAs, Ji-Hee Kim, Kang-Jeon Han, Ki-Ju Yee, X. Liu, J. K. Furdyna, and Y. S. Lim, AIP Conf. Proc. 893, 1207 (2007).
640. The optical properties of (Mn,Ga)As and (Be,Ga)As, C. S. Lee, C. C. Chang, M. F. Shih, C. C. Huang, Y. H. Chang, H. H. Lin, T. C. Ma, and J. K. Furdyna, AIP Conf. Proc. 893, 1205 (2007).
641. Studies of intrinsic exchange interactions in Zn(Mn)O, Zn(Mn)S and Zn(Mn)Te at 4 kbar by inelastic neutron scattering, Z. Q. Wiren, H. Kepa, C. M. Brown, J. Leao, S. Kolesnik, B. Dabrowski, J. K. Furdyna, and T. M. Giebultowicz, AIP Conf. Proc. 893, 1197 (2007).
642. Ultrafast Magneto-Optical Kerr Study of Standing Spin Waves in Ferromagnetic GaMnAs Films, D. M. Wang, Y. H. Ren, X. Liu, Y. J. Cho, J. K. Furdyna, M. Grimsditch, and R. Merlin, AIP Conf. Proc. 893, 1175 (2007).

2008

643. Time Resolved Magneto-Optical Studies of Ferromagnetic InMnSb Films, M. Frazier, R. Kini, K. Nontapot, T. Wojtowicz, X. Liu, J. K. Furdyna, and Giti Khodaparast, Applied Physics Letters 92, 061911 (2008).
644. Nanoscale spin-polarization in dilute magnetic semiconductor (In,Mn)Sb, A. Geresdi, A. Halbritter, M. Csontos, Sz. Csonka, G. Mihaly, T. Wojtowicz, X. Liu, B. Janko, and J.K. Furdyna, Phys. Rev. B. **77**, 233304 (2008).
645. Scaling of the anomalous Hall effect in low Mn concentration (Ga,Mn)As S. Shen, X. Liu, Z. Ge, J. K. Furdyna, M. Dobrowolska, and J. Jaroszynski J. Appl. Phys. 103, 07D134 (2008).
646. Vanishing of ferromagnetic order in (Ga,Mn)As films at high hole concentrations: beyond the mean field Zener model, Y. J. Cho, X. Liu, and J. K. Furdyna J. Appl. Phys. 103, 07D132 (2008).
647. Effect of shape anisotropy on the magnetization reversal process of (Ga,Mn)As ferromagnetic semiconductors, Taehee Yoo, Dongyun Shin, Jungtaek Kim, Hyungchan Kim, Sanghoon Lee, X. Liu, and J. K. Furdyna, J. Appl. Phys. 103, 07D119 (2008).
648. Thickness dependence of magnetic domain pinning energy in GaMnAs ferromagnetic semiconductor films, Sun-Young Yea, Sun-Jae Chung, Hyunji Son, Sanghoon Lee, X. Liu, and J. K. Furdyna, J. Appl. Phys. 103, 07D118 (2008).
649. Quantitative investigation of the magnetic anisotropy in GaMnAs film by using Hall measurement, Hyunji Son, Sun-jae Chung, Sun-young Yea, Sanghoon Lee, X. Liu, and J. K. Furdyna, J. Appl. Phys. 103, 07F313 (2008).

650. Magnetization reversal of Ga_{1-x}Mn_xAs layers separated by a nonmagnetic spacer, B. J. Kirby, J. A. Borchers, X. Liu, Z. Ge, Y. J. Cho, M. Dobrowolska, and J. K. Furdyna, *J. Appl. Phys.* **103**, 07D116 (2008).
651. Single and multidomain characteristics of GaMnAs investigated by magnetotransport measurements Jungtaek Kim, D. Y. Shin, Taehee Yoo, Hyungchan Kim, Sanghoon Lee, X. Liu, and J. K. Furdyna, *J. Appl. Phys.* **103**, 07D101 (2008).
652. Hot-phonon-assisted absorption at semiconductor heterointerfaces monitored by pump-probe second-harmonic generation, Y. D. Glinka, N. H. Tolk, X. Liu, Y. Sasaki, and J. K. Furdyna, *Phys. Rev. B* **77**, 113310 (2008).
653. Electro-optic nature of ultrafast pump-probe reflectivity response from multilayer semiconductor heterostructures, Y. D. Glinka, N. H. Tolk, X. Liu, Y. Sasaki, and J. K. Furdyna, *J. Appl. Phys.* **103**, 043708 (2008).
654. Ultrafast photo-enhanced ferromagnetism in GaMnAs, Jigang Wang, Ingrid Cotoros, Xinyu Liu, Jacek K. Furdyna, and Daniel S. Chemla, *Proc. SPIE* **6892**, 68920Q (2008).
655. Anomalous hall effect in the (In,Mn)Sb dilute magnetic semiconductor, G. Mihaly, M. Csontos, S. Bordacs, I. Kezsmarki, T. Wojtowicz, X. Liu, B. Janko, J.K. Furdyna, *Physical Review Letters* **100**, Art. No. 107201 (2008).
656. Magneto-transport properties of a GaMnAs-based ferromagnetic semiconductor trilayer structure grown on a ZnMnSe buffer, S.J. Chung, D.Y. Shin, H. Kim, S. Lee, X. Liu, J.K. Furdyna, *Journal of Electronic Materials* **37**, 912-916 (2008).
657. Spin-polarizable excitonic luminescence in colloidal Mn²⁺-doped CdSe quantum dots, R. Beaulac, P.I. Archer, X. Liu, S. Lee, G.M. Salley, M. Dobrowolska, J.K. Furdyna, D.R. Gamelin, *Nano Letters* **8**, 1197-1201 (2008).
658. An extensive comparison of anisotropies in MBE grown (Ga, Mn)As material C. Gould, S. Mark, K. Pappert, R.G. Dengel, J. Wenisch, R.P. Champion, A.W. Rushforth, D. Chiba, Z. Li, X. Liu, W. Van Roy, H. Ohno, J.K. Furdyna, B. Gallagher, K. Brunner, G. Schmidt, L.W. Molenkamp, *New Journal of Physics* **10**, Art. No. 055007 (2008).
659. GaMnAs-based hybrid multiferroic memory device, M. Overby, A. Chernyshov, L.P. Rokhinson, X. Liu, J.K. Furdyna, *Applied Physics Letters* **92**, Art. No. 192501 (2008).

660. Spatially resolved inhomogeneous ferromagnetism in (Ga,Mn)As diluted magnetic semiconductors: A microscopic study by muon spin relaxation V.G. Storchak, D.G. Eshchenko, E. Morenzoni, T. Prokscha, A. Suter, X. Liu, J.K. Furdyna, *Physical Review Letters* **101**, Art. No. 027202 (2008)
661. Influence of resonant excitation and carrier lifetime on the optical properties of coupled CdSe quantum dots, Eunsoon Oh, D.G. Choi, J.H. Park, T.K. Lee, S. Lee, J.K. Furdyna, *Journal of the Korean Physical Society* **53**, 106-109 (2008).
662. Ultrafast optical control of coercivity in GaMnAs, K.C. Hall, J.P. Zahn, A. Gamouras, S. March, J.L. Robb, X. Liu, J.K. Furdyna, *Applied Physics Letters* **93**, Art. No. 032504 (2008).
663. Formation of Mn-derived impurity band in III-Mn-V alloys by valence band anticrossing, K. Alberi, K.M. Yu, P.R. Stone, O.D. Dubon, W. Walukiewicz, T. Wojtowicz, X. Liu, and J.K. Furdyna, *Phys. Rev. B* **78**, 075201 (2008).
664. Distribution of magnetic domain pinning fields in Ga_{1-x}Mn_xAs ferromagnetic films, Jungtaek Kim, D.Y. Shin, Sanghoon Lee, X. Liu, and J.K. Furdyna, *Phys. Rev. B* **78**, 075309 (2008).
665. Magnetoresistance near the ferromagnetic-paramagnetic phase transition in magnetic semiconductors, B. Brodowska, I. Kuryliszyn-Kudelska, T. Wojtowicz, M. Arciszewska, W. Dobrowolski, E.I. Slynko, V.E. Slynko, X. Liu, and J.K. Furdyna, *Appl. Phys. Lett.* **93**, 042113 (2008).
666. Two-step versus one-step model of the interpolarization conversion and statistics of CdSe/ZnSe quantum dot elongations, A.V. Koudinov, B.R. Namozov, Yu. G. Kusrayev, S. Lee, M. Dobrowolska, and J.K. Furdyna, *Phys. Rev. B* **78**, 045309 (2008).
667. Magnetic anisotropy of ferromagnetic Ga_{1-x}Mn_xAs formed by Mn ion implantation and pulsed-laser melting, Y. J. Cho, M.A. Scarpulla, Y.Y. Zhou, Z. Ge, X. Liu, M. Dobrowolska, K.M. Yu, O.D. Dubon, and J.K. Furdyna, *J. Appl. Phys.* **104**, 043902 (2008).
668. Effect of chemical etching on magnetic anisotropy of ferromagnetic GaMnAs films studied by planar Hall effect, S.Y. Yea, S.J. Chung, H. Son, D.Y. Shin, S. Lee, X. Liu, and J.K. Furdyna, *Solid State Communications* **147** 309-312 (2008).
669. Ferromagnetism and spin dynamics in III_{1-x}Mn_xV alloys, J.K. Furdyna, M. Dobrowolska and X. Liu, *Nanotechnology Perceptions* **4**, 135-146 (2008).
670. Influence of Growth Break before Capping on Photoluminescence Dynamics of CdSe/ZnSe Self-Assembled Quantum Dots, S. Nowak, J. Suffczynski, M. Goryca, P. Kossacki, J.A. Gaj, S. Lee, and J.K. Furdyna, *Acta Physica Polonica A* **114**, 1267-1271 (2008).

671. Optical Properties of Self-Assembled Quantum Dots in Single and Double-Layer Configurations, H.C. Kim, S. Lee, Y.-J. Cho, M. Dobrowolska, and J.K. Furdyna, *Journal of the Korean Physical Society* **53**, 2816-2820 Part 2 Sp. Iss. SI (2008).
672. Fermi Level Effects on Mn Incorporation in III-Mn-V Ferromagnetic Semiconductors, K. M. Yu, T. Wojtowicz, W. Walukiewicz, X. Liu, J. K. Furdyna, *SPINTRONICS*, p. 89, Book series title: *Semiconductors And Semimetals*, Elsevier, 2008.
673. Collapse of ferromagnetism in (Ga, Mn) as at high hole concentrations, Y.J.Cho, X. Liu, J.K. Furdyna, *Semiconductor Science and Technology* **23**, Art. No. 125010 (2008).
674. Effects of donor doping on $\text{Ga}_{1-x}\text{Mn}_x\text{As}$, Y.J. Cho, K.M. Yu, X. Liu, W. Walukiewicz, and J.K. Furdyna, *Appl. Phys. Lett.* **93**, 262505.
675. Carrier-Mediated Antiferromagnetic Interlayer Exchange Coupling in Diluted Magnetic Semiconductor Multilayers $\text{Ga}(1-x)\text{Mn}(x)\text{As}/\text{GaAs}:\text{Be}$, J.H. Chung, S.J. Chung, S. Lee, B.J. Kirby, J.A. Borchers, Y.-J. Cho, X. Liu, and J.K. Furdyna, *Physical Review Letters* **101**, Art. No. 237202 (2008).
676. Lattice-matched ZnTe and CdZnTe/ZnTe heterostructures grown on GaSb for multijunction solar cell applications, S. Wang, X. Liu, D. Ding, S.N. Wu, S.R. Johnson, S.Q. Yu, J.K. Furdyna, Y.H. Zhang, 2008 33RD IEEE PHOTOVOLTAIC SPECIALISTS CONFERENCE, VOLS 1-4, 1465-1468 (2008). Book series title: IEEE Photovoltaic Specialists Conference

2009

677. Memory effects in photoinduced femtosecond magnetization rotation in ferromagnetic GaMnAs, J. Wang, I. Cotoros, D.S. Chemla, X. Liu, J.K. Furdyna, J. Chovan, and I.E. Perakis, *Applied Physics Letters* **94**, Art. No. 021101 (2009).
678. Comment on "Origin of the Anomalous Magnetic Circular Dichroism Spectral Shape in Ferromagnetic $\text{Ga}(1-x)\text{Mn}(x)\text{As}$: Impurity Bands inside the Band Gap," M. Dobrowolska, X. Liu, and J.K. Furdyna, *Physical Review Letters* **102**, Art. No. 069701 (2009).
679. Magnetic excitations in ferromagnetic semiconductors, J.K. Furdyna, X. Liu, and Y.Y. Zhou, *Journal of Magnetism and Magnetic Materials* **321**, 695-698 (2009).
680. Ultrafast laser-induced coherent spin dynamics in ferromagnetic $\text{Ga}_{1-x}\text{Mn}_x\text{As}/\text{GaAs}$ structures, J. Qi, Y. Xu, A. Steigerwald, X. Liu, J.K. Furdyna, I.E. Perakis, and N.H. Tolk, *Physical Review B* **79**, Art. No. 085304 (2009).

681. Monitoring of magnetization processes in GaMnAs ferromagnetic film by electrical transport measurement, D.Y. Shin, S. Lee, X. Liu, and J.K. Furdyna, *Journal of Crystal Growth* **311**, 925-928 (2009).
682. Polarization and excitation power-dependent photoluminescence of magnetic/non-magnetic coupled quantum dots, S. Lee, M. Dobrowolska, and J.K. Furdyna, *Journal of Crystal Growth* **311**, 851-854 (2009).
683. Semiconductor point defect concentration profiles measured using coherent acoustic phonon waves, A. Steigerwald, Y. Xu, J. Qi, J. Gregory, X. Liu, J.K. Furdyna, K. Varga, A.B. Hmelo, G. Luepke, L.C. Feldman, and N. Tolk, *Applied Physics Letters* **94**, 111910 (2009).
684. Step feature observed in the angular dependence of magnetization switching fields in GaMnAs micro-device, T. Yoo, D. Shin, J. Kim, H. Kim, S. Lee, X. Liu, and J.K. Furdyna, *Current Applied Physics* **9**, 773-776 (2009).
685. Ferromagnetic behavior of CdMnCrTe quaternary system, S. Shen, X. Liu, Y.-J. Cho, J.K. Furdyna, M. Dobrowolska, Y.H. Hwang, and Y.H. Um, *Applied Physics Letters* **94**, 142507 (2009)
686. Response to "Comment on 'Common origin of ferromagnetism and band edge Zeeman splitting in GaMnAs at low Mn concentrations'" [Appl. Phys. Lett. 94, 156101 (2009)] R. Chakarvorty, S. Shen, K.J. Yee, T. Wojtowicz, R. Jakiela, A. Barcz, X. Liu, J.K. Furdyna, and M. Dobrowolska, *Applied Physics Letters* **94**, 156102 (2009).
687. Ferromagnetic semiconductor GaMnAs, S. Lee, J.H. Chung, X. Liu, J.K. Furdyna, and B.J. Kirby, *Materials Today* **12**, 14-21 (2009).
688. Beta-detected NMR study of the local magnetic field in epitaxial GaAs:Mn, Q. Song, K.H. Chow, R.I. Miller, I. Fan, M.D. Hossain, R.F. Kiefl, S.R. Kreitzman, C.D.P. Levy, T.J. Parolin, M.R. Pearson, Z. Salman, H. Saadaoui, M. Smadella, D. Wang, K.M. Yu, X. Liu, J.K. Furdyna, and W.A. MacFarlane, *Physica B-Condensed Matter* **404**, 892-895 (2009).
689. Low energy mu SR studies of semiconductor interfaces, D.G. Eshchenko, V.G. Storchak, E. Morenzoni, T. Prokscha, A. Suter, X. Liu, and J.K. Furdyna, *Physica B-Condensed Matter* **404** 873-875 (2009).
690. MBE growth of II-VI materials on GaSb substrates for photovoltaic applications, S. Wang, D. Ding, X. Liu, X.B. Zhang, D.J. Smith, J.K. Furdyna, and Y.H. Zhang, *Journal of Crystal Growth* **311**, 2116-2119 (2009).

691. Kerr Rotation and Magnetic Circular Dichroism Spectra of Ferromagnetic InMnSb AND InMnAs, A. Winter, H. Pascher, M. Hofmayer, H. Krenn, T. Wojtowicz, X. Liu, and J.K. Furdyna, *Reviews on Advanced Materials Science* **20**, 92-100 (2009).
692. Observation of Insulating Nano-islands in Ferromagnetic GaMnAs, D.M. Wang, Y.H. Ren, P.W. Jacobs, S. Fahy, X. Liu, J.K. Furdyna, V.F. Sapega, and R. Merlin, *Phys. Rev. Lett.* **102**, 256401 (2009).
693. Origin of magnetic circular dichroism in GaMnAs: giant Zeeman Splitting vs. spin dependent density of states, M. Berciu, R. Chakarvorty, Y.Y. Zhou, M.T. Alam, K. Traudt, R. Jakiela, A. Barcz, T. Wojtowicz, X. Liu, J.K. Furdyna, and M. Dobrowolska, *Physical Review Letters* **102**, 247202 (2009).
694. Magneto-optical Studies of Spin Phenomena In CdMnTe Doped with Co and Cr, Shaoping Shen, Xinyu Liu, Yongjin Cho, Kritsanu Tivakornsasithorn, Jacek K. Furdyna, Malgorzata Dobrowolska, Y.H. Hwang and Y.H. Um, *Journal of Electronic Materials* **38**, 1554-1557 (2009).
695. Magneto Optical Studies of Cd_{1-x-y}Mn_xCo_yTe, S. Shen, X. Liu, J.K. Furdyna, M. Dobrowolska, Y.Hwang and Y.-H. Um, *J. Appl. Phys.*, **105**, 07A931 (2009).
696. Ultrafast coercivity and magnetization dynamics in GaMnAs, Hall, K.C., Zahn, J.P., March, S., Liu, X., Furdyna, J.K., 2008 Conference on Quantum Electronics and Laser Science (QELS).- Technical Digest Series, Art. no. 4553116 (2009).
697. Structural Characterization of Integrated II-VI and III-V Heterostructures for Solar Cell Applications, X. Zhang, S. Wang, D. Ding, X. Liu, J.H. Tan, J.K. Furdyna, Y.H. Zhang, and D.J. Smith, *Journal of Electronic Materials* **38** 1558-1562 (2009).
698. Temperature dependence of magnetization in GaMnAs film with critical strain, H. Lee, S. Chung, S. Lee, X. Liu, and J.K. Furdyna, *Solid State Communications* **149**,1300-1303 (2009).
699. Spin Phenomena of CdZnSe Self-assembled Quantum Dots Investigated by Magneto-photoluminescence, Y. Kim, S. Lee, M. Dobrowolska, and J.K. Furdyna, *Journal of the Korean Physical Society* **55**, 76-79 Sp. Iss. SI (2009).
700. Magnetic Circular Dichroism in Cr-doped CdMnTe, Y. Um, J. Lee, Y. Hwang, S. Shen, J.K. Furdyna, and M. Dobrowolska, *Journal of the Korean Physical Society* **55**, 217-220 Sp. Iss. SI (2009).
701. Magneto-transport Properties of GaMnAs:Si Ferromagnetic Semiconductors, H. Kim, H. Lee, S.J. Chung, S. Lee, Y.-J. Cho, X. Liu, and J.K. Furdyna, *Journal of the Korean Physical Society* **55**, 304-308 Sp. Iss. SI (2009).

702. Quantitative analysis of the angle dependence of planar Hall effect observed in ferromagnetic GaMnAs film, J.Kim, T. Yoo, S. Chung, S. Lee, X. Liu, and J.K. Furdyna, *Journal of Applied Physics* **105**, 07C501 (2009).
703. Magnetotransport properties of GaMnAs based trilayer structures with different thicknesses of InGaAs spacer layer, H. Lee, S. Chung, S. Lee, X. Liu, and J.K. Furdyna, *Journal of Applied Physics* **105**, 07C505 (2009).
704. Evidence for reversible control of magnetization in a ferromagnetic material by means of spin-orbit magnetic field, A. Chernyshov, M. Overby, X. Liu, J.K. Furdyna, Y. Lyanda-Geller, and L.P. Rokhinson, *Nature Physics* **5**, 656 (2009).
705. Ferromagnetic resonance investigation of magnetic anisotropy in Ga_{1-x}Mn_xAs synthesized by ion implantation and pulsed laser melting, Y.Y. Zhou, X. Liu, J.K. Furdyna, M.A. Scarpulla, O.D. Dubon, *Physical Review B* **80**, Art. No. 224403 (2009).
706. Origin of resonance structures in magneto-optical spectra of InSb and In_{1-x}Mn_xSb C. Thurn, V.M. Axt, A. Winter, H. Pascher, H. Krenn, X. Liu, J.K. Furdyna, T. Wojtowicz, *Physical Review B* **80**, Art. No. 195210 (2009).
707. Four discrete Hall resistance states in single-layer Fe film for quaternary memory devices, T. Yoo, S. Khym, S.Y. Yea, S. Chung, S. Lee, X. Liu, J.K. Furdyna, *Applied Physics Letters* **95**, Art. No. 202505 (2009).
708. The effect of carrier density on magnetic anisotropy of the ferromagnetic semiconductor (Ga, Mn)As, S. Chung, H.C. Kim, S. Lee, X. Liu, J.K. Furdyna, *Solid State Communications* **149**, 1739-1742 (2009).
709. Spin depolarization of holes and lineshape of the Hanle effect in semiconductor nanostructures, S.V. Andreev, B.R. Namofov, A.V. Koudinov, Y.G. Kusrayev, J.K. Furdyna, *Physical Review B* **80**, Art. No. 113301 (2009).
710. CdSe/ZnTe Heterojunction Solar Cells Grown on GaSb, S. Wang, D. Ding, R. Scott, J. Chen, M. DiNezza, X. Liu, J.K. Furdyna, Y.H. Zhang, *Proc. 34TH IEEE Photovoltaic Specialists Conference, Vols 1-3*: 112-114 (2009).
711. Ultrafast Photoinduced Ferromagnetic Order in a Magnetic Semiconductor Heterostructure, I. Cotoros, J.G. Wang, X. Liu, J.K. Furdyna, D.S. Chemla, *Proc. 16th International Conference on Ultrafast Phenomena, Springer Series in Chemical Physics, Vol. 92* Ed. by P. Corkum, S. DeSilvestri, K.A. Nelson, and E. Riedle, p.197-199 (2009).
712. Memory Effects in Photo-induced Femtosecond Magnetization Rotation in a Ferromagnetic Semiconductor, I. Cotoros, J.G. Wang, X. Liu, J.K. Furdyna, J. Chovan, I.E. Perakis, D.S. Chemla, *Proc. 16th International Conference on Ultrafast Phenomena, Springer Series in Chemical Physics, Vol. 92*, Ed. by P. Corkum, S. DeSilvestri, K.A. Nelson, and E. Riedle, p.212-214 (2009)

2010

713. Ferromagnetic Resonance Study of $\text{Ga}_{1-x}\text{Mn}_x\text{As}$ Fabricated on (311)GaAs Wafers by Mn Ion Implantation and Pulsed-Laser Melting, Y.Y. Zhou, X. Liu, J.K. Furdyna, M.A. Scarpulla, O.D. Dubon, *Journal of Superconductivity and Novel Magnetism* **23**, 87-90 Sp. Iss. SI (2010).
714. Giant Zeeman splitting in nucleation-controlled doped CdSe: Mn^{2+} quantum nanoribbons, J.H. Yu, X. Liu, K.E. Kweon, J. Joo, J. Park, K.T. Ko, D. Lee, S. Shen, K. Tivakornsasithorn, J.S. Son, J.H. Park, Y.W. Kim, G.S. Hwang, M. Dobrowolska, J.K. Furdyna, T. Hyeon, *Nature Materials* **9**, 47-53 (2010).
715. Investigation of domain pinning fields in ferromagnetic GaMnAs films using angular dependence of the planar Hall effect, J. Kim, S. Lee, S. Lee, X. Liu, J.K. Furdyna, *Solid State Communications* **150**, 27-29 (2010).
716. Vertical gradient of magnetic anisotropy in the ferromagnetic semiconductor (Ga,Mn)As film, H. Son, S. Chung, S.Y. Yea, S. Kim, T. Yoo, S. Lee, X. Liu, J.K. Furdyna, *Applied Physics Letters* **96**, Art. No. 092105 (2010).
717. Ultrafast studies of carrier and magnetization dynamics in GaMnAs, J.P. Zahn, A. Gamouras, S. March, X. Liu, J.K. Furdyna, K.C. Hall, *Journal of Applied Physics* **107**, Art. No. 033908 (2010).
718. Electronic structure of $\text{Ga}_{1-x}\text{Mn}_x\text{As}$ analyzed according to hole-concentration-dependent measurements, M.A. Mayer, P.R. Stone, N. Miller, H.M. Smith, O.D. Dubon, E.E. Haller, K.M. Yu, W. Walukiewicz, X. Liu, J.K. Furdyna, *Physical Review B* **81**, Art. No. 045205 (2010).
719. Mechanical and electronic properties of ferromagnetic $\text{Ga}_{1-x}\text{Mn}_x\text{As}$ using ultrafast coherent acoustic phonons J. Qi, J.A. Yan, H. Park, A. Steigerwald, Y. Xu, S.N. Gilbert, X. Liu, J.K. Furdyna, S.T. Pantelides, N. Tolk, *Physical Review B* **81**, Art. No. 115208 (2010).
720. Carrier transfer from wetting layer to quantum dots studied by cw-resolved and time-resolved photoluminescence in CdSe/ZnSe quantum dot system, T.S. Kim, B.W. Lee, E. Oh, S. Lee, J.K. Furdyna, *Journal of Applied Physics* **107**, Art. No. 063517 (2010).
721. Asymmetry in the planar Hall resistance of Fe films grown on vicinal GaAs substrates, T. Yoo, S. Khym, H. Lee, S. Chung, S. Lee, X. Liu, J.K. Furdyna, *Journal of Applied Physics* **107**, Art. No. 09C505 (2010).
722. Reduction in the planar Hall resistance amplitude in the reversal process of Fe film with biaxial easy axes, H. Lee, S. Chung, T. Yoo, S. Lee, X. Liu, J.K. Furdyna, *Journal of Applied Physics* **107**, Art. No. 09C508 (2010).
723. Magnetization reorientation in $\text{Ga}_x\text{Mn}_{1-x}\text{As}$ films: Planar Hall effect measurements S. Chung, S. Lee, X. Liu, J.K. Furdyna, *Physical Review B* **81**, Art. No. 155209 (2010).

724. Mapping of magnetic anisotropy in strained ferromagnetic semiconductor GaMnAs films, S. Kim, H. Lee, T. Yoo, S. Lee, S. Lee, X. Liu, J.K. Furdyna, *Journal of Applied Physics* **107**, Art. No. 103911 (2010).
725. Magnetic anisotropy of Ga(1-x)MnxAs films with additional nonmagnetic donor doping, H.C. Kim, S. Khym, S. Lee, X. Liu, J.K. Furdyna, *Journal of Applied Physics* **107**, Art. No. 09C303 (2010).
726. Asymmetry in the reorientation process of magnetization for crossing the $[1\bar{1}0]$ and the $[110]$ directions in Ga_{1-x}Mn_xAs epilayers, Y. Kim, S. Chung, S. Lee, X. Liu, J.K. Furdyna, *Journal of Applied Physics* **107**, Art. No. 09C304 (2010).
727. Self-Assembled CdTe Quantum Dots Grown on ZnTe/GaSb, R.E. Pimpinella, X. Liu, J.K. Furdyna, M. Dobrowolska, A.M. Mintairov, J.L. Merz, *Journal of Electronic Materials* **39**, 992-995 (2010).
728. Optically detected magnetic resonance in CdMnSe/ZnSe submonolayer quantum wells, D.O. Tolmachev, R.A. Babunts, N.G. Romanov, P.G. Baranov, B.R. Namozov, Y.G. Kusrayev, S. Lee, M. Dobrowolska, J.K. Furdyna, *Physica Status Solidi B-Basic Solid State Physics* **247**, 1511-1513 (2010).
729. Interpretation of hysteresis loops of GaMnAs in the framework of the Stoner-Wohlfarth model, A. Winter, H. Pascher, H. Krenn, X. Liu, J.K. Furdyna, *Journal of Applied Physics* **108**, Art. No. 043921 (2010).
730. Coherent Magnetization Precession in Ferromagnetic (Ga,Mn)As Induced by Picosecond Acoustic Pulses, A.V. Scherbakov, A.S. Salasyuk, A.V. Akimov, X. Liu, M. Bombeck, C. Bruggemann, D.R. Yakovlev, V.F. Sapega, J.K. Furdyna, M. Bayer, *Physical Review Letters* **105**, Art. No. 117204 (2010).
731. Giant magnetoresistance and long-range antiferromagnetic interlayer exchange coupling in (Ga,Mn)As/GaAs:Be multilayers, S. Chung, S. Lee, J.H. Chung, T. Yoo, H. Lee, B. Kirby, X. Liu, J.K. Furdyna, *Physical Review B* **82**, Art. No. 054420 (2010).
732. Influence of uniaxial anisotropy on the domain pinning fields of ferromagnetic Ga_{1-x}Mn_xAs films, S. Lee, H. Lee, T. Yoo, S. Lee, X. Liu, J.K. Furdyna, *Journal of Applied Physics* **108**, Art. No. 063910 (2010).

2011

733. "Effect of pinning-field distribution on the process of magnetization reversal in Ga(1-x)Mn(x)As films", J. Kim, H. Lee, T. Yoo, S. Lee, X. Liu, and J. K. Furdyna, *PHYSICAL REVIEW B* **84**, Article 184407 (2011).
734. "Time-resolved second harmonic generation study of buried semiconductor heterointerfaces using soliton-induced transparency", Y. D. Glinka, N. H. Tolk, and J. K. Furdyna, *PHYSICAL REVIEW B* **84**, Article 153304 (2011).
735. "Electronic structure of Ga(1-x)Mn(x)As probed by four-wave mixing spectroscopy", M. Yildirim, S. March, R. Mathew, A. Gamouras, X. Liu, M. Dobrowolska, J. K. Furdyna, and K. C. Hall, *PHYSICAL REVIEW B* **84**, Article 121202 (2011).

736. “Magnetic Anisotropy of GaMnAs Film and Its Application in Multi-valued Memory Devices”, S. Lee, T. Yoo, H. Lee, S. Khym, X. Liu, and J. K. Furdyna, JAPANESE JOURNAL OF APPLIED PHYSICS 50, Article 04DM02 (2011).
737. “Structural properties of Bi(2)Te(3) and Bi(2)Se(3) topological insulators grown by molecular beam epitaxy on GaAs(001) substrates”, X. Liu, D. J. Smith, J. Fan, Y.-H. Zhang, H. Cao, Y. P. Chen, J. Leiner, B. J. Kirby, M. Dobrowolska, and J. K. Furdyna, APPLIED PHYSICS LETTERS 99, Article 171903 (2011).
738. “Theory of magnetization precession induced by a picosecond strain pulse in ferromagnetic semiconductor (Ga,Mn)As”, T. L. Linnik, A. V. Scherbakov, D. R. Yakovlev, X. Liu, J. K. Furdyna, and M. Bayer, PHYSICAL REVIEW B 84, Article 214432 (2011).
739. “Scaling relations between anomalous Hall and longitudinal transport coefficients in metallic (Ga,Mn)As films, X. Liu, S. Shen, Z. Ge, W. L. Lim, M. Dobrowolska, J. K. Furdyna, S. Lee, PHYSICAL REVIEW B 83, Article 144421(2011).
740. “Antiferromagnetic exchange coupling between GaMnAs layers separated by a nonmagnetic GaAs:Be spacer”, J. Leiner, K. Tivakornsasithorn, X. Liu, J. K. Furdyna, M. Dobrowolska, B. J. Kirby, H. Lee, T. Yoo, and S. Lee, JOURNAL OF APPLIED PHYSICS 109, Article 07C307 (2011).
741. “II-VI heterostructures obtained by encapsulation of colloidal CdSe nanowires by molecular beam epitaxy deposition of ZnSe”, X. Liu, A. M. Mintairov, J. Herzog, F. Vietmeyer, R. E. Pimpinella, M. Kuno, J. L. Merz, T. H. Kosel, M. Dobrowolska, and J. K. Furdyna, Journal of Vacuum Science and Technology B 29, 03C102 (2011).
742. “Interfacial Spin Filtering and Temperature Variation of Copper/GaMnAs Contact Resistance”, K. F. Eid, B. Paudel, N. Opondo, C. Otieno, G. Riley, X. Liu, and J. K. Furdyna, IEEE TRANSACTIONS ON MAGNETICS 47, 2636- (2011).
743. “Microstructural characterization of thick ZnTe epilayers grown on GaSb, InAs, InP and GaAs (100) substrates”, L. Ouyang, J. Fan, S. Wang, X. Lu, Y.-H. Zhang, X. Liu, J. K. Furdyna, and D. J. Smith, JOURNAL OF CRYSTAL GROWTH 330, 30 (2011).
744. “beta-detected NMR of Li in Ga(1-x)Mn(x)As”, Q. Song, K. H. Chow, Z. Salman, H. Saadaoui, M. D. Hossain, R. F. Kiefl, C. D. P. Levy, M. R. Pearson, T. J. Parolin, M. Smadella, D. Wang, K. M. Yu, X. Liu, J. K. Furdyna, and W. A. MacFarlane, PHYSICAL REVIEW B 84, Article 054414 (2011).
745. “Use of the Asymmetric Planar Hall Resistance of an Fe Film for Possible Multi-Value Memory Device Applications”, T. Yoo, S. Khym, H. Lee, S. Lee, S. Kim, J. Shin, S. Lee, X. Liu, and J. K. Furdyna, JOURNAL OF NANOSCIENCE AND NANOTECHNOLOGY 11, 5990 (2011).
746. “Investigation of weak interlayer exchange coupling in GaMnAs/GaAs superlattices with insulating nonmagnetic spacers”, J. H. Chung, Y. S. Song, T. Yoo, S. J. Chung, S. Lee, B. J. Kirby, X. Liu, and J. K. Furdyna, JOURNAL OF APPLIED PHYSICS 110, Article 013912 (2011).
747. “Growth and material properties of ZnTe on GaAs, InP, InAs and GaSb (001) substrates for electronic and optoelectronic device applications”, J. Fan, L. Ouyang, X.

Liu, D. Ding, J. K. Furdyna, D. J. Smith, and Y.-H. Zhang, JOURNAL OF CRYSTAL GROWTH 323, 127 (2011).

748. “Photoinduced Critical Slowing Down of Femtosecond Hole Spin Relaxation in Ferromagnetic GaMnAs”, T. Q. Li, A. Patz, I. E. Perakis, X. Liu, J. K. Furdyna, and J. G. Wang, 2011 CONFERENCE ON LASERS AND ELECTRO-OPTICS (CLEO), (2011).

749. “Power and temperature dependent magneto-photoluminescence of the asymmetric double layers of quantum dots”, H. Lee, T. Yoo, S. Lee, M. Dobrowolska, and J. K. Furdyna, JOURNAL OF CRYSTAL GROWTH 323, 172 (2011).

750. “Optical measurements of single CdTe self-assembled quantum dots grown on ZnTe/GaSb”, R. E. Pimpinella, A. M. Mintairov, X. Liu, T. H. Kosel, J. L. Merz, J. K. Furdyna, and M. Dobrowolska, JOURNAL OF VACUUM SCIENCE & TECHNOLOGY B 29, 03C119 (2011).

751. “Magnetic anisotropy in (Ga, Mn)As grown on vicinal GaAs: Effects of the orientation of microwave magnetic field”, K. Dziatkowski, X. Liu, J. K. Furdyna, and A. Twardowski, JOURNAL OF APPLIED PHYSICS 109, Article 07C301 (2011).

752. “Asymmetry in the angular dependence of the switching field of GaMnAs film”, J. Shin, S. Kim, S. Lee, T. Yoo, H. Lee, S. Khym, S. Lee, X. Liu, and J. K. Furdyna, JOURNAL OF APPLIED PHYSICS 109, Article 07C308 (2011).

2012

753. “Temperature Behavior of Uniaxial Anisotropy along [100] Direction in GaMnAs Films”, Jaehyuk Won, Jinsik Shin, Sangyeop Lee, Taehee Yoo, Hakjoon Lee, Sanghoon Lee, Xinyu Liu, and Jacek K. Furdyna, APPLIED PHYSICS EXPRESS 6, 013001 (2013)

754. “The fractional a.c. Josephson effect in a semiconductor–superconductor nanowire as a signature of Majorana particles”, Leonid P. Rokhinson, Xinyu Liu, and Jacek K. Furdyna, NATURE PHYSICS 8, 795–799 (2012).

755. “Electrical control of ferromagnetic state”, L.P. Rokhinson, M. Overby, A. Chernyshov, Y. Lyanda-Geller, X.Liu, and J. K. Furdyna, JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS 324, 3379 (2012).

756. “Field-controllable exchange bias in epitaxial Fe films grown on GaAs”, S. Choi, T. Yoo, S. Khym, S. Lee, X. Liu, and J. K. Furdyna, APPLIED PHYSICS LETTERS 101, 132403 (2012).

757. “ZnTe/GaSb distributed Bragg reflectors grown on GaSb for mid-wave infrared optoelectronic applications”, J. Fan, X. Liu, J. K. Furdyna, and Y. H. Zhang, APPLIED PHYSICS LETTERS 101, 121909 (2012).

758. “Magnetotransport properties of ferromagnetic semiconductor GaMnAs-based superlattices”, S. Lee, S. Chung, S. Lee, H. Lee, T. Yoo, X. Liu, and J. K. Furdyna, CURRENT APPLIED PHYSICS 12, S31 (2012).

759. “Multi-Valued Planar Hall Resistance Manipulated by Current Induced Magnetic Field in Fe Films Grown on GaAs(001) Substrates”, S. Khym, T. Yoo, H. Lee, S. Lee, S.

- Lee, X. Liu, J. K. Furdyna, D. U. Lee, and E. K. Kim, *APPLIED PHYSICS EXPRESS* 5, 093004 (2012).
760. “Photoluminescence studies of type-II CdSe/CdTe superlattices”, J. J. Li, L. J. Yin, S. R. Johnson, B. J. Skromme, S. M. Wang, X. Liu, D. Ding, C. Z. Ning, J. K. Furdyna, and Y. H. Zhang, *APPLIED PHYSICS LETTERS* 101, 061915 DOI: 10.1063/1.4745199 (2012).
761. “Characterization of Bi₂Te₃ and Bi₂Se₃ topological insulators grown by MBE on (001) GaAs substrates”, X. Liu, D. J. Smith, H. L. Cao, Y. P. Chen, J. Fan, Y. H. Zhang, R. E. Pimpinella, M. Dobrowolska, and J. K. Furdyna, *JOURNAL OF VACUUM SCIENCE & TECHNOLOGY B* 30, 02B103 (2012).
762. “Magnetic anisotropy of GaAs/Fe/Au core-shell nanowires grown by MBE”, K. Tivakornsasithorn, R. E. Pimpinella, V. Nguyen, X. Liu, M. Dobrowolska, and J. K. Furdyna, *JOURNAL OF VACUUM SCIENCE & TECHNOLOGY B* 30, 02B115 (2012).
763. “Information on ion-solid interactions obtained through magnetization measurements”, M. M. Sant’Anna, T. G. Rappoport, E. H. C. P. Sinnecker, M. P. Pires, G. M. Penello, D. E. R. Souza, S. L. A. Mello, J. B. S. Mendes, J. K. Furdyna, and X. Liu, *NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION B-BEAM INTERACTIONS WITH MATERIALS AND ATOMS* 273, 72 (2012).
764. “beta-detected NMR Search for Magnetic Phase Separation in Epitaxial GaAs:Mn”, Q. Song, K. H. Chow, R. I. Miller, I. Fan, M. D. Hossain, R. F. Kiefl, G. D. Morris, S. R. Kreitzman, C. D. P. Levy, T. J. Parolin, M. R. Pearson, Z. Salman, H. Saadaoui, M. Smadella, D. Wang, K. M. Yu, X. Liu, J. K. Furdyna, and W. A. MacFarlane, *Proc. 12TH INTERNATIONAL CONFERENCE ON MUON SPIN ROTATION, RELAXATION AND RESONANCE (MUSR2011)* Book Series: Physics Procedia (edited by G. M. Luke and J. Sonier), Vol 30, p. 174 (2012).
765. “Interband dephasing and photon echo response in GaMnAs”, M. Yildirim, S. March, R. Mathew, A. Gamouras, X. Liu, M. Dobrowolska, J. K. Furdyna, and K. C. Hall, *APPLIED PHYSICS LETTERS* 101, Article 062403 (2012).
766. “Exchange Coupling in Magnetic Semiconductor Multilayers and Superlattices”, J. K. Furdyna, J. Leiner, X. Liu, M. Dobrowolska, S. Lee, J. H. Chung, and B. J. Kirby, *ACTA PHYSICA POLONICA A* 121, 973-980 (2012).
767. “Controlling the Curie temperature in (Ga,Mn)As through location of the Fermi level within the impurity band”, M. Dobrowolska, K. Tivakornsasithorn, X. Liu, J. K. Furdyna, M. Berciu, K. M. Yu, and W. Walukiewicz, *NATURE MATERIALS* 11, 444-449 (2012).
768. “Excitation of spin waves in ferromagnetic (Ga,Mn)As layers by picosecond strain pulses”, M. Bombeck, A. S. Salasyuk, B. A. Glavin, A. V. Scherbakov, C. Bruggemann, D. R. Yakovlev, V. F. Sapega, X. Liu, J. K. Furdyna, A. V. Akimov, and M. Bayer, *PHYSICAL REVIEW B* 85, 195324 (2012).
769. “Contact resistance as a probe of near-interface ferromagnetism in GaMnAs/Cu bilayers”, K. F. Eid, B. Paudel, G. Riley, D. Dahliah, X. Liu, and J. K. Furdyna, *APPLIED PHYSICS LETTERS* 100, 212403 (2012).

770. "Investigation of superlattices based on ferromagnetic semiconductor GaMnAs by planar Hall effect", S. Chun, S. Lee, H. Lee, T. Yoo, S. Lee, X. Liu, and J. K. Furdyna, *JOURNAL OF APPLIED PHYSICS* 111, 07D310 (2012).
771. "Quaternary memory device fabricated from a single layer Fe film", T. Yoo, S. Khym, H. Lee, S. Lee, S. Lee, X. Liu, J. K. Furdyna, D. U. Lee, and E. K. Kim, *JOURNAL OF APPLIED PHYSICS* 111, 07C704 (2012).
772. "CdSe/CdTe type-II superlattices grown on GaSb (001) substrates by molecular beam epitaxy", J. J. Li, X. Liu, S. Liu, S. M. Wang, D. J. Smith, D. Ding, S. R. Johnson, J. K. Furdyna, and Y. H. Zhang, *APPLIED PHYSICS LETTERS* 100, 121908 (2012).
773. "Crossover critical behavior of Ga(1-x)Mn(x)As", S. U. Yuldashev, K. T. Igamberdiev, Y. H. Kwon, S. Lee, X. Liu, J. K. Furdyna, A. G. Shashkov, and T. W. Kang, *PHYSICAL REVIEW B* 85, 125202 (2012).
774. "Influence of temperature ramp on the materials properties of GaSb grown on ZnTe using molecular beam epitaxy", J. Fan, L. Ouyang, X. Liu, D. Ding, J. K. Furdyna, D. J. Smith, and Y. H. Zhang, *JOURNAL OF VACUUM SCIENCE & TECHNOLOGY B* 30, 02B122 (2012).

2013

775. The critical role of next-nearest-neighbor interlayer interaction in the magnetic behavior of magnetic/non-magnetic multilayers, S. Chung, S. Lee, T. Yoo, H. Lee, J.-H. Chung, M. S. Choi, S. Lee, X. Liu, J. K. Furdyna, J.-H. Han, H.-W. Lee, and K.-Ji. Lee, *New Journal of Physics* 15, 123025 (2013).
776. Cyclotron resonance in ferromagnetic InMnAs and InMnSb, G. A. Khodaparast, Y. H. Matsuda, D. Saha, G. D. Sanders, C. J. Stanton, H. Saito, S. Takeyama, T. R. Merritt, C. Feeser, B. W. Wessels, X. Liu, and J. Furdyna, *Phys. Rev. B* 88, 235204 (2013).
777. Magnetic Properties of Epitaxial Fe/(Ga,Mn)As Hybrids, K. Kalbarczyk, K. Dziatkowski, J. Szczytko, J. Gosk, M. Tokarczyk, G. Kowalski, A. Twardowski, W. Bednarski, A. Ostrowski, S. Waplak, J. Martinek, X. Liu and J.K. Furdyna, *Acta Physica Polonica A* 124, 873 (2013).
778. Coexistence of magnetic domains with in-plane and out-of-plane anisotropy in a single GaMnAs film, S. Lee, H. Lee, T. Yoo, S. Lee, X. Liu, and J.K. Furdyna, *Journal of Crystal Growth* 378, 337 (2013).
779. Planar Hall effect in a single GaMnAs film grown on Si substrate, J. Won, J. Shin, S. Lee, H. Lee, T. Yoo, S. Lee, X. Liu, and J.K. Furdyna, *Journal of Crystal Growth* 378, 361 (2013).
780. Room-temperature ferromagnetism in highly Cr-doped II-Mn-VI magnetic semiconductor Cd_{1-x-y}Mn_xCryTe, Y. H. Hwang, S. Shen, X. Liu, J. K. Furdyna, M. Dobrowolska, and Y. H. Um, *Phys. Rev. B* 88, 075205 (2013).
781. Investigation of the magnetic anisotropy in ferromagnetic GaMnAs films by using the planar hall effect, J. Won, J. Shin, Y. Gwon, H. Byeon, S. Lee, S. Lee, X. Liu, and J. K. Furdyna, *Journal of the Korean Physical Society* 62, 2099 (2013).

782. Large antisymmetric magnetoresistance across chemically etched GaMnAs nanoconstrictions, K. F. Eid, L. E. Ocola, X. Liu, and J. K. Furdyna, *Applied Physics Letters* 102, 242407 (2013).
783. Tunneling magnetoresistance from non-collinear alignment of magnetization in Fe/GaAlAs/GaMnAs magnetic tunnel junctions, T. Yoo, S. Khym, H. Lee, S. Lee, S. Lee, Xinyu Liu, Jacek K. Furdyna, D. U. Lee, and E. K. Kim, *Appl. Phys. Lett.* 102, 212404 (2013).
784. GaSb/ZnTe double-heterostructures grown using molecular beam epitaxy, J. Fan, L. Ouyang, X. Liu, J.K. Furdyna, D.J. Smith, and Y.-H. Zhang, *Journal of Crystal Growth* 371, 122 (2013).
785. Investigation of anomalous magnetoresistance in topological insulator Bi₂Te₃ at the onset of superconductivity in indium contacts, J. A. Haggmann#, X. Liu, M. Dobrowolska, and J. K. Furdyna, *J. Appl. Phys.* 113, 17C724 (2013).
786. MBE growth of II–VI materials on GaSb substrates for photovoltaic applications, S. Wang, D. Ding, X. Liu, X.-B. Zhang, D.J. Smith, J. K. Furdyna, and Y.-H. Zhang, *Journal of Crystal Growth*, Volume 311, 2116 (2013).
787. Quantitative investigation of magnetic domains with in-plane and out-of-plane easy axes in GaMnAs films by Hall effect, S. Lee, H. Lee, T. Yoo, S. Lee, X. Liu, and J. K. Furdyna, *J. Appl. Phys.* 113, 17C706 (2013).
788. Magnetic properties of GaAs/Fe core/shell nanowires, R. E. Pimpinella, D. Zhang, M. R. McCartney, D. J. Smith, K. L. Krycka, B. J. Kirby, B. J. O'Dowd#, L. Sonderhouse, J. Leiner#, X. Liu, M. Dobrowolska, and J. K. Furdyna, *J. Appl. Phys.* 113, 17B520 (2013).
789. MBE growth of II–VI materials on GaSb substrates for photovoltaic applications, S. Wang, D. Ding, X. Liu, X.-B. Zhang, D.J. Smith, J.K. Furdyna, and Y.-H. Zhang, *Journal of Crystal Growth* 311, 2116 (2013).
830. Rapid diffusion of electrons in GaMnAs, C. P. Weber, Eric A. Kittlaus, Kassandra B. Mattia, Christopher J. Waight, J. Haggmann#, X. Liu, M. Dobrowolska, and J. K. Furdyna, *Appl. Phys. Lett.* 102, 182402 (2013).
791. Low field magnetization reversal behavior in GaMnAs films, Y. Gwon, H. Byeon, J. Won, H. Lee, S. Lee, X. Liu, and J. K. Furdyna, *Journal of the Korean Physical Society* 62, 1473 (2013).
792. Molecular beam epitaxial growth of high-reflectivity and broad-bandwidth ZnTe/GaSb distributed Bragg reflectors, J. Fan, X. Liu, L. Ouyang, R. E. Pimpinella#, M. Dobrowolska, J. K. Furdyna, D. J. Smith, and Y.-H. Zhang, *Journal of Vacuum Science and Technology B* 31, 03C109 (2013).
793. Exchange bias and asymmetric magnetization reversal in ultrathin Fe films grown on GaAs (001) substrates, K. Tivakornsasithorn#, A. M. Alsmadi, X. Liu, J. C. Leiner#, Y. Choi, D. J. Keavney, K. F. Eid, M. Dobrowolska, and J. K. Furdyna, *J. Appl. Phys.* 113, 133908 (2013).

794. Effects of pressure on photo-induced formation of Se and Te clusters in II–VI compounds, G. P. Lindberg, R. E. Tallman, R. Lauck, M. Cardona, X. Liu, J. K. Furdyna, and B. A. Weinstein, *physica status solidi (b)* **250**, 711 (2013).
795. Magnetization precession induced by quasitransverse picosecond strain pulses in (311) ferromagnetic (Ga,Mn)As, M. Bombeck, J. V. Jager, A. V. Scherbakov, T. Linnik,³ D. R. Yakovlev, X. Liu, J. K. Furdyna, A. V. Akimov, and M. Bayer, *Physical Review B* **87**, 060302(R) (2013).
796. Atomic-scale characterization of (mostly zincblende) compound semiconductor heterostructures, D. J. Smith, T. Aoki, J. K. Furdyna, X. Liu, M. R. McCartney, and Y.-H. Zhang, *Journal of Physics Conference Series Volume: 471*, UNSP 012005 (2013).
797. Measurement of spin-flip scattering and photon echo response in GaMnAs, K. C. Hall, D. Webber, M. Yildirim, Murat, X. Liu, and J. K. Furdyna, *SPINTRONICS VI Book Series*, ed. by H. J. Drouhin, J. E. Wegrowe, and M. Razeghi, Article No. 88132V (2013).
798. Temperature Behavior of Uniaxial Anisotropy along [100] Direction in GaMnAs Films, J. Won, J. Shin, S. Lee, T. Yoo, Hakjoon Lee, S. Lee, X. Liu, and J. K. Furdyna, *Appl. Phys. Express* **6**, 013001 (2013).
799. MBE Growth of Thin Hexagonal Films Bi₂Te₃, Bi₂Se₃, and Their Alloys on Cubic GaAs (001) Substrates, X. Liu, Y.P. Chen, D.J. Smith, Y.H. Zhang, C. Liu, M.Z. Hasan, M. Dobrowolska, J.K. Furdyna, J. Fan, H. Cao, T.L. Wu, and R.E. Pimpinella[#], in *Bismuth-Containing Compounds*, ed. By H. Li and Z.M. Wang, Springer New York. p. 263 (2013).

2014

800. Effect of thermal annealing on the magnetic anisotropy of GaMnAs ferromagnetic semiconductor, Yujin Jeong, Hakjoon Lee, Sangyeop Lee, Taehee Yoo, Sanghoon Lee, X. Liu, J.K. Furdyna, *Current Applied Physics* **14**, 1775–1778 (2014).
801. Buffer layer dependence of magnetic anisotropy in Fe films grown GaAs substrate, Yujin Jeong, Hakjoon Lee, Sangyeop Lee, Taehee Yoo, Sanghoon Lee, X. Liu, J.K. Furdyna, *Solid State Communications* **200**, 1–4, (2014).
802. Temperature dependent dielectric functions of molecular beam epitaxy-grown Ga_{1-x}Mn_xAs thin films, F.C. Peiris, T.R. Scully, X. Liu, J.K. Furdyna, *Solid State Communications* **199**, 22–25 (2014).
803. Observation of the exciton and Urbach band tail in low-temperature-grown GaAs using four-wave mixing spectroscopy, D. Webber, M. Yildirim, L. Hacquebard, S. March, R. Mathew, A. Gamouras, X. Liu, M. Dobrowolska, J. K. Furdyna, and K. C. Hall, *Appl. Phys. Lett.* **105**, 182109 (2014).
804. Effect of catalyst diameter on vapour-liquid-solid growth of GaAs nanowires, B. J. O'Dowd[#], T. Wojtowicz, S. Rouvimov, X. Liu, R. Pimpinella[#], V. Kolkovsky, T. Wojciechowski, M. Zgierski, M. Dobrowolska, I. V. Shvets and J. Furdyna, *J. Appl. Phys.* **116**, 063509 (2014).

805. Effect of light illumination on the [100] uniaxial magnetic anisotropy of GaMnAs film, Hakjoon Lee, Seonghoon Choi, Sangyeop Lee, Taehee Yoo, Sanghoon Lee, X. Liu, and J.K. Furdyna, *Solid State Communications* **192**, 27–30 (2014).
806. Magnetic anisotropy in ultrathin Fe films on GaAs, ZnSe, and Ge (001) substrates, K. Tivakornsasithorn, X. Liu, X. Li, M. Dobrowolska, and J. K. Furdyna, *J. Appl. Phys.* **116**, 043915 (2014).
807. Ultrasmall α -Fe₂O₃ Superparamagnetic Nanoparticles with High Magnetization Prepared by Template-Assisted Combustion Process, Khachatur V. Manukyan, Yong-Siou Chen, Sergei Rouvimov, Peng Li, Xiang Li, Sining Dong, Xinyu Liu, Jacek K. Furdyna, Alexei Orlov, Gary H. Bernstein, Wolfgang Porod, Sergey Roslyakov, and Alexander S. Mukasyan, *J. Phys. Chem. C* **118**, 16264-16271 (2014).
808. Interface chemistry of H₂O on GaAs nanowires probed by near ambient pressure X-ray photoelectron spectroscopy, Xueqiang Zhang, Edward Lamere, Xinyu Liu, Jacek K. Furdyna, and Sylwia Ptasinska, *Chemical Physics Letters* **605**, 51-55 (2014).
10. Interfacial exchange coupling in Fe/(Ga,Mn)As bilayers, A. M. Alsmadi, Y. Choi, D. J. Keavney, K. F. Eid, B. J. Kirby, X. Liu, J. Leiner, K. Tivakornsasithorn, M. Dobrowolska, and J. K. Furdyna, *Phys. Rev. B* **89**, 224409 (2014).
809. Magnetization reversal behavior of GaMnAs film grown on Si substrate investigated by planar Hall measurements, Sangyeop Lee, Jaehyuk Won, Jinsik Shin, Hakjoon Lee, Taehee Yoo, Sanghoon Lee, Xinyu Liu, and Jacek K. Furdyna, *Appl. Phys. Express* **7**, 063007 (2014).
810. Measurement of magnetization of Ga_{1-x}Mn_xAs by ferromagnetic resonance, J.A. Hagmann, K. Traudt, Y.Y. Zhou, X. Liu, M. Dobrowolska, and J.K. Furdyna, *Journal of Magnetism and Magnetic Materials* **360**, 137–142 (2014).
811. Magnetotransport properties of Fe/GaAlAs/GaMnAs hybrid magnetic trilayer structures, Taehee Yoo, Sanghoon Lee, Xinyu Liu, Jacek K. Furdyna, Dong Uk Lee, and Eun Kyu Kim, *J. Appl. Phys.* **115**, 17C715 (2014.)
812. Morphology dependence of interfacial oxidation states of gallium arsenide under near ambient conditions, Xueqiang Zhang[#], Edward Lamere[#], Xinyu Liu, Jacek K. Furdyna, and Sylwia Ptasinska, *Appl. Phys. Lett.* **104**, 181602 (2014).
813. Fermi-level stabilization in the topological insulators Bi₂Se₃ and Bi₂Te₃: Origin of the surface electron gas, Joonki Suh, Deyi Fu, Xinyu Liu, Jacek K. Furdyna, Kin Man Yu, Wladyslaw Walukiewicz, and Junqiao Wu, *Phys. Rev. B* **89**, 115307 (2014).
814. Effect of annealing on the magnetic anisotropy of GaMnAs film with low Mn concentration, Hyehyeon Byeona, Sangyeop Lee, Taehee Yoo, Sanghoon Lee, X. Liu, and J.K. Furdyna, *Current Applied Physics* **14**, Suppl. 1, S34–S38 (2014).
815. Magnetic depth profile in GaMnAs layers with vertically graded Mn concentrations, J. Leiner[#], B.J. Kirby, M.R. Fitzsimmons, K. Tivakornsasithorn[#], X. Liu, J.K. Furdyna, M. Dobrowolska, *Journal of Magnetism and Magnetic Materials* **350**, 135–140 (2014).

Books edited:

1. Diluted Magnetic (Semimagnetic) Semiconductors, edited by R.L. Aggarwal, J.K. Furdyna, and S. von Molnar (Vol. 89, Materials Research Society Symposia Series, Pittsburgh, 1987).
2. Diluted Magnetic Semiconductors, edited by J.K. Furdyna and J. Kossut (Vol. 25, Semiconductors and Semimetals, Academic Press, Boston, 1988).

Selected Invited Talks 1981-2001

1. "Spin-Spin Exchange Interactions in Semimagnetic Semiconductors," Meeting of the American Physical Society, March 16-20, 1981, Phoenix, Arizona.
2. "Far-Infrared and Microwave Magnetoplasma Effects in Narrow-Gap Semiconductors," 11th Conf. on the Physics of Semiconducting Compounds, Jaszowiec, Poland, April 17-May 2, 1981.
3. "Electrical, Optical, and Magnetic Properties of $\text{Hg}_{1-x}\text{Mn}_x\text{Te}$," U.S. Workshop on the Physics and Chemistry of HgCdTe, Minneapolis, October 28-30, 1981.
4. "Diluted Magnetic Semiconductors: an Interface of Semiconductor Physics and Magnetism," 3rd Joint Intermag/Magnetism and Magnetic Materials Conf., Montreal, July 20-23, 1982.
5. "Neutron Scattering in Diluted Magnetic Semiconductors," (with G. Dolling, T.M. Holden, V. F. Sears, and W. Girit), 3rd Joint Intermag/Magnetism and Magnetic Materials Conf., Montreal, July 20-23, 1982 (presented by G. Dolling).
6. "HgMnTe: A New Candidate for Infrared Detector," Technical Symposium of the Soc. of Photo-Optical Instrumentation Engineers (SPIE), Arlington, Virginia, April 15, 1983.
7. "Shallow Centers in Diluted Magnetic Semiconductors," First Int. Conf. on Spectroscopy of Shallow Centers in Semiconductors, Berkeley, CA, August 2-3, 1984.
8. "Diluted Magnetic Semiconductor Superlattices and Heterostructures," (with S. Datta and R. L. Gunshor), First Int. Conf. on Superlattices, Heterostructures and Microdevices, Champaign, IL, August 1984 (presented by J.K. Furdyna).
9. "Diluted Magnetic Semiconductors: Issues and Trends," J.K. Furdyna, M.I.T. Workshop on Semimagnetic Semiconductors, Cambridge, MA, October 1984.
10. "Diluted Magnetic Semiconductor Superlattices," (with R.L. Gunshor, *et al.*), 2nd Int. Conf. on II-VI Compounds, Aussois, France, March 4-8, 1985 (presented by R. L. Gunshor).

11. "Diluted Magnetic Semiconductor Superlattices and Quantum Wells," a set of lectures presented at the Regional School on Superlattices, University of Sherbrooke, Sherbrooke, Quebec, June 11 and 12, 1985.
12. "New Developments in Semimagnetic Semiconductors," International Conference on Magnetism (ICM'85), San Francisco, August 1985.
13. "Diluted Magnetic Semiconductors: Issues and Opportunities," U.S. Workshop on the Physics and Chemistry of Mercury Cadmium Telluride, San Diego, October 1985.
14. "Diluted Magnetic Semiconductors and Their Applications," J.K. Furdyna, ARO Workshop on Infrared Materials, February 11-12, 1986, Raleigh, NC.
15. "Optical Device Applications of Diluted Magnetic Semiconductors," J.K. Furdyna, Int. Conf. of the Society for Optical Engineering (SPIE), April 7-18, 1986, Innsbruck, Austria.
16. "Device Applications of Diluted Magnetic Semiconductors," J.K. Furdyna, ONR Workshop on Research Opportunities in Magnetism for Naval Applications, June 2-4, 1986, West Lafayette, IN.
17. "Quantum Wells and Superlattices of Diluted Magnetic Semiconductors," J.K. Furdyna, J. Kossut, and A. K. Ramdas, NATO Advanced Research Workshop on Optical Properties of Narrow Gap Low Dimensional Structures, St. Andrews (U.K.), July 29-August 1, 1986.
18. "Diluted Magnetic Ternary and Multinary Compounds," J.K. Furdyna, 7th Int. Conf. on Ternary and Multinary Compounds, Sept. 10-12, 1986, Snowmass, Colorado.
19. "Magnetic Properties of Diluted Magnetic Semiconductors," J.K. Furdyna and N. Samarth, 31st Annual Conf. on Magnetism and Magnetic Materials, November 17-20, 1986, Baltimore, MD.
20. "DMS: Some Speculations for the Future," J.K. Furdyna, Diluted Magnetic (Semimagnetic) Semiconductors of the MRS, Dec. 1-3, 1986, Boston.
21. "Optical Electronic and Magnetic Properties of Diluted Magnetic Semiconductors," J.K. Furdyna, Meeting of the Illinois Chapter of the American Vacuum Society, University of Illinois, Urbana-Champaign, April 1987.
22. "Challenges and Opportunities in Diluted Magnetic Semiconductor Superlattices and Heterostructures," J.K. Furdyna, International Workshop on Superlattice Structures and Devices, University of Minnesota, MN, May 18-20, 1987.

23. "The Effect of Spin-Spin Exchange Interaction on Electrical and Optical Properties of Diluted Magnetic Semiconductors," J.K. Furdyna, Midwest Solid State Conference, University of Notre Dame, October, 19-20, 1987.
24. "Iron-Based Narrow-Gap and Zero-Gap Semiconductors," J.K. Furdyna, St. Louis Meeting of the American Physical Society, St. Louis, MO, March 20-24, 1989.
25. "Novel Magnetic and Opto-Electronic Phenomena in Diluted Magnetic Semiconductor Multilayers," J.K. Furdyna and N. Samarth, Spring Meeting of the Materials Research Society, San Diego, CA, April 24-29, 1989.
26. "Diluted Magnetic Semiconductor Quantum Wells and Superlattices," J.K. Furdyna, Symposium on Thin Magnetic Layers and Superlattices, AT&T Bell Labs, Murray Hill, NJ, June 14, 1989.
27. "New Developments in II-VI-Based Diluted Magnetic Semiconductors," N. Samarth and J.K. Furdyna, Meeting of the Materials Research Society, Boston, MA, December 1, 1989.
28. "Inelastic Neutron Scattering Studies of II-VI Diluted Magnetic Semiconductors," T.M. Giebultowicz, J.J. Rhyne, J.K. Furdyna, and P. Klosowski, 34th Annual Conference on Magnetism and Magnetic Materials, Boston, MA November 29, 1989.
29. "Electronic and Magnetic Properties of Diluted Magnetic Semiconductor Thin Films and Multilayers," J.K. Furdyna, Solid State Physics Seminar, Purdue University, W. Lafayette, IN, April 21, 1989.
30. "Iron-Based Narrow Gap and Zero-Gap Semiconductors," J.K. Furdyna, Solid State Seminar, San Diego State University, April 27, 1989.
31. "Diluted Magnetic Semiconductor Thin Films and Multilayers," J.K. Furdyna, Solid State Physics Seminar, University of Nebraska, Lincoln, NE, June 27, 1989.
32. "Diluted Magnetic Semiconductor Thin Films and Multilayers," J.K. Furdyna, Solid State Physics Seminar, Solar Energy Research Institute, Golden, CO, June 30, 1989.
33. "Semimagnetic Thin Films and Superlattices," J.K. Furdyna, Solid State Physics Seminar, Institute of Physics of the Polish Academy of Sciences, Warsaw, Poland, July 20, 1989.
34. "Diluted Magnetic Semiconductors and their Layered Structures," J.K. Furdyna, Condensed Matter and Surface Sciences Seminar, Ohio University, Athens, OH, October 19, 1989.

35. "Diluted Magnetic Semiconductors and Their Device Applications," J.K. Furdyna, Physics Colloquium, National Research Council of Canada, Ottawa, Canada, November 3, 1989.
36. "Magnetic Ordering in Diluted Magnetic Semiconductors," Colloquium, Naval Research Laboratory, presented by J.K. Furdyna in December 1990.
37. "Novel Optical and Magnetic Phenomena in Diluted Magnetic Semiconductor Superlattices and Quantum Wells," Colloquium, Department of Electrical and Computer Engineering, University of Missouri, Columbia, Missouri, presented by N. Samarth in June 1990.
38. "Recent Developments in II-VI and Magnetic Semiconductor Heterostructures," IBM T. J. Watson Research Center, Yorktown Heights, New York, presented by N. Samarth in October 1990.
39. "Strain, Dimensionality and Dilution Effects in Epitaxial FCC Antiferromagnets," Solid State Seminar, Department of Physics, University of Notre Dame, Indiana, presented by N. Samarth in November 1990.
40. "Quasi-2D Confinement of Excitons and Magnetic Polarons in Wide-Gap Semiconductor Quantum Wells," Colloquium, Department of Physics, University of Notre Dame, Indiana, presented by N. Samarth in March 1991.
41. "Exciton Confinement and Stimulated Emission in Wide-gap II-VI Semiconductor Quantum Well Structures," Colloquium, Center for Electronic and Electro-optic Materials, State University of New York, Buffalo, New York, presented by N. Samarth in April 1991.
42. "Diluted Magnetic Semiconductor," Meeting of the Solid State Sciences Committee of the National Academy of Sciences, presented by J.K. Furdyna, Washington, DC, October 15, 1991.
43. "Magnetic Semiconductor Films: Properties and Applications," Workshop on Thin Film Technology for the 21st Century, Northwestern University, August 2, 1991, presented by J.K. Furdyna.
44. "Magnetic Semiconductors," Lecture series at International School on Magnetism, Bialowierza, Poland, June 17 and 18, 1991, presented by J.K. Furdyna.
45. "The Semiconductor Blue Laser," Solid State Seminar, Institute of Physics of the Polish Academy of Sciences, Warsaw, Poland, June 11, 1991, presented by J.K. Furdyna.
46. "Stimulated Emission and Exciton Confinement at Blue-green Wavelengths in ZnSe/ZnCdSe Quantum Well Structures," IBM T. J. Watson Research Center, Yorktown Heights, New York, August 1991. Presented by N. Samarth.

47. "New II-VI and Diluted Magnetic Semiconductor Heterostructures: Opportunities for Novel Physics and Applications," Ribber Users Meeting, Austin, Texas, September 1991. Presented by N. Samarth.
48. "Stimulated Emission and Exciton Confinement at Blue-green Wavelengths in ZnSe/ZnCdSe Quantum Well Structures," Amoco Research Corporation, Naperville, Illinois, September 1991. Presented by J.K. Furdyna, H. Luo, and N. Samarth.
49. "Spin Organization in Magnetic Semiconductor Quantum Structures," Bellcore, Red Bank, New Jersey, September 1991. Presented by N. Samarth.
50. "Spin Organization in Magnetic Semiconductor Quantum Structures," General Colloquium, Center for Electronic and Electro-optic Materials, SUNY, Buffalo, New York, November 1991. Presented by N. Samarth.
51. "Spin-dependent Localization in Magnetic Quantum Wells," Condensed Matter Seminar, Pennsylvania State University, University Park, Pennsylvania, February 1992. Presented by N. Samarth.
52. "Static and Dynamic Spin Organization in Magnetic Semiconductor Quantum Structures," XXI International School of Physics of Semiconductor Compounds, Jaszowiec, Poland, May 1992. Presented by N. Samarth.
53. "Magnetic Semiconductor Heterostructures: From 3D to 2D Magnetism," Introductory School on Physics of 2D Systems, Jaszowiec, Poland, May 1992. Presented by N. Samarth.
54. "The Blue Semiconductor Laser," Am. Phys. Soc. Meeting, May 20-22, 1992, Chicago, IL. Presented by J.K. Furdyna.
55. "Strain-engineered Magnetic Phenomena in MnSe/ZnTe Superlattices," 1993 APS March meeting, Seattle, WA. Presented by T.M. Giebultowicz.
56. "II-VI-based DMS heterostructures," French-American Workshop on II-VI and III-V Semiconductor Compounds, Chicago, IL, Oct. 9, 1992. Presented by M. Dobrowolska.
57. "II-VI-based semiconductor blue laser," Physics Colloquium, Purdue University, Feb. 4, 1993. Presented by J.K. Furdyna.
58. "Growth and optical properties of II-VI semiconductor nanostructures," Physics Colloquium, Brooklyn College CUNY, April, 1993. Presented by H. Luo.

Invited talks (for 2002)

1. “Ferromagnetic III-Mn-V Semiconductors: Challenges and Opportunities,” J.K. Furdyna, Symposium on the Application of Neutron Scattering Methods to Nanoscience, Argonne National Laboratory, Argonne, IL, March 28-30, 2002.
2. “Ferromagnetic III-Mn-V Semiconductors: Manipulation of Magnetic Properties by Annealing, Extrinsic Doping, and Multilayer Design,” J.K. Furdyna, International School on the Physics and Applications of Semiconductor Compounds, Jaszowiec, Poland, June 10-14, 2002.
3. “Coherent superposition of electric- and magnetic-dipole-spin-slip transitions in zinc-blende semiconductors,” J.K. Furdyna and M. Dobrowolska, Symposium in Honor of Prof. Emmanuel Rashba, Cambridge, MA, June 20-22, 2002.
4. “Ferromagnetic III-Mn-V Semiconductors: Manipulation of Magnetic Properties by Annealing, Extrinsic Doping, and Multilayer Design,” J.K. Furdyna, 11th Seoul International Symposium on Semiconductors and their Applications, Jeju, Korea, August 20-23, 2002.
5. “Ferromagnetic III-Mn-V Semiconductors: New Issues and Opportunities,” Spintronics Workshop, Michigan State University, East Lansing, MI, October 5, 2002.
6. “Magnetic Proximity Effects Occurring at (II-Mn-V)/(III-Mn-V) Interfaces,” J.K. Furdyna, 3rd International Workshop on Advances in Growth and Characterization of II-VI Heterostructures, Wuerzburg, Germany, October 9-11, 2002.
7. Honorary Doctorate Lecture, Warsaw University, Warsaw, Poland, October 14, 2002.
8. “II-VI-based Self-Organized Quantum Structures: Formation Dynamics and Electronic Properties,” J.K. Furdyna and M. Dobrowolska, Annual Meeting of the European Materials Research Society, Zakopane, Poland, October 14-18, 2002.

Invited talks (for 2003)

1. “Mechanisms limiting the Curie temperature in GaMnAs,” Invited Talk, T. Wojtowicz, W.L. Lim, X. Liu, M. Dobrowolska, J.K. Furdyna, K.M. Yu, and W. Walukiewicz, APS March Meeting, Austin, Texas, March 3-7, 2003.

2. "Growth and properties of ferromagnetic $\text{In}_{1-x}\text{Mn}_x\text{Sb}$ alloys," Invited Talk, T. Wojtowicz, W.L. Lim, X. Lim, G. Cywinski, M. Kutrowski, L.V. Titova, K. Yee, M. Dobrowolska, J.K. Furdyna, K.M. Yu, W. Walukiewicz, G.B. Kim, M. Cheon, X. Chen, S.M. Wang, H. Luo, I. Furgaftman, and J.R. Meyer, 11th International Conference on Narrow Gap Semiconductors, NGS11, Buffalo, New York, June 16-20, 2003.
3. "Mechanisms limiting the Curie temperature in GaMnAs ," Invited Talk, T. Wojtowicz, W.L. Lim, X. Liu, M. Dobrowolska, J.K. Furdyna, K.M. Yu, W. Walukiewicz, I. Vurgaftman and J.R. Meyer, International Conference and School on Semiconductor Spintronics and Quantum Information Technology, Spintech II, Brugge, Belgium, August 4-8, 2003.

Invited talks (for 2004)

1. "Electronic Effects on the Growth and Composition of Ferromagnetic $\text{III}_{1-x}\text{Mn}_x\text{V}$ semiconductors," International Conference on Low-Dimensional Semiconductor Structures, Mautendorf, Austria, February 15-21, 2004.
2. "Magnetic Anisotropy in Ferromagnetic III-Mn-V Semiconductors: Issues and observations," Invited Talk at the Annual Meeting of the German Physical Society, Regensburg, Germany, March 7-12, 2004.
3. "Electronic Effects on the Growth and Composition of Ferromagnetic $\text{III}_{1-x}\text{Mn}_x\text{V}$ semiconductors," University of Michigan, Materials Engineering Seminar, April 2, 2004.
4. "Controlling ferromagnetic properties of ultra-thin $\text{Ga}(1-x)\text{Mn}(x)\text{As}$ films by remote p-type doping," Invited Talk at Argonne Workshop on Nanomagnetism, Argonne, IL, May 4, 2004.
5. "Fermi Level Effects on Mn Incorporation in Modulation-Doped Ferromagnetic $\text{III}_{1-x}\text{Mn}_x\text{V}$ Heterostructures," Invited Talk at the International Conference on Nanospintronics Design and Realization (ICNDR2004), Kyoto, Japan, May 24-28, 2004.
6. Invited Overview on Ferromagnetic Semiconductors at the Gordon Conference on Defects in Semiconductors, New London, New Hampshire, July 18-23, 2004.
7. "Magneto-optical study of nonmagnetic quantum dots coupled to a magnetic semiconductor quantum well," Invited Talk at the Annual Meeting of the European Materials Research Society (E-MRS), Warsaw, Poland, September 5-11, 2004.
8. "Coupled Magnetic Quantum Dots," Colloquium at the Institute of Physics, Polish Academy of Sciences, Warsaw, Poland, September 16, 2004.

9. "Spintronics and Spin-Photonics in InAs/GaSb-Based Heterostructures," Spins in Semiconductor Program Review of the Defense Advanced Research Programs Agency, San Francisco, CA, October 24-29, 2004.

Invited talks (for 2005)

1. "Ferromagnetic Resonance Studies of Dilute Magnetic Semiconductors," Invited Talk at March Meeting of the American Physical Society, Los Angeles, CA, 03/21/05-03/25/05.
2. "Coupled II-VI semiconductor quantum dots: manipulation of spin polarization by inter-dot exchange interaction," Invited Talk, with M. Dobrowolska and S. Lee at 4th International Workshop on Advances in II-VI Semiconductors, Wuerzburg, Germany, 07/18/05-07/20/05.
3. "Inter-Dot spin Exchange Interaction in Coupled II-VI Semiconductor Quantum Dots," Invited Talk with S. Lee and M. Dobrowolska at 12th International Conference on II-VI Compounds, Warsaw, Poland, 09/12/05-09/16/05.
4. "Electron paramagnetic resonance study of spin-spin interactions in strongly-coupled II(1-x)Mn(x)VI magnetic semiconductors," contributed talk at the Conference on Magnetism and Magnetic Materials, San Jose, CA, 10/03/05-11/03/05.
5. "Effects Limiting the Formation of Ferromagnetic III_{1-x}Mn_xV Alloys by Epitaxial Growth," Invited Talk at Annual Meeting of the American Vacuum Society, 10/30/05-11/03/05.
6. "Controlling the Easy Axis of Magnetization in Ferromagnetic III_{1-x}Mn_xV Semiconductors," Invited Talk at International Symposium on Structure and Dynamics on the Nanometer Scale, Duisburg-Essen, Germany, 11/10/05-11/13/05.

Invited talks (for 2006)

1. "In search of ferromagnetic semiconductors with a high Curie temperature," Invited Talk at the French - U.S. Workshop on Spin Electronics, June 12, 2006, St. Pierre de Chartreuse, France.
2. "The effect of electronic parameters on fabrication of ferromagnetic semiconductors," Invited Talk at "Spins in Solids" Conference, Charlottesville, VA, June 19, 2006.
3. "Ferromagnetic semiconductors for spintronic applications," Invited Talk at The International Workshop on Nanostructured Materials, Jeju, Korea, August 23, 2006.

4. “Optically-generated multi-spin entanglement in semiconductor quantum wells,” Invited Talk at the 6th International conference on Light-Matter Coupling in Nanostructures, Magdeburg, Germany, September 28, 2006.
5. “Ferromagnetic semiconductor nanostructures: candidates for new type of non-volatile magnetic memories,” Invited talk at International Conference on Nanoelectronics, Gyeongju, Korea, October 23, 2006.

Invited talks (for 2007)

1. “Making Semiconductors Ferromagnetic,” Spring Meeting of the Materials Research Society, San Francisco, 04/11/07.
2. “Limits in Achieving Room Temperature Ferromagnetism in Semiconductors,” presentation at Meeting of the Panel on U.S.-Polish Committee on Scientific Collaboration, Warsaw Polytechnic, Warsaw, Poland.
3. “Ferromagnetic Semiconductor: an Interface of Magnetism and Semiconductor Physics,” International Workshop on Spintronics, Tbilisi, Georgia, 10/22/07.

Invited talks (for 2008)

1. “Magnetic Excitations in Ferromagnetic Semiconductors,” Invited talk at International Symposium, “Magnetic Excitations in Semiconductors – Bridges to the Next Decade,” University of Buffalo – The State University of New York, Buffalo, NY, 03/06-09/08.
2. “Magnons in the Ferromagnetic Semiconductor GaMnAs,” Invited talk at Moscow International Symposium on Magnetism (MISM), Moscow, Russia, 06/20-25/08.

Invited talks (for 2009)

1. “Spin Wave Excitations in Ferromagnetic Semiconductors,” SpinTech International Conference, Krakow, Poland, July 2009.
2. “From II-VI-based Diluted Magnetic Semiconductors to spintronics,” Plenary Talk at International Conference on II-VI Semiconductor Compounds, St. Petersburg, Russia, August 2009.

Recent Invited talks

1. “Exchange coupling in magnetic semiconductor multilayers and superlattices”, Plenary Lecture presented by J. K. Furdyna at the European Conference on the Physics of Magnetism 2011(PM’11), Poznań, Poland, June 27-July 1, 2011.

2. “Optical manipulation of spin states in semiconductor quantum dots”, Invited Lecture presented by J. K. Furdyna at the International Symposium “Spins and Photonic Beams at Interface” (SPBI ’2011), Minsk, Belarus, 09/25/2011-09/27/2011
3. “MBE growth of 6.1Å II-VI/III-V semiconductor hybrid structures”, Invited talk presented by J. K. Furdyna at the International Workshop on 6.1Å II-VI/III-V Materials and their Integration (Tempe, AZ, November 2011).
4. “Hybrid metal/semiconductor epitaxial structures”, Plenary Lecture presented on October 17, 2013 at the Institute of Physics, Polish Academy of Sciences, Warsaw, Poland, on symposium celebrating the 60th anniversary of the Institute.

Colloquia and Seminars (since 1981)

1. “Spin-Spin Exchange Interaction in Diluted Magnetic Semiconductors,” Physics Colloquium, Bell Telephone Laboratories, Murray Hill, New Jersey, April 14, 1981.
2. “Magnetoplasma Effects in Narrow-Gap Semiconductors,” Physics Colloquium, Ecole Normale Supérieure, Paris, France, May 18, 1981.
3. “Electrical and Optical Properties of Diluted Magnetic Narrow-Gap Semiconductors,” Solid State Physics Seminar, Martin Marietta Laboratories, Baltimore, Maryland, June 10, 1981.
4. “Electrical and Optical Properties of Diluted Magnetic Semiconductors,” Solid State Physics Seminar, University of Maryland, July 23, 1981.
5. “Far-Infrared Magnetoplasma Effects in Narrow Gap Semiconductors,” Solid State Physics Seminar, University of Maryland, July 30, 1981.
7. “Diluted Magnetic Semiconductors,” Physics Seminar, McMaster University, Hamilton, Ontario, November 4, 1981.
8. “Diluted Magnetic Semiconductors,” Physics Seminar, University of Sherbrooke, Sherbrooke, Quebec, November 26, 1981.
9. “Electrical and Optical Properties of Diluted Magnetic Semiconductors,” University of Montreal, Montreal, December 8, 1981.
10. “Electrical, Optical, and Magnetic Properties of Diluted Magnetic Semiconductors,” Physics Seminar, National Research Council of Canada, Ottawa, December 15, 1981.
11. “Electrical, Optical, and Magnetic Properties of Diluted Magnetic Semiconductors,” National Magnet Laboratory Colloquium Series, M.I.T., Cambridge, MA, March 29, 1982.

12. "Electrical, Optical, and Magnetic Properties of Diluted Magnetic Semiconductors," Physics Colloquium, Worcester Polytechnic Institute, Worcester, MA, March 31, 1982.
13. "Donors and Acceptors in Diluted Magnetic Semiconductors," Instituto Venezolano de Investigaciones Cientificas, Caracas, Venezuela, June 16, 1982.
14. "Magnetic Semiconductors," DARPA Materials Research Council Workshop, La Jolla, July 13-17, 1982.
15. "EPR and Microwave Magneto-Optics in Diluted Magnetic Semiconductors," Solid State Physics Seminar, Purdue University, September 29, 1982.
16. "How Magnetic Fields can Expand a Wave Function," Solid State Theory Journal Club Workshop, Physics Department, Purdue University, October 4, 1982.
17. "Diluted Magnetic Semiconductors," Physics Colloquium, Northwestern University, November 17, 1982.
18. "Diluted Magnetic Semiconductors: An Interface of Semiconductor Physics and Magnetism," Greater Washington Solid State Colloquium, presented at the University of Maryland, College Park, MD, May 5, 1983.
19. "Diluted Magnetic Semiconductors: An Interface of Semiconductor Physics and Magnetism," Physics Colloquium at Argonne National Laboratory, Argonne, IL, May 16, 1984.
20. "Electrical Magnetic, and Optical Properties of Diluted Magnetic Semiconductors," Solid State Physics Seminar, Harvard University, March 8, 1985.
21. "Diluted Magnetic Semiconductors," Physics Colloquium, North Carolina State University, Raleigh, NC, April 15, 1985.
22. "Diluted Magnetic Semiconductors: An Interface of Semiconductor Physics and Magnetism," Physics Colloquium, University of Notre Dame, Notre Dame, IN, April 24, 1985.
23. "Physics and Technology of Diluted Magnetic Semiconductors," *Frontiers-in-Science* Colloquium Series, Minneapolis-Honeywell, Bloomington, MN, July 23, 1985.
24. "The Effect of Photon Momentum on Electron Spin Resonance in Solids," Physics Colloquium, North Carolina State University, Raleigh, NC, August 19, 1985.

25. "Basic Science and Technology of Diluted Magnetic Semiconductors," a lecture series presented in the Physics Department, North Carolina State University, Raleigh, NC, August 20, 21, and 22, 1985.
26. "Helicon-Excited Electron Paramagnetic Resonance," Physics Seminar, University of Notre Dame, October 10, 1985.
27. "Observation of Time Reversal Symmetry in Spin Resonance in Solids," Physics Colloquium, Northwestern University, March 11, 1987.
28. "Device Opportunities for Diluted Magnetic Semiconductors," Eastman Kodak Company, Rochester, NY, December 15, 1987.
29. "Diluted Magnetic Semiconductors: an interface of Semiconductor Physics and Magnetism," Physics Colloquium, Goshen college, Goshen, IN, February 17, 1988.
30. "Diluted Magnetic Semiconductors and their Applications," Honeywell, Bloomington, MN, December 8, 1988.
31. "Diluted Magnetic Semiconductors," Minneapolis Chapter of IEEE on Magnetic, Minneapolis, MN, December 8, 1988.
32. "Diluted Magnetic Semiconductors and their Device Application," Distinguished Scientist Colloquium Series, For Research Laboratories, Dearborn, MI, February 17, 1989.
33. "Diluted Magnetic Semiconductors: an Interface of Semiconductor Physics and Magnetism," Physics Colloquium at State University of New York, Buffalo, NY, November 17, 1988.
34. "Electronic and Magnetic Properties of Diluted Magnetic Semiconductor Thin Films and Multilayers," Solid State Physics Seminar, Purdue University, W. Lafayette, IN, April 21, 1989.
35. "Iron-Based Narrow Gap and Zero-Gap Semiconductors," Solid State Seminar, San Diego State University, April 27, 1989.
36. "Diluted Magnetic Semiconductor Thin Films and Multilayers," Solid State Physics Seminar, University of Nebraska, Lincoln, NE, June 27, 1989.
37. "Diluted Magnetic Semiconductor Thin Films and Multilayers," Solid State Physics Seminar, Solar Energy Research Institute, Golden, CO, June 30, 1989.
38. "Semimagnetic Thin Films and Superlattices," Solid State Physics Seminar, Institute of Physics of the Polish Academy of Sciences, Warsaw, Poland, July 20, 1989.

39. "Diluted Magnetic Semiconductors and their Layered Structures," Condensed Matter and Surface Sciences Seminar, Ohio University, Athens, OH, October 19, 1989.
40. "Diluted Magnetic Semiconductors and Their Device Applications," Physics Colloquium, National Research Council of Canada, Ottawa, Canada, November 3, 1989.
41. "Spin dynamics in a diluted Heisenberg NN antiferromagnet on a HCP lattice: $Zn_{1-x}Mn_xSe$," T.M. Giebultowicz, J.A. Fernandez-Baca, R.M. Nicklow, J.K. Furdyna, and U. Debska, J. Applied Phys. (Abstract).
42. "Onset of helimagnetism in weakly strained epitaxial FCC antiferromagnet $Cd_{1-x}Mn_xSe$," T.M. Giebultowicz, V. Nunez, N. Samarth, H. Luo, and J.K. Furdyna, J. Appl. Phys. (Abstract).
43. "Magnetic Ordering in Diluted Magnetic Semiconductors," Colloquium, Naval Research Laboratory, presented by J.K. Furdyna in December 1990.
44. "Novel Optical and Magnetic Phenomena in Diluted Magnetic Semiconductor Superlattices and Quantum Wells," Colloquium, Department of Electrical and Computer Engineering, University of Missouri, Columbia, Missouri, presented by N. Samarth in June 1990.
45. "Recent Developments in II-VI and Magnetic Semiconductor Heterostructures," IBM T. J. Watson Research Center, Yorktown Heights, New York, presented by N. Samarth in October 1990.
46. "Strain, Dimensionality and Dilution Effects in Epitaxial FCC Antiferromagnets," Solid State Seminar, Department of Physics, University of Notre Dame, Indiana, presented by N. Samarth in November 1990.
47. "Quasi-2D Confinement of Excitons and Magnetic Polarons in Wide-Gap Semiconductor Quantum Wells," Colloquium, Department of Physics, University of Notre Dame, Indiana, presented by N. Samarth in March 1991.
48. "Exciton Confinement and Stimulated Emission in Wide-gap II-VI Semiconductor Quantum Well Structures," Colloquium, Center for Electronic and Electro-optic Materials, State University of New York, Buffalo, New York, presented by N. Samarth in April 1991.
49. "The Semiconductor Blue Laser," Solid State Seminar, Institute of Physics of the Polish Academy of Sciences, Warsaw, Poland, June 11, 1991, presented by J.K. Furdyna.
50. "Electronic Effects Determining the Formation of Ferromagnetic $III_{1-x}Mn_xV$ Alloys During Epitaxial Growth," Physics Colloquium, Ohio University, Athens, Ohio, 09/29/2005.

51. "Making Semiconductors Ferromagnetic: Challenges and Opportunities," Physics Colloquium, Virginia Tech, Blacksburg, VA, April 7, 2006.
52. "Ferromagnetic semiconductors and their device applications," Physics Colloquium, Adam Mickiewicz University, Poznan, Poland, September 20, 2006.
53. "Magnetic Semiconductor Spintronics: Opportunities and Challenges," Physics Colloquium, Korea University, Seoul, Korea, October 26, 2006.
54. "Making Semiconductors Ferromagnetic: Challenges and Opportunities," Physics Colloquium, University of North Carolina, Chapel Hill, NC, November 16, 2006.
55. "Spin effects in semiconductors," Physics Colloquium, University of British Columbia, Vancouver, BC, November 28, 2006.
56. "Ferromagnetic semiconductors: candidates for new type of non-volatile magnetic memory," Seminar, Microsoft Corporation, Seattle, WA, December 1, 2006.
57. "The effect of unintended consequences in scientific discovery," Public Lecture, University of Washington, Seattle, WA, December 1, 2006.
58. "The Physics of Ferromagnetic Semiconductors," Physics Colloquium, Wayne State University, 02/02/07.
59. "Ferromagnetic Semiconductors: Opportunities and Challenges," Physics Colloquium, Purdue University, 05/11/07.
60. "Physics and Technology of II-VI Semiconductor Alloys," solid State Seminar, Department of electrical Engineering, Arizona State University.
61. "Electronic Effects in the Growth of GaMnAs," Condensed Matter Seminar, Department of Physics, University of Notre Dame, 12/07/07.
62. "Ferromagnetic Semiconductors: Fabrication and Physical Properties," Solid State Physics Seminar, Department of Physics, Indiana University – Bloomington, 10/20/2008.
63. "Magnetic Semiconductor Spintronics: Opportunities and Challenges," Physics Colloquium, Dalhousie University, Halifax, Nova Scotia, 10/22/09.
64. "Magnetic Semiconductor Spintronics: Opportunities and Challenges," Physics Colloquium, St. Francis Xavier University, Antigonish, Nova Scotia, 10/23/09.
65. "The Road to Nowhere: Epic of Deported Civilian Population to the Soviet Union 1939-1945," Physics Colloquium, University of Massachusetts, Boston, MA, 11/9/09.
66. "Magnetic Semiconductor Spintronics: Opportunities and Challenges," Physics Colloquium, University of Oklahoma, Norman, OK, 11/12/09.

67. “The Effect of Fermi Level on the Growth of $\text{III}_{1-x}\text{Mn}_x\text{V}$ Alloys,” Physics Colloquium, University of Oklahoma, Norman, OK, 11/12/09.
68. “Interlayer exchange coupling in ferromagnetic semiconductor multilayers,” General Colloquium, Institute of Physics, Polish academy of Sciences, Warsaw, Poland, 10/28/2010.
69. “Making Semiconductors Ferromagnetic”, Physics Colloquium, Department of Physics, Iowa State University, Ames, Iowa, April 2, 2012
70. “Making semiconductors one-dimensional: nanowires, nanotubes, and nanoribbons”, physics colloquium presented on March 28, 2013 at the State University of New York at Buffalo.

Ph.D. Theses Supervised by J.K. Furdyna

1. Frank L. Galeener, "Single and Multiple Scattering of Electromagnetic Waves by Particulate Solid State Plasmas," Purdue University, 1970.
2. Thomas A. Evans, "Rayleigh Magnetic Mode Absorption in a Solid State Magnetoplasma," Purdue University, 1971.
3. K. K. Chen, "Gyrotropic Microwave Propagation in n-type Indium Antimonide Powder," Purdue University, 1972.
4. Alan R. Krauss, "Alfvén Wave Propagation and Damping in Pyrolytic and Single Crystal Graphite," Purdue University, 1972.
5. Ronald T. Holm, "Helicon Transmission and Helicon-Excited Paramagnetic Resonance in $\text{Hg}_{1-x}\text{Mn}_x\text{Te}$," Purdue University, 1973.
6. Joseph R. Dixon, Jr., "Microwave Resonances in Spherical Magnetoplasmas," Purdue University, 1979.
7. Jean E. Sansonetti, "Microwave Magnetoplasma Effects in Semiconductor Powders and Arrays of Spheres," Purdue University, 1979.
8. Donald P. Mullin, "Microwave Studies of Semimagnetic Semiconductors," Purdue University, 1980.
9. Russell E. Kremer, "Microwave Studies of Electron Paramagnetic Resonance in Diluted Magnetic Semiconductors," Purdue University, 1983.
10. Yang-Fang Chen, "Far-Infrared Magnetospectroscopy of InSb," Purdue University, 1984.
11. Nitin Samarth, "Electron Paramagnetic Resonance in $\text{Cd}_{1-x}\text{Mn}_x\text{Te}$, $\text{Cd}_{1-x}\text{Mn}_x\text{Se}$, and $\text{Cd}_{1-x}\text{Mn}_x\text{S}$," Purdue University, 1986.
12. David D. Kirchofer, "Spatial Trajectories of Conduction Electrons in a Narrow-Gap Semiconductor in an External Magnetic Field," Purdue University, 1987.
13. Zhi-Yu Yang, "Far-Infrared Magneto-optical Transitions in Type-III Superlattices," Purdue University, 1988.
14. Hong Luo, "Far-Infrared Magneto-Optical Spectroscopy of Semiconductors in Bulk and Epitaxial Layer Form," Purdue University, 1988.
15. Sridevi Rajagopalon, "Microwave Magnetic Resonances in Solids," Purdue University, 1988.

16. Przemyslaw Klosowski, "Neutron Scattering Studies of Magnetic Semiconductors," Notre Dame, 1992.
17. Gui-lin Yang, "Electron Paramagnetic Resonance in II-VI Semiconductor Heterostructures," Notre Dame, 1993.
18. Nikolaos G. Semaltianos, "Persistent Photoconductivity in II-VI-Based Semiconducting Compounds and Alloys," Notre Dame, 1994.
19. Bing Hua Hu, "Deep Level Defects in II-VI Compound Semiconductor Materials," Notre Dame, 1994.
20. Ajay Pareek, "Optical Studies of Monolayer Structures and Interfaces in Epitaxial II-VI Semiconductor Systems," Notre Dame, 1995.
21. Loretta Lewandowski, "Semiconductor Superlattices with Small Band Offsets and Intermediate Dimensionality," Notre Dame, 1995.
22. Maan Qazzaz, "Paramagnetic Resonance Absorption in Strained-Layer ZnTe/MuTe and CdTe/MnTe Superlattices," Notre Dame, 1996.
23. Steven W. Short, "Optical Investigation of the Quantum Confined Stark Effect in II-VI Semiconductor Heterostructures," Notre Dame, 1996.
24. Sanghoon Lee, "Magneto-Optical Study of II-VI Epilayers and Their Heterostructures Using Diluted Magnetic Semiconductors," Notre Dame, 1996.
25. Frank C. Periris, "Measurement and Applications of dispersion in Epitaxial II-VI Semiconductor Thin Films and Multilayers," Notre Dame, 1999.
26. Luis Montes, "Electron Paramagnetic Resonance Studies of Diluted Magnetic Semiconductor Nanostructures," Notre Dame, 1999.
27. Y. Sasaki. "Epitaxial Growth and Investigation of the Physical Properties of Ferromagnetic III-V Semiconductor: GaMnAs," Notre Dame, 2002.
28. Xinyu Liu Notre Dame, "Thin Semiconductor Alloy Films: Fabrication and Physical Properties". Notre Dame, 2003.
29. Yong-Jin Cho, Notre Dame, "Control of Magnetic Properties of Ferromagnetic Semiconductor (Ga,Mn)As by MBE Fabrication Methods," Notre Dame, 2009.
30. Ying-Yuan Zhou, "Ferromagnetic Resonance Study of Spin Dynamics in GaMnAs Films," Notre Dame, 2009.