

List of publications: Prof. Vitalii Dugaev

Book chapters

1. V.K. Dugaev.
Theory of impurity states in IV-VI semiconductors.
In: *"Physical Fundamentals of the Materials Science of Semiconductors"*, edited by K.D. Tovstyuk (Naukova Dumka, Kiev, 1982), pp. 115 – 126.
2. F.G. Aliev, V.K. Dugaev, J. Barnaś.
Localization and interactions in magnetic nanostructures.
In: *"Encyclopedia of Nanoscience and Nanotechnology"*, edited by H.S. Nalwa, Vol. 4 (American Scientific, New York, 2004), pp. 587 – 605.
3. V.K. Dugaev, M. Taillefumier, B. Canals, C. Lacroix, P. Bruno.
Anomalous Hall effect.
In: *"Strongly Correlated Systems, Coherence and Entanglement"*, edited by J. Carmelo, J. Lopes dos Santos, V.R. Vieira, P.D. Sacramento (World Scientific, Singapore, 2007), pp. 145 – 161.
4. V.K. Dugaev, M.A.N. Araújo, V.R. Vieira, P.D. Sacramento, J. Barnaś, J. Berakdar.
Spin transport in magnetic nanowires with domain walls.
In: *"Strongly Correlated Systems, Coherence and Entanglement"*, edited by J. Carmelo, J. Lopes dos Santos, V.R. Vieira, P.D. Sacramento (World Scientific, Singapore, 2007), pp. 311 – 332.
5. N. Sedlmayr, J. Berakdar, M.A.N. Araujo, V.K. Dugaev, J. Barnaś.
Spin and charge transport in magnetic nanowires.
In: *"Nanowires - Fundamental Research"*, edited by A. Hashim, pp. 485 – 506 (InTech, Croatia, 2011). ISBN 978-953-307-327-9.
6. P. Horley, V.R. Vieira, J. Gonzales-Hernández, V.K. Dugaev, J. Barnaś.
Numerical simulation of nano-scale magnetization dynamics.
In: *"Numerical Simulations of Physical and Engineering Processes"*, edited by J. Awrejcewicz, pp. 133 – 156 (InTech, Croatia, 2011). ISBN 978-953-307-620-1.
7. E.Ya. Sherman D.V. Khomitsky, V.K. Dugaev.
Spin dynamics in one-dimensional semiconductors: unusual relaxation and resonances.
In: *Advances in Semiconductor Research: Physics of Nanosystems, Spintronics and Technological Applications*, edited by D.P. Adorno and S. Pokutnyj, Chap. 7, pp. 105 – 145 (Nova Science Publ., New York, 2015).
8. J. Barnaś, A. Dyrdał, M. Inglot, V.K. Dugaev.
Thermal spin polarization in bi-dimensional systems.
In: *Magnetic Nano- and Microwires*, edited by M. Vázquez (Woodhead Publishing, Cambridge, 2015), pp. 545-568.
9. J. Barnaś, V.K. Dugaev. Giant magnetoresistance.
In: *Handbook of Surface Science: Magnetism of Surfaces, Interface, and Nanoscale Materials*, edited by R.E. Camley, Z. Celinski, R.L. Stamps (Elsevier, Amsterdam, 2015), pp.371-420. ISBN-13: 978-0444626344
10. J. Barnaś, P. Balaz, A. Dyrdał, V.K. Dugaev. Electrical and thermal control of magnetic moments.
In: *Symmetry, Spin Dynamics and the Properties of Nanostructures*, edited by V.K. Dugaev, A. Wal, J. Barnaś (World Scientific, Singapore, 2016), p.26-41. ISBN: 978-981-4740-36-4.

Book

1. V.K. Dugaev, A. Wal, J. Barnaś (Editors).
Symmetry, Spin Dynamics and the Properties of Nanostructures
(World Scientific, Singapore, 2016), 315 pp. ISBN: 978-981-4740-36-4.

Proceedings and book publications

1. V.K. Dugaev.
Interaction between impurities in semiconductors with structural phase transitions.
In: *"Physical Fundamentals of the Materials Science of Semiconductors"*, edited by K.D. Tovstyuk (Naukova Dumka, Kiev, 1986), pp. 116 – 119.

2. V.K. Dugaev.
Mechanism of elastic interactions of free electrons with defects in semiconductors.
In: *"Materials Science of Narrow Gap and Layered Semiconductors"*, edited by K.D. Tovstyuk (Naukova Dumka, Kiev, 1989), pp. 9 – 11.
3. I. Kurylishin, M. Arcyszewska, M.M. Abdel Aziz, W. Dobrowolski, E.I. Slynko, V.E. Slynko, V.K. Dugaev.
In quest of Mn-Eu interaction in IV-VI mixed crystals.
In: *"Narrow Gap Semiconductors"*, edited by N. Puhlmann, H.-U. Müller, M. von Ortenberg (Magnetotransport – Humboldt University, Berlin, 2000), pp. 96 – 98.
4. I. Stolpe, N. Portugall, M. von Ortenberg, W. Dobrowolski, A.Yu. Sipatov, V.K. Dugaev.
High field magnetospectroscopy of EuS/PbS multiquantum wells.
In: *"Narrow Gap Semiconductors"*, edited by N. Puhlmann, H.-U. Müller, M. von Ortenberg (Magnetotransport – Humboldt University, Berlin, 2000), pp. 171 – 173.
5. V.K. Dugaev, J. Barnaś.
Quantum corrections to conductivity in magnetic quantum wells.
In: *"Symmetry and Structural Properties of Condensed Matter"*, edited by T. Lulek, B. Lulek, A. Wal (World Scientific, Singapore, 2001), pp. 243 – 247.
6. V.K. Dugaev, Yu. Vygranenko, M. Vieira, V.I. Litvinov, J. Barnaś.
Magnetically controlled photovoltaic diode structure.
In: *"Magnetic and Electronic Films - Microstructure, Texture and Application to Data Storage"*, edited by P.W. DeHaven, D.P. Field, S.D. Harkness IV, J.A. Sutliff, J.A. Szpunar, L. Tang, T. Thomson, M.D. Vadin. MRS Proceedings, Vol. 721 (Materials Research Society, Warrendale, 2002), pp. 223 – 228.
7. V.F. Mitin, V.V. Kholevchuk, V.K. Dugaev, M. Vieira.
Low temperature properties of compensated Ge films used for cryogenic thermometers.
In: *"Defect and Impurity Engineered Semiconductors and Devices III"*, edited by S. Ashok, J. Chevallier, N.M. Johnson, B.L. Sopor, H. Okushi. MRS Proceedings, Vol. 719 (Materials Research Society, Warrendale, 2002), pp. 445 – 450.
8. V.K. Dugaev, G.G. Ihas, C. McKenney, V.V. Kholevchuk, V.F. Mitin, I.Yu. Nemish, E.A. Soloviev, M. Vieira.
Characterization and modeling of Ge film thermometers for low temperature measurements.
In: *Proceedings of IEEE Sensors 2002. First IEEE International Conference on Sensors*, Vol. 2 (Piscataway, NJ, 2002), pp. 1275 – 1280.
9. N.S. Boltovets, V.K. Dugaev, P.C. McDonald, V.F. Mitin, F. Pavese, P.V. Sorokin, E.F. Venger.
New generation of resistance thermometers based on Ge films on GaAs substrates.
In: *"Temperature: Its Measurement and Control in Science and Industry, Volume Seven"*, edited by D.C. Ripple, AIP Conference Proceedings **684**, Vol. 1, 2003, pp. 399 – 404.
10. J. Barnaś, V.K. Dugaev.
Transport properties of domain walls in ferromagnets.
In: *"Symmetry and Structural Properties of Condensed Matter"*, edited by T. Lulek, B. Lulek, A. Wal (World Scientific, Singapore, 2003), pp. 406 – 419.
11. V.F. Mitin, G.G. Ihas, C. McKenney, V.K. Dugaev, M. Vieira.
Resistance thermometers based on Ge films on GaAs substrates: low-temperature conduction and magnetoresistance mechanism.
In: *Proceedings of the 17th European Conference on Solid-State Transducers "Euroensors XVII"*, (Guimarães, 2003).
12. V.K. Dugaev, V.F. Mitin.
Modeling of characteristics for low-temperature Ge-film sensors.
In: *Proceedings of the 2nd International Seminar and Workshop on Low Temperature Thermometry*, edited by A. Szmyrka-Grzebyk and A. Kowal (INTiBS, Wrocław, 2003), pp. 151 – 157.
13. V.F. Mitin, P.C. McDonald, F. Pavese, N.S. Boltovets, V.V. Kholevchuk, I.Yu. Nemish, V.V. Basanets, V.K. Dugaev, P.V. Sorokin, E.F. Venger, E.V. Mitin.
New temperature and magnetic field sensors for cryogenic applications developed under a European Project.
Proceedings of 20th International Cryogenic Engineering Conference ICEC20, edited by L. Zhang (Elsevier, Amsterdam, 2005), pp. 971 – 974.
14. V.F. Mitin, V.K. Dugaev, G.G. Ihas.
Conduction and magnetoresistance mechanisms in Germanium films used for low-temperature resistance thermometers.
In: *"Low Temperature Physics: 24 International Conference on Low Temperature Physics"*, edited by Y. Takano, S.P. Hershfield, S.O. Hill, P.J. Hirschfeld, and A.M. Goldman. AIP Conference Proceedings **850** (2006), pp. 1472 – 1473.
15. W. Dobrowolski, B. Brodowska, M. Arcyszewska, I. Kuryliszyn-Kudelska, V. Domukhovski, M. Wojcik, V.E. Slynko, E.I. Slynko, V.K. Dugaev.

- Magnetic properties of $\text{Ge}_{1-x-y}\text{Mn}_x\text{Eu}_y\text{Te}$ mixed crystals.
 In: *"Physics of Semiconductors: 28th International Conference on the Physics of Semiconductors"*, edited by W. Jantsch, F. Schaffler.
 AIP Conference Proceedings **893** (2007), pp. 1231 – 1232.
16. P.M. Gorley, V.K. Dugaev, J. Barnaś, M. Vieira, P.P. Horley, O.M. Mysliuk.
 Spin polarization in a diluted magnetic semiconductor under impurity photoexcitation.
 In: *"Novel Semiconductor Materials for Room-Temperature Ferromagnetism"*, edited by C.R. Abernathy, S. Bedair, P. Ruterana, R. Frazier. MRS Proceedings, Vol. 999, (Materials Research Society, Warrendale, PA, 2007), pp. 64 – 69.
17. N. Sedlmayr, J. Berakdar, M.A.N. Araujo, V.K. Dugaev, J. Barnaś.
 Spin and charge transport in magnetic nanowires.
 In: *"Nanowires - Fundamental Research"*, edited by A. Hashim, pp. 485 – 506 (InTech, Croatia, 2011). ISBN 978-953-307-327-9.
18. P. Horley, V.R. Vieira, J. Gonzales-Hernández, V.K. Dugaev, J. Barnaś.
 Numerical simulation of nano-scale magnetization dynamics.
 In: *"Numerical Simulations of Physical and Engineering Processes"*, edited by J. Awrejcewicz, pp. 133 – 156 (InTech, Croatia, 2011). ISBN 978-953-307-620-1.

Articles in journals of international circulation

1. E.L. Dolgov, V.K. Dugaev.
 Influence of lattice disorder on electrical properties of solid solutions of semiconductors.
Sov. Physics – Solid State, Vol. 18, No. 3, pp. 517 – 518 (1976).
2. E.L. Dolgov, V.K. Dugaev, P.P. Petrov.
 Impurity state in narrow- and zero-gap semiconductors.
Soviet Physics Journal, vol. 20, No. 1, pp. 87 – 90 (1977).
3. E.L. Dolgov, V.K. Dugaev, P.P. Petrov.
 Some properties of an impurity band of semiconductors.
Sov. Physics – Solid State, Vol. 20, No. 6, pp. 945 – 947 (1978).
4. V.K. Dugaev, V.L. Volkov, V.I. Litvinov, K.D. Tovstyuk.
 Effect of interband hybridization on the displacive phase transition in $\text{Pb}_{1-x}\text{Sn}_x\text{Te}$.
Sov. Physics – Solid State, Vol. 20, No. 7, pp. 1163 – 1166 (1978).
5. V.K. Dugaev, P.P. Petrov.
 Energy spectrum particularities of gapless semiconductors with impurities.
Solid State Communications, Vol. 26, No. 5, pp. 303 – 305 (1978).
6. V.K. Dugaev, P.P. Petrov.
 Resonance scattering of electrons in zero-gap semiconductors.
Sov. Physics – Solid State, Vol. 21, No. 3, pp. 530 – 531 (1979).
7. V.I. Litvinov, V.K. Dugaev.
 Peculiarity of the magnetic susceptibility near the ferroelectric phase transition point in narrow-gap A_4B_6 semiconductors.
Sov. Physics – JETP, Vol. 50, No. 1, pp. 172 – 176 (1979).
8. V.K. Dugaev, P.P. Petrov.
 Thermoelectric power and Hall coefficient of zero-gap semiconductors at low temperatures.
Sov. Physics – Semiconductors, Vol. 13, No. 8, pp. 910 – 913 (1979).
9. V.I. Litvinov, V.L. Volkov, V.K. Dugaev.
 Influence of a magnetic field on the temperature of structural phase transition in a degenerate semiconducting ferroelectric.
Sov. Physics – Solid State, Vol. 21, No. 7, pp. 1105 – 1107 (1979).
10. V.K. Dugaev, V.I. Litvinov, K.D. Tovstyuk.
 On ferromagnetism and ferroelectricity coexistence in systems with electron-hole pairing.
Solid State Communications, Vol. 31, No. 10, pp. 703 – 704 (1979).
11. V.K. Dugaev, P.P. Petrov.
 Impurity band in $\text{Hg}_{1-x}\text{Cd}_x\text{Te}$ alloys.
Physica Status Solidi B, Vol. 96, No. 1, pp. 129 – 136 (1979).
12. V.I. Litvinov, V.L. Volkov, V.K. Dugaev.
 Phase diagram of a system with interband electron-phonon interaction.
Sov. Physics – Solid State, Vol. 22, No. 1, pp. 32 – 35 (1980).

13. V.K. Dugaev, V.I. Litvinov, E.A. Pashitskii, A.S. Shpigel.
Phase diagram of the ferromagnetic ordering in systems with electron-hole pairing.
Sov. Physics – Solid State, Vol. 22, No. 1, pp. 115 – 118 (1980).
14. P.P. Petrov, V.K. Dugaev, R.V. Lutsiv.
Activity coefficient of mercury in HgTe.
Inorganic Materials, Vol. 16, No. 9, pp. 1040 – 1042 (1980).
15. V.K. Dugaev, K.D. Tovstyuk.
Impurity states in narrow-gap IV-VI semiconductors.
Sov. Physics – Semiconductors, Vol. 14, No. 12, pp. 1405 – 1407 (1980).
16. D.A. Kichigin, O.A. Mironov, V.K. Dugaev, P.P. Petrov, I.M. Rarenko, E.B. Talyanskii.
Longitudinal magnetoresistance in zero-gap HgCdTe at low temperatures.
Solid State Communications, Vol. 37, No. 4, pp. 345 – 348 (1981).
17. V.I. Litvinov, V.K. Dugaev.
Magnetic properties of excitonic dielectrics with real spectra.
Sov. Physics – JETP, Vol. 54, No. 5, pp. 955 – 961 (1981).
18. V.I. Litvinov, V.K. Dugaev.
Complex order parameter at the excitonic phase transition: the new mechanism of ferromagnetism.
Physica B+C, Vol. 108, No. 1–3, pp. 1077 – 1078 (1981).
19. V.K. Dugaev, V.I. Litvinov, K.D. Tovstyuk.
Interaction and spontaneous formation of defects in the vicinity of the phase transition point in crystals.
Physics Letters A, Vol. 92, No. 4, pp. 186 – 188 (1982).
20. V.K. Dugaev, V.I. Litvinov.
Phase transitions in IV-VI compounds. Phase symmetry and tricritical behavior.
Sov. Physics – Solid State, Vol. 25, No. 1, pp. 75 – 79 (1983).
21. V.K. Dugaev, D.E. Khmel'nitskii.
Magnetoresistance of metallic films with low impurity concentration in a parallel magnetic field.
Sov. Physics – JETP, Vol. 59, No. 5, pp. 1038 – 1041 (1984).
22. V.K. Dugaev, D.E. Khmel'nitskii.
Kinetic equation in the theory of localization.
Sov. Physics – JETP, Vol. 63, No. 5, pp. 1097 – 1104 (1986).
23. V.K. Dugaev, P.P. Petrov.
Energy spectrum of carriers in a narrow quantum well inside a zero-gap semiconductor.
Sov. Physics – Semiconductors, Vol. 22, No. 3, pp. 318 – 319 (1988).
24. V.K. Dugaev, P.P. Petrov.
Dirac model of the energy spectrum of carriers in a quantum well.
Sov. Physics – Semiconductors, Vol. 23, No. 3, pp. 305 – 307 (1989).
25. V.K. Dugaev, P.P. Petrov.
Spinodal decomposition in semiconductor alloys.
Physica Status Solidi B, Vol. 153, No. 1, pp. 115 – 122 (1989).
26. V.K. Dugaev, S.V. Kosyachenko.
Random walks in the presence of oriented random forces.
Journal of Physics A: Mathematical and General, Vol. 22, No. 13, pp. 2597 – 2600 (1989).
27. V.K. Dugaev, P.P. Petrov.
Indirect interaction of screened dipoles in narrow-gap IV-VI semiconductors.
Sov. Physics – Solid State, Vol. 31, No. 8, pp. 1407 – 1409 (1989).
28. V.K. Dugaev, L.S. Koroleva, P.P. Petrov, I.O. Polyakov.
Statistics of charge defects and impurities in CdTe upon complexation.
Inorganic Materials, Vol. 25, No. 9, pp. 1320 – 1322 (1989).
29. V.K. Dugaev, P.P. Petrov.
Levels created by a short-range defect and impurity potential in quantum wells made of IV-VI semiconductors.
Sov. Physics – Semiconductors, Vol. 23, No. 12, pp. 1386 – 1388 (1989).
30. V.A. Manasson, V.K. Dugaev, E.M. Shuster.
Photodiode with controllable photoresponse spectral characteristic.
Technical Physics Letters, Vol. 15, No. 9, pp. 726 – 727 (1989).
31. V.K. Dugaev, V.I. Litvinov.
Low-temperature spin glass in IV-VI semimagnetic semiconductors.
Physical Review B, Vol. 41, No. 1, pp. 788 – 790 (1990).

32. V.K. Dugaev, K.D. Tovstyuk.
Particularities of diffusion in two-dimensional systems with random forces.
Physica Status Solidi B, Vol. 160, No. 2, pp. 415 – 422 (1990).
33. V.K. Dugaev, V.A. Manasson, E.M. Shuster.
Particularities of the photoelectric response in structures with surface traps.
Solid State Electronics, Vol. 33, No. 11, pp. 1355 – 1358 (1990).
34. V.K. Dugaev, V.I. Litvinov, P.P. Petrov, O.A. Mironov, O.N. Nashchekina, M. Oszwałdowski.
Energy spectrum in quantum dots of lead and tin chalcogenides semiconducting compounds.
Acta Physica Polonica A, Vol. 82, No. 5, pp. 797 – 800 (1992).
35. V.K. Dugaev, V.I. Litvinov.
Interaction between magnetic impurities in lead chalcogenides and semimagnetic semiconductors based on them.
Inorganic Materials, Vol. 28, No. 12, pp. 1888 – 1892 (1992).
36. V.K. Dugaev, V.I. Litvinov, P.P. Petrov.
Electronic band structure in quantum dots for lead chalcogenides and their solid solutions.
Inorganic Materials, Vol. 28, No. 12, pp. 1897 – 1899 (1992).
37. V.K. Dugaev, V.I. Litvinov, P.P. Petrov, O.A. Mironov, M. Oszwałdowski.
Energy spectrum in quantum dots of IV-VI narrow-gap semiconductors.
Semiconductor Science and Technology, Vol. 8, No. 1, pp. S252 – 254 (1993).
38. V.K. Dugaev, V.I. Litvinov, M. Oszwałdowski.
Indirect exchange in band-inverted heterojunctions of IV-VI semimagnetic compounds.
Acta Physica Polonica A, Vol. 84, No. 4, pp. 709 – 712 (1993).
39. L.I. Anatyshuk, V.I. Litvinov, V.K. Dugaev, V.L. Volkov.
On a possibility of determination of minimal contact resistance between metal and thermoelectric material.
Journal of Thermoelectricity, No. 1, pp. 70 – 77 (1993).
40. V.K. Dugaev, P.P. Petrov, I.O. Polyakov.
Calculation of the chemical diffusion coefficient of impurities in cadmium telluride.
Inorganic Materials, Vol. 30, No. 2, pp. 265 – 266 (1994).
41. V.K. Dugaev, P.P. Petrov.
Electron energy spectrum and wave functions in a quantum well on the base of IV-VI narrow-gap semiconductors.
Physica Status Solidi B, Vol. 184, No. 2, pp. 347 – 354 (1994).
42. V.K. Dugaev, V.I. Litvinov, P.P. Petrov.
Magnetic impurity interactions in a quantum well on the base of IV-VI semiconductors.
Superlattices and Microstructures, Vol. 16, No. 4, pp. 413 – 417 (1994).
43. V.I. Litvinov, V.K. Dugaev, M. Oszwałdowski.
Deformation potentials in IV-VI quantum wells.
Acta Physica Polonica A, Vol. 87, No. 2, pp. 345 – 348 (1995).
44. V.K. Dugaev, P.P. Petrov.
Diffusion of ions in a layered crystal.
Physics of the Solid State, Vol. 37, No. 2, pp. 173 – 175 (1995).
45. V.K. Dugaev, P.P. Petrov.
Motion of electrons along a randomly curved surface.
Physics Letters A, Vol. 199, No. 5/6, pp. 339 – 343 (1995).
46. V.K. Dugaev, V.I. Litvinov, P.P. Petrov.
Electric-current transmission through the contact of two metals.
Physical Review B, Vol. 52, No. 7, pp. 5306 – 5312 (1995).
47. V.K. Dugaev, V.I. Litvinov, P.P. Petrov.
Magnetic impurity in a quantum well of a IV-VI narrow-gap semiconductor.
Semiconductor Science and Technology, Vol. 11, No. 1, pp. 80 – 83 (1996).
48. V.I. Litvinov, V.K. Dugaev, V.L. Volkov, M. Oszwałdowski.
Deformation potentials in narrow-gap quantum wells.
Inorganic Materials, Vol. 33, No. 2, pp. 203 – 207 (1997).
49. V.I. Litvinov, V.K. Dugaev, M.M.H. Willekens, H.J.M. Swagten.
Current-in-plane magnetoresistance: an approach to boundary conditions.
Physical Review B, Vol. 55, No. 13, pp. 8374 – 8381 (1997).
50. I.O. Polyakov, V.K. Dugaev, Z.D. Kovalyuk, V.I. Litvinov.
Simulation of lithium battery discharge.
Russian Journal of Electrochemistry, Vol. 33, No. 1, pp. 21 – 25 (1997).

51. M. Oszwałdowski, T. Berus, V.K. Dugaev.
Localization in heavily Pb-doped InSb thin films.
Molecular Physics Reports, Vol. 21, pp. 139 – 143 (1998).
52. V.I. Litvinov, V.K. Dugaev.
RKKY interaction in one- and two-dimensional electron gases.
Physical Review B, Vol. 58, No. 7, pp. 3584 – 3585 (1998).
53. L. Kowalczyk, J. Sadowski, R.R. Gałazka, A. Stachow-Wójcik, A.Yu. Sipatov, V.V. Volobuev, V.A. Smirnov, V.K. Dugaev.
A photoluminescence study in PbS-EuS superlattices.
Acta Physica Polonica A, Vol. 94, No. 3, pp. 397 – 400 (1998).
54. V.K. Dugaev, V.I. Litvinov, W. Dobrowolski, T. Story.
Interaction between magnetic layers in structures with narrow-gap IV-VI semiconductors.
Solid State Communications, Vol. 110, No. 6, pp. 351 – 355 (1999).
55. V.K. Dugaev, V.I. Litvinov, A. Łusakowski.
Mixed-valence states in narrow-gap IV-VI semiconductors with rare-earth ions.
Physical Review B, Vol. 59, No. 23, pp. 15190 – 15196 (1999).
56. M. Oszwałdowski, T. Berus, V.K. Dugaev.
Phase relaxation time in polycrystalline InSb films heavily doped with Pb.
Annalen der Physik, Vol. 8, No. S1-3–S1-9, pp. 201 – 203 (1999).
57. V.K. Dugaev, V.I. Litvinov, W. Dobrowolski, T. Story.
Interaction between magnetic layers in structures with narrow-gap IV-VI semiconductors.
Acta Physica Polonica A, Vol. 97, No. 3, pp. 455 – 458 (2000).
58. V.K. Dugaev.
Mechanism of bipolar diffusion of intercalated ions in layered crystals.
Physica Status Solidi B, Vol. 219, No. 1, pp. 31 – 37 (2000).
59. V.K. Dugaev.
Mixed-valent states of rare-earth dopants in IV-VI semiconductors.
Inorganic Materials, Vol. 36, No. 5, pp. 524 – 526 (2000).
60. V. Mitin, J. McFarland, G.G. Ihas, V.K. Dugaev.
Ge film thermometers at ultralow temperatures in high magnetic fields.
Physica B, Vol. 284–288, No. 1–4, pp. 1996 – 1997 (2000).
61. V.K. Dugaev, V.I. Litvinov, W. Dobrowolski.
Level quantization in the narrow-gap-semiconductor quantum well in parallel magnetic field.
Physical Review B, Vol. 62, No. 3, pp. 1905 – 1911 (2000).
62. I. Stolpe, N. Puhlmann, O. Portugall, M. von Ortenberg, W. Dobrowolski, A.Yu. Sipatov, V.K. Dugaev.
Megagauss magnetospectroscopy of EuS/PbS multi-quantum wells.
Physical Review B, Vol. 62, No. 24, pp. 16798 – 16801 (2000).
63. V.K. Dugaev, O.A. Mironov, S.V. Kosyachenko.
Piezoelectric effects in *p*-Si/SiGe/(001)Si modulation doped heterostructures.
Condensed Matter Physics, Vol. 3, No. 4 (24), pp. 835 – 844 (2000).
64. V.K. Dugaev, J. Barnaś.
Electron-electron interaction effects in magnetic layered structures.
Europhysics Letters, Vol. 54, No. 1, pp. 105 – 111 (2001).
65. V.I. Litvinov, V.K. Dugaev.
Ferromagnetism in magnetically doped III-V semiconductors.
Physical Review Letters, Vol. 86, No. 24, pp. 5593 – 5596 (2001).
66. V.K. Dugaev, P. Bruno, J. Barnaś.
Weak localization in ferromagnets with spin-orbit interaction.
Physical Review B, Vol. 64, No. 14, 144423/1–13 (2001).
67. V.K. Dugaev, A. Crépieux, P. Bruno.
Localization corrections to the anomalous Hall effect in a ferromagnet.
Physical Review B, Vol. 64, No. 10, 104411/1–6 (2001).
68. V.K. Dugaev, A. Crépieux, P. Bruno.
Weak localization corrections to the anomalous Hall effect.
Journal of Magnetism and Magnetic Materials, Vol. 240, No. 1–3, pp. 159 – 161 (2002).
69. V.K. Dugaev, P. Bruno, J. Barnaś.
Localization corrections to charge and spin conductivity in ferromagnetic layered structures.
Journal of Magnetism and Magnetic Materials, Vol. 240, No. 1–3, pp. 200 – 202 (2002).

70. A. Crépieux, J. Wunderlich, V.K. Dugaev, P. Bruno.
Anomalous Hall effect and weak localization corrections in a ferromagnet.
Journal of Magnetism and Magnetic Materials, Vol. 242–245, P. 1, pp. 466 – 468 (2002).
71. V.K. Dugaev, P. Bruno, J. Barnaś.
Localization effects in magnetic structures with spin-orbit interaction.
Journal of Magnetism and Magnetic Materials, Vol. 242–245, P. 1, pp. 463 – 465 (2002).
72. V.K. Dugaev, J. Barnaś.
Large enhancement of the electron-electron interaction constant in magnetic layered structures.
Physica E, Vol. 12, No. 1, pp. 391 – 394 (2002).
73. M. Oszwaldowski, T. Berus, V.K. Dugaev.
Weak localization in InSb thin films heavily doped with lead.
Physical Review B, Vol. 65, No. 23, 235418/1–6 (2002).
74. A.H. Slobodsky, V.K. Dugaev, M. Vieira.
Ferromagnetic ordering in diluted magnetic semiconductors.
Condensed Matter Physics, Vol. 5, No. 3 (31), pp. 531 – 540 (2002).
75. V.K. Dugaev, J. Barnaś, A. Łusakowski, L.A. Turski.
Electrons in a ferromagnetic metal with a domain wall.
Physical Review B, Vol. 65, No. 22, 224419/1–9 (2002).
76. V.K. Dugaev, V.L. Volkov, M. Oszwaldowski, M. Vieira.
Energy relaxation at the inelastic scattering of electrons on localized states.
Technical Physics Letters, Vol. 28, No. 11, pp. 904–906 (2002).
77. V.K. Dugaev, V.I. Litvinov, J. Barnaś, M. Vieira.
Exchange interaction and ferromagnetism in III-V semiconductors.
Physical Review B, Vol. 67, No. 3, 033201/1–4 (2003).
78. V.K. Dugaev, Yu. Vygranenko, M. Vieira, V.I. Litvinov, J. Barnaś.
Modeling of magnetically controlled Si-based optoelectronic devices.
Physica E, Vol. 16, No. 3–4, pp. 558 – 562 (2003).
79. V.K. Dugaev, J. Barnaś, A. Łusakowski, L.A. Turski.
Accumulation of spin and charge and transport properties of ferromagnets with domain walls.
Physica Status Solidi A, Vol. 196, No. 1, pp. 177 – 180 (2003).
80. J. Barnaś, V.K. Dugaev, J. Martinek, W. Rudziński, R. Świrkowicz, I. Weymann, M. Wilczyński.
Spin related effects in magnetic mesoscopic systems.
Physica Status Solidi B, Vol. 236, No. 2, pp. 246 – 252 (2003).
81. V.K. Dugaev, V.I. Litvinov, J. Barnaś, A.H. Slobodskyy, W. Dobrowolski, M. Vieira.
Ferromagnetism in diluted magnetic semiconductors at low carrier density.
Physica Status Solidi B, Vol. 236, No. 2, pp. 507 – 510 (2003).
82. G.G. Ihas, C. McKenney, V.F. Mitin, V.K. Dugaev.
Design of "zero magneto-resistance" Ge thin film thermometers.
Bulletin of American Physical Society, Vol. 48, p. 1277 (2003).
83. V.K. Dugaev, V.I. Litvinov, J. Barnaś, A.H. Slobodskyy, W. Dobrowolski, M. Vieira.
Mechanism of ferromagnetism in diluted magnetic semiconductors at low carrier density.
Journal of Superconductivity: Incorporating Novel Magnetism, Vol. 16, No. 1, pp. 67 – 70 (2003).
84. V.K. Dugaev, J. Barnaś, A. Łusakowski, L.A. Turski
Electrons in magnetic structures with domain walls: charge and spin accumulation and the transport properties.
Journal of Superconductivity: Incorporating Novel Magnetism, Vol. 16, No. 1, pp. 15 – 18 (2003).
85. K. Racka, I. Kuryliszyn, M. Arciszewska, W. Dobrowolski, J.-M. Broto, M. Goiran, O. Portugall, H. Rakoto, B. Raquet, V.K. Dugaev, E.I. Slynko, V.E. Slynko.
Anomalous Hall effect in $\text{Sn}_{1-x-y}\text{Mn}_x\text{Eu}_y\text{Te}$ mixed crystals.
Journal of Superconductivity: Incorporating Novel Magnetism, Vol. 16, No. 2, pp. 289 – 291 (2003).
86. V.K. Dugaev, Yu. Vygranenko, M. Vieira, V.I. Litvinov, J. Barnaś.
Modeling of magnetically controlled Si-based optoelectronic devices.
Physica E, Vol. 16, No. 3–4, pp. 558 – 562 (2003).
87. V.K. Dugaev, J. Barnaś, J. Berakdar.
Electrons in ferromagnets with domain walls.
Journal of Physics A: Mathematical and General, Vol. 36, No. 35, pp. 9263 – 9274 (2003).
88. F.G. Aliev, R. Schäd, A. Volodin, K. Temst, C. Haesendonck, Y. Bruynseraede, I. Vavra, V.K. Dugaev, R. Villar.
Electron interaction with domain walls in antiferromagnetically coupled multilayers.
Europhysics Letters, Vol. 63, No. 6, pp. 888 – 894 (2003).

89. V.K. Dugaev, J. Berakdar, J. Barnaś.
Reflection of electrons from a domain wall in magnetic nanojunctions.
Physical Review B, Vol. 68, No. 6, 104434/1-6 (2003).
90. J. Barnaś, R. Świrkowicz, M. Wilczyński, I. Weymann, J. Martinek, V.K. Dugaev.
Spin polarized transport through quantum dots: Coulomb blockade and Kondo effect.
Acta Physica Polonica A, Vol. 104, No. 2, pp. 165 – 177 (2003).
91. V.I. Litvinov, V.K. Dugaev.
Comment on "Ferromagnetism in magnetically doped III-V semiconductors" – Reply.
Physical Review Letters, Vol. 92, No. 6, 069702 (2004).
92. R. Świrkowicz, J. Barnaś, M. Wilczyński, W. Rudziński, V.K. Dugaev.
Spin diode devices based on quantum dots.
Journal of Magnetism and Magnetic Materials, Vol. 272-276, Pt. 3, pp. 1959 – 1960 (2004).
93. V.K. Dugaev, M. Taillefumier, P. Bruno.
Topological Hall effect and Berry phase in magnetic nanostructures.
Physical Review Letters, Vol. 93, No. 9, 096806 (2004).
94. V.K. Dugaev, J. Barnaś.
Classical description of current-induced spin torque in multilayer structures.
Journal of Applied Physics, Vol. 97, No. 2, 023902 (2005).
95. A. Lusakowski, V.K. Dugaev.
Ground state splitting for the Mn^{2+} ion in $PbMnTe$ compounds.
Physical Review B, Vol. 71, No. 1, 014422 (2005).
96. V.K. Dugaev, J. Barnaś, J. Berakdar, V.I. Ivanov, W. Dobrowolski, V.F. Mitin.
Magnetoresistance of a semiconducting magnetic wire with domain wall.
Physical Review B, Vol. 71, No. 2, 024430 (2005).
97. M. Wilczyński, R. Świrkowicz, W. Rudziński, J. Barnaś, V.K. Dugaev.
Quantum dots attached to ferromagnetic leads: possibility of new spintronic devices.
Journal of Magnetism and Magnetic Materials, Vol. 290-291, Pt. 1, pp. 209 – 212 (2005).
98. J. Barnaś, A. Fert, M. Gmitra, I. Weymann, V.K. Dugaev.
From giant magnetoresistance to current-induced switching by spin transfer.
Physical Review B, Vol. 72, No. 2, 024426 (2005).
99. V.K. Dugaev, P. Bruno, M. Taillefumier, B. Canals, C. Lacroix.
Anomalous Hall effect in a two-dimensional electron gas with spin-orbit interaction.
Physical Review B, Vol. 71, No. 22, 224423 (2005).
100. V.K. Dugaev, P. Bruno, B. Canals, C. Lacroix.
Berry phase of magnons in textured ferromagnets.
Physical Review B, Vol. 72, No. 2, 024456 (2005).
101. P. Bruno, V.K. Dugaev.
Equilibrium spin currents and magnetoelectric effect in magnetic nanostructures.
Physical Review B (Rapid communications), Vol. 72, No. 24, 241302(R) (2005).
102. V.K. Dugaev, J. Berakdar, J. Barnaś, W. Dobrowolski, V.F. Mitin, M. Vieira.
Magnetoresistance due to domain walls in semiconducting magnetic nanostructures.
Materials Science and Engineering C, Vol. 25, No. 5-8, pp. 705 – 709 (2005).
103. J. Barnaś, A. Fert, M. Gmitra, I. Weymann, V.K. Dugaev.
Macroscopic description of spin transfer torque.
Materials Science and Engineering B, Vol. 126, No. 2-3, pp. 271 – 274 (2006).
104. V.K. Dugaev, J. Berakdar, J. Barnaś.
Resonant transmission through a double domain wall in magnetic nanowires.
Materials Science and Engineering B, Vol. 126, No. 2-3, pp. 256 – 259 (2006).
105. V.R. Vieira, P.D. Sacramento, V.K. Dugaev, J. Barnaś.
Spin accumulation, spin currents, and torque, in the problem of motion of a sharp domain wall in magnetic nanowires.
Physica Status Solidi B, Vol. 243, No. 1, pp. 193 – 196 (2006).
106. V.K. Dugaev, P. Bruno, M. Taillefumier, B. Canals, C. Lacroix.
Intrinsic mechanism of anomalous Hall effect in a two-dimensional magnetic system with impurities.
Physica Status Solidi C, Vol. 3, No. 1, pp. 44 – 47 (2006).
107. M. Gmitra, J. Barnaś, A. Fert, I. Weymann, V.K. Dugaev.
Current induced switching due to spin-transfer in spin valves: macroscopic model.
Physica Status Solidi C, Vol. 3, No. 1, pp. 97 – 100 (2006).

108. V.K. Dugaev, J. Berakdar, J. Barnaś.
Tunable conductance of magnetic nanowires with structured domain walls.
Physical Review Letters, Vol. 96, No. 4, 047208 (2006).
109. V.P. Makhniy, I.V. Tkachenko, P.M. Gorley, P.P. Horley, V.K. Dugaev, J. Barnaś, M. Vieira, W. Dobrowolski.
Peculiarities of defect formation processes in ZnSe crystals with isovalent Te impurity.
Physica Status Solidi C, Vol. 3, No. 4, pp. 829 – 832 (2006).
110. I. Kuryliszyn-Kudelska, W. Dobrowolski, M. Arciszewska, V. Domukhovski, V.K. Dugaev, V.E. Slynko, E.I. Slynko, I.M. Fita.
Curie temperature control by band parameters tuning in $\text{Pb}_{1-x-y-z}\text{Mn}_x\text{Sn}_y\text{Eu}_z\text{Te}$.
Semiconductor Science and Technology, Vol. 21, No. 8, pp. 1083 – 1089 (2006).
111. V.K. Dugaev, V.R. Vieira, P.D. Sacramento, J. Barnaś.
Current-induced motion of a domain wall in magnetic nanowires.
Physical Review B Vol. 74, No. 5, 054403 (2006).
112. B.B. Brodowska, W. Dobrowolski, M. Arciszewska, E.I. Slynko, V.K. Dugaev.
Anomalous Hall effect in IV-VI semimagnetic semiconductors.
Journal of Alloys and Compounds, Vol. 423, pp. 205 – 207 (2006).
113. M. Taillefumier, B. Canals, C. Lacroix, V.K. Dugaev, P. Bruno.
Anomalous Hall effect due to the spin chirality in the Kagomé lattice.
Physical Review B, Vol. 74, No. 8, 085105 (2006).
114. W. Dobrowolski, M. Arciszewska, B. Brodowska, V. Domukhovski, V.K. Dugaev, A. Grzeda, I. Kurylishyn-Kudelska, M. Wjcik, E.I. Slynko.
IV-VI ferromagnetic semiconductors: recent studies.
Science of Sintering (Belgrade), Vol. 38, No. 2, pp. 109 – 116 (2006).
115. M.A.N. Araújo, V.K. Dugaev, V.R. Vieira, J. Berakdar, J. Barnaś.
Transmission of correlated electrons through sharp domain walls in magnetic nanowires: a renormalization group approach.
Physical Review B, Vol. 74, No. 22, 224429 (2006).
116. V.K. Dugaev, V.I. Litvinov, J. Barnaś.
Exchange interaction of magnetic impurities in graphene.
Physical Review B, Vol. 74, No. 22, 224438 (2006).
117. N.A. Sinitsyn, A.H. MacDonald, T. Jungwirth, V.K. Dugaev, J. Sinova.
Anomalous Hall effect in 2D Dirac band: link between Kubo-Streda formula and semiclassical Boltzmann equation approach.
Physical Review B, Vol. 75, No. 4, 045315 (2007).
118. P.M. Gorley, P.P. Horley, V.K. Dugaev, J. Barnaś, W. Dobrowolski.
Application of self-organization methods to current-induced magnetization dynamics of a single domain ferromagnet.
Journal of Applied Physics, Vol. 101, No. 3, 034504 (2007).
119. V.K. Dugaev, V.R. Vieira, P.D. Sacramento, J. Barnaś, M.A.N. Araújo, J. Berakdar.
Current-induced spin torque on a domain wall in a magnetic nanowire.
International Journal of Modern Physics B, Vol. 21, No. 8-9, 1659 – 1663 (2007).
120. J. Berakdar, V.K. Dugaev, V.R. Vieira, P.D. Sacramento, J. Barnaś.
Spin transport and spin torque in a magnetic nanowire with a non-collinear magnetic order.
Journal of Physics Conference Series, Vol. 61, 105 – 109 (2007).
121. J. Barnaś, M. Gmitra, M. Misiorny, V.K. Dugaev.
Current induced switching in spin-valve structures.
Physica Status Solidi B, Vol. 19, No. 26, 266205 (2007).
122. V.K. Dugaev, P. Bruno.
Vacuum fluctuations and the spin current in mesoscopic structures with collinear magnetic order.
Physical Review B (Rapid communications), Vol. 75, No. 20, 201301(R) (2007).
123. S. Krompiewski, V.K. Dugaev, J. Barnaś.
Resonant decoherence due to electron-electron interactions in carbon nanotubes.
Physical Review B, Vol. 75, No. 19, 195422 (2007).
124. P.M. Gorley, V.K. Dugaev, J. Barnaś, P.P. Horley, O.M. Mysliuk.
Spin polarization and relaxation in a semiconductor with impurity absorption of circularly polarized light.
Journal of Physics: Condensed Matter, Vol. 19, No. 26, 266205 (2007).
125. J. Berakdar, V.K. Dugaev, V.R. Vieira, P.D. Sacramento, J. Barnaś.
Spin transport and spin torque in a magnetic nanowire with a non-collinear magnetic order.
Journal of Physics Conference Series, Vol. 61, 105 – 109 (2007).

126. P.M. Gorley, V.K. Dugaev, J. Barnaś, P.P. Horley, O.M. Mysliuk.
Spin polarization and relaxation in a semiconductor with impurity absorption of circularly polarized light.
Journal of Physics: Condensed Matter, Vol. 19, No. 26, 266205 (2007).
127. V.K. Dugaev, V.R. Vieira, P.D. Sacramento, J. Barnaś, M.A.N. Arajo, J. Berakdar.
Current-induced spin torque on a domain wall in a magnetic nanowire.
International Journal of Modern Physics B, Vol. 21, No. 8-9, 1659 – 1663 (2007).
128. V.K. Dugaev, P. Bruno.
Vacuum fluctuations and the spin current in mesoscopic structures with collinear magnetic order.
Physical Review B (Rapid communications), Vol. 75, No. 20, 201301(R) (2007).
129. S. Krompiewski, V.K. Dugaev, J. Barnaś.
Resonant decoherence due to electron-electron interactions in carbon nanotubes.
Physical Review B, Vol. 75, No. 19, 195422 (2007).
130. J. Barnaś, M. Gmitra, M. Misiorny, V.K. Dugaev.
Current induced switching in spin-valve structures.
Physica Status Solidi B, Vol. 244, No. 7, 2304 – 2310 (2007).
131. V.F. Mitin, P.C. McDonald, F. Pavese, N.S. Boltovets, V.V. Kholevchuk, I.Yu. Nemish, V.V. Basanets, V.K. Dugaev, P.V. Sorokin, R.V. Konakova, E.F. Venger, E.V. Mitin.
Ge-on-GaAs film resistance thermometers for cryogenic applications.
Cryogenics, Vol. 47, No. 9, 474 – 482 (2007).
132. P.D. Sacramento, V.K. Dugaev, V.R. Vieira.
Magnetic impurities in a superconductor: Effect of domain walls and interference.
Physical Review B, Vol. 76, No. 1, 014512 (2007).
133. M.A.N. Araújo, J. Berakdar, V.K. Dugaev, V. R. Vieira.
Role of a spin-flip scatterer in a magnetized Luttinger liquid.
Physical Review B, Vol. 76, No. 20, 205107 (2007).
134. P.D. Sacramento, P. Nogueira, V.R. Vieira, V.K. Dugaev.
Entanglement signatures of the quantum phase transition induced by a magnetic impurity in a superconductor.
Physical Review B, Vol. 76, No. 18, 184517 (2007).
135. V.F. Mitin, V.K. Dugaev, G.G. Ihas.
Large negative magnetoresistance in Ge films at ultralow temperatures and low magnetic fields.
Applied Physics Letters, Vol. 91, No. 20, 202107 (2007).
136. T.S. Nunner, N.A. Sinitsyn, M.F. Borunda, V.K. Dugaev, A.A. Kovalev, Ar. Abanov, C. Timm, T. Jungwirth, J. Inoue, A.H. MacDonald. J. Sinova.
Anomalous Hall effect in a two-dimensional electron gas.
Physical Review B, Vol. 76, No. 23, 235312 (2007).
137. J. Barnaś, M. Gmitra, W. Rudziński, M. Wawrzyniak, V.K. Dugaev, H. Kunert.
Spin-dependent phenomena in magnetoelectronic devices.
Acta Physica Polonica A, vol. 112, No. 6, 1259 - 1265 (2007).
138. M.A.N. Araújo, V.K. Dugaev, V.R. Vieira, J. Berakdar.
Spin dependent scattering in magnetized Luttinger liquids.
Physica E, Vol. 40, No. 5, 1736 – 1738 (2008).
139. P.P. Horley, V.R. Vieira, P.M. Gorley, V.K. Dugaev, J. Barnaś.
Current induced dynamics of a monodomain ferromagnet for arbitrary orientation of magnetic field and spin current polarization.
Physical Review B, Vol. 77, No. 9, 094427 (2008).
140. V.K. Dugaev, J. Barnaś, M. Taillefumier, B. Canals, C. Lacroix, P. Bruno.
Anomalous Hall effect and Berry phase in two-dimensional magnetic structures.
Journal of Physics: Conference Series, Vol. 104, 012018 (2008).
141. J. Barnaś, I. Weymann, P. Trocha, S. Krompiewski, V.K. Dugaev.
Charge and spin transport through artificial atoms and molecules.
Journal of Physics: Conference Series, Vol. 104, 012016 (2008).
142. N. Paunković, P.D. Sacramento, P. Nogueira, V.R. Vieira, V.K. Dugaev.
Fidelity between partial states as a signature of quantum phase transitions.
Physical Review A, Vol. 77, No. 5, 052302 (2008).
143. V.K. Dugaev, J. Barnaś, M. Taillefumier, B. Canals, C. Lacroix, P. Bruno.
Anomalous Hall effect and Berry phase in two-dimensional magnetic structures.
Journal of Physics: Conference Series, Vol. 104, No. 1, 012018 (2008).

144. J. Barnaś, I. Weymann, P. Trocha, S. Krompiewski, V.K. Dugaev.
Charge and spin transport through artificial atoms and molecules.
Journal of Physics: Conference Series, Vol. 104, No. 1, 012016 (2008).
145. J. Barnaś, M. Gmitra, M. Misiorny, V.K. Dugaev, H. Kunert.
Current-induced magnetic switching and dynamics in spin valves.
Journal of Non-Crystalline Solids, Vol. 354, 4181 – 4185 (2008).
146. V.K. Dugaev, P. Bruno, J. Barnaś.
Comment on "Weak localization in ferromagnetic (GaMn)As nanostructures".
Physical Review Letters, Vol. 101, No. 12, 129701 (2008).
147. M. Taillefumier, V.K. Dugaev, B. Canals, C. Lacroix, P. Bruno.
Chiral two-dimensional electron gas in a periodic magnetic field: Persistent current and quantized anomalous Hall effect.
Physical Review B, Vol. 78, No. 15, 155330 (2008).
148. P.P. Horley, V.R. Vieira, P.M. Gorley, V.K. Dugaev, J. Barnaś.
Influence of a periodic magnetic field and spin-polarized current on the magnetic dynamics of a monodomain ferromagnet.
Physical Review B, Vol. 78, No. 5, 054417 (2008).
149. P.M. Gorley, O.M. Mysliuk, M. Vieira, P.P. Horley, V.K. Dugaev, J. Barnaś.
Spin polarization of dilute magnetic semiconductors under optical excitation of impurity levels.
Ukrainian Journal of Physical Optics, Vol. 9, No. 1, 60 – 71 (2008).
150. V.K. Dugaev, P. Bruno, J. Barnaś,
Spin currents in magnetic nanostructures.
Acta Physica Polonica A, Vol. 114, No. 5, 975 – 982 (2008).
151. A. Dyrdał, V.K. Dugaev, J. Barnaś.
Anomalous Hall effect in IV-VI magnetic semiconductors.
Physical Review B, Vol. 78, No. 24, 245208 (2008).
152. B. Brodowska, I. Kuriliszyn-Kudelska, M. Arciszewska, K. Dybko, V. Domukhovski, W. Dobrowolski, V.E. Slynko, E.I. Slynko, V.K. Dugaev.
Transport and magnetic properties of GeMn(Eu,Yb)Te semimagnetic semiconductors.
Materials Science Poland, Vol. 26, No. 4, 927 – 932 (2008).
153. M. Taillefumier, V.K. Dugaev, B. Canals, C. Lacroix, P. Bruno.
Two-dimensional electron gas in a periodic magnetic field.
Journal of Magnetism and Magnetic Materials, Vol. 321, No. 7, 906 – 908 (2009)
154. A. Dyrdał, V.K. Dugaev, J. Barnaś, B. Brodowska, W. Dobrowolski.
Anomalous Hall effect in IV-VI semiconductors.
Acta Physica Polonica A, Vol. 115, No. 1, 287 – 289 (2009).
155. A. Dyrdał, V.K. Dugaev, J. Barnaś.
Spin Hall effect in IV-VI semiconductors.
Europhysics Letters, Vol. 85, No. 6, 67004 (2009).
156. N. Sedlmayr, V.K. Dugaev, J. Berakdar.
Current-induced interactions of a multiple domain walls in magnetic quantum wires.
Physical Review B, Vol. 79, No. 17, 174422 (2009).
157. V.I. Litvinov, V.K. Dugaev.
Room-temperature ferromagnetism in dielectric GaN(Gd).
Applied Physics Letters, Vol. 94, No. 21, 212506 (2009).
158. P.P. Horley, V.R. Vieira, P.D. Sacramento, V.K. Dugaev.
Application of the stereographic projection to studies of magnetization dynamics described by the Landau-Lifshitz-Gilbert equation.
Journal of Physics A: Mathematical and General, Vol. 42, No. 31, 315211 (2009).
159. P.M. Gorley, O.M. Mysliuk, V.K. Dugaev, P.P. Horley, J. Barnaś.
The influence of electric field on the optical polarization of electrons in a diluted magnetic semiconductor.
Acta Physica Polonica A, Vol. 116, No. 5, 909 – 910 (2009).
160. V.K. Dugaev, E.Ya. Sherman, V.K. Dugaev, J. Barnaś.
Spin relaxation and combined resonance in two-dimensional electron systems with spin-orbit disorder.
Physical Review B (Rapid Communication), Vol. 80, No. 8, 081301(R) (2009).
161. A. Dyrdał, V.K. Dugaev, J. Barnaś.
Spin Hall effect in a system of Dirac fermions in the graphene lattice with intrinsic and Rashba spin-orbit interactions.
Physical Review B, Vol. 80, No. 15, 155444 (2009).

162. P. Horley, V. Vieira, P.N. Gorley, J.G. Hernandez, V.K. Dugaev, J. Barnas. Ultra-fast ballistic magnetization reversal triggered by a single magnetic field pulse. **Journal of Physics D: Applied Physics**, Vol. 42, No. 24, 245007 (2009).
163. P.D. Sacramento, V.K. Dugaev, V.R. Vieira, M. Araújo. Correlated magnetic impurities in a superconductor: electron density profiles and robustness of superconductivity. **Journal of Physics: Condensed Matter**, Vol. 22, No. 25, 025701 (2010).
164. R. Guerrero, F.G. Aliev, R. Villar, T. Santos, J. Moodera, V.K. Dugaev, J. Barnas. Conductance in Co—Al₂O₃—Si—Al₂O₃ permalloy with asymmetrically doped barrier. **Physical Review B**, Vol. 81, No. 1, 014404 (2010).
165. P. Horley, V.R. Vieira, P. Gorley, V.K. Dugaev, J. Barnas. Synchronization of microspins arranged into a linear chain. **Journal of Magnetism and Magnetic Materials**, Vol. 322, 1434 – 1437 (2010).
166. N. Sedlmayr, J. Berakdar, V.K. Dugaev, M.A.N. Araújo, J. Barnas. Spin and charge transport through non-collinear magnetic nanowires. **Journal of Magnetism and Magnetic Materials**, Vol. 322, 1419 – 1421 (2010).
167. P. Horley, V.R. Vieira, P. Gorley, V.K. Dugaev, J. Berakdar, J. Barnas. Magnetization reversal by a single pulse of magnetic field or spin-polarized current. **Journal of Magnetism and Magnetic Materials**, Vol. 322, 1373 – 1376 (2010).
168. M. Inglot, V.K. Dugaev. Induced magnetic moment in graphene with a non-magnetic impurity. **Journal of Physics: Conference Series**, Vol. 213, 012032 (2010).
169. E.Ya. Sherman, J.G. Muga, V.K. Dugaev, A. Ruschhaupt. Strong electron spin-Hall effect by a coherent optical potential. **Semiconductor Science and Technology**, Vol. 25, No. 9, 095004 (2010).
170. N. Sedlmayr, V.K. Dugaev, J. Berakdar. Role of non-collinear magnetization: from ferromagnetic nano wires to rings. **Physica Status Solidi B**, Vol. 247, No. 10, 2603 – 2609 (2010).
171. D. Herranz, F.G. Aliev, C. Tiusan, M. Hehn, V.K. Dugaev, J. Barnas. Tunneling in double barrier junctions with "hot spots". **Physical Review Letters**, Vol. 105, No. 4, 047207 (2010).
172. M.M. Glazov, E.Ya. Sherman, V.K. Dugaev. Two-dimensional electron gas with spin-orbit coupling disorder. **Physica E**, Vol. 42, No. 9, 2157 – 2177 (2010) (*invited review*).
173. V.K. Dugaev, M. Inglot, E. Ya. Sherman, J. Barnas. Robust impurity-scattering spin Hall effect in two-dimensional electron gas. **Physical Review B (Rapid communications)**, Vol. 82, No. 12, 121310(R) (2010).
174. M. Inglot, V.K. Dugaev, Impurity states in graphene with intrinsic spin-orbit interaction. **Journal of Applied Physics**, Vol. 109, No. 12, 123709 (2011).
175. V.K. Dugaev, E.Ya. Sherman, J. Barnas, Spin dephasing and pumping in graphene due to random spin-orbit interaction. **Physical Review B**, Vol. 83, No. 8, 085306 (2011).
176. M. Taillefumier, V.K. Dugaev, B. Canals, C. Lacroix, P. Bruno. Graphene in periodically alternating magnetic field: unusual quantization of the anomalous Hall effect. **Physical Review B**, Vol. 84, No. 8, 085427 (2011).
177. N. Sedlmayr, V.K. Dugaev, J. Berakdar. Spin-density waves and domain interactions in nanowires. **Physical Review B**, Vol. 83, No. 17, 174447 (2011).
178. V.I. Ivanov, V.K. Dugaev, E.Ya. Sherman, J. Barnas. Nonlinear spin current generation in (110)-oriented GaAs quantum well. **Physical Review B**, Vol. 84, No. 8, 085326 (2011).
179. N. Sedlmayr, V.K. Dugaev, M. Inglot, J. Berakdar. Indirect interaction of magnetic domain walls. **Physica Status Solidi Rapid Research Letters**, Vol. 5, No. 12, 450 – 452 (2011).
180. M. Inglot, V.K. Dugaev. Discrete and resonance states in graphene near the Dirac point. **Journal of Physics: Conference Series**, Vol. 303, No. 1, 012050 (2011).

181. P.D. Sacramento, M.A.N. Araújo, V.R. Vieira, V.K. Dugaev, J. Barnaś.
Anomalous Hall effect in superconductors with spin-orbit interaction.
Physical Review B, Vol. 85, No. 1, 014518 (2012).
182. P. Baláz, V.K. Dugaev, J. Barnaś.
Spin-transfer torque in a thick Neel domain wall.
Physical Review B, Vol. 85, No. 2, 024416 (2012).
183. V.K. Dugaev, M. Inglot, E.Ya. Sherman, J. Barnaś.
Spin Hall effect and spin current generation in two-dimensional systems with random Rashba spin-orbit coupling.
Journal of Magnetism and Magnetic Materials, Vol. 324, 3573 – 3575 (2012).
184. P. Baláz, L. Szymczyk, V.K. Dugaev, J. Barnaś.
Current-induced spin accumulation and spin transfer torque in a Néel domain wall.
Acta Physica Polonica A, Vol. 121, No. 5-6, 1210 – 1212 (2012).
185. J.P. Cascales, D. Herranz, F.G. Aliev, T. Szczepański, V.K. Dugaev, J. Barnaś, A. Duluard, M. Hehn, C. Tiusan.
Controlling shot noise in double-barrier magnetic tunnel junctions.
Physical Review Letters, Vol. 109, No. 6, 066601 (2012).
186. V.K. Dugaev, M.I. Katsnelson.
Graphene in periodic deformation fields: dielectric screening and plasmons.
Physical Review B, Vol. 86, No. 11, 115405 (2012).
187. V.K. Dugaev, M. Inglot, E.Ya. Sherman, J. Barnaś, J. Berakdar.
Nonlinear anomalous Hall effect and negative magnetoresistance in a system with random Rashba field.
Physical Review Letters, Vol. 109, 206601 (2012).
188. A. Dyrdał, J. Barnaś, V.I. Ivanov, V.K. Dugaev.
Spin Hall effect in a two-dimensional electron gas with strong Rashba spin-orbit interaction: semiclassical Keldysh approach.
Acta Physica Polonica A, Vol. 122, No. 6, 1059-1061 (2012).
189. E.Ya. Sherman, V.K. Dugaev, M.M. Glazov, J. Barna.
Magnetoresistance of two-dimensional electrons with spin-orbit coupling disorder.
Journal of Physics: Conference Series, Vol. 393, 012008 (2012).
190. J.P. Cascales, L. Martin, A. Duluard, M. Hehn, C. Tiusan, T. Szczepanski, V.K. Dugaev, J. Barnaś, F.G. Aliev.
Shot noise in double barrier epitaxial magnetic tunnel junctions.
IEEE Transactions on Magnetism, Vol. 49, No. 7, 4347-4350 (2013).
191. A. Dyrdał, M. Inglot, V.K. Dugaev, J. Barnaś.
Thermally induced spin polarization of a two-dimensional electron gas.
Physical Review B, Vol. 87, No. 24, 245309 (2013).
192. T. Szczepański, V.K. Dugaev, J. Barnaś, J.P. Cascales, F.G. Aliev.
Shot noise in magnetic double-barrier tunnel junctions.
Physical Review B, Vol. 87, No. 15, 155406 (2013).
193. L. Chotorlishvili, D. Sander, A. Sukhov, V.K. Dugaev, V.R. Vieira, A. Komnik, J. Berakdar.
Entanglement between nitrogen vacancy spins in diamond controlled by a nanomechanical resonator.
Physical Review B, Vol. 88, No. 8, 085201 (2013).
194. L. Chotorlishvili, Z. Toklikishvili, A. Sukhov, P. P. Horley, V.K. Dugaev, V.R. Vieira, S. Trimper, J. Berakdar.
Thermally activated in-plane magnetization rotation induced by spin torque.
Journal of Applied Physics, Vol. 114, No. 12, 123906 (2013).
195. L. Chotorlishvili, Z. Toklikishvili, V.K. Dugaev, J. Barnaś, S. Trimper, J. Berakdar.
Fokker-Planck approach to the theory of magnon-driven spin Seebeck effect.
Physical Review B, Vol. 88, No. 14, 144429 (2013).
196. V.K. Dugaev, M.I. Katsnelson.
Edge scattering of electron in graphene: Boltzmann equation approach to the transport in graphene nanoribbons and nanodisks.
Physical Review B, Vol. 88, No. 23, 235432 (2013).
197. N. Sedlmayr, V.K. Dugaev, J. Berakdar.
Dynamics of the polarization of a pinned domain wall in a magnetic nanowire.
Physica Status Solidi B, Vol. 251, No.1, 235-238 (2014).
198. L. Chotorlishvili, A. Ernst, V.K. Dugaev, A. Komnik, M.G. Vergniory, E.V. Chulkov, J. Berakdar.
Magnetic fluctuations in topological insulators with ordered magnetic adatoms: Cr on Bi₂Se₃ from first principles.
Physical Review B, Vol. 89, No. 7, 075103 (2014).

199. A. Dyrdał, J. Barnaś, V.K. Dugaev.
Current-induced spin polarization in graphene due to Rashba spin-orbit interaction.
Physical Review B, Vol. 89, No. 7, 075422 (2014).
200. M. Inglot, V.K. Dugaev, E.Ya. Sherman, J. Barnaś.
Optical spin injection in graphene with Rashba spin-orbit interaction.
Physical Review B, Vol. 89, No. 15, 155411 (2014).
201. V.K. Dugaev, M.I. Katsnelson.
Spin relaxation related to the edge scattering in graphene.
Physical Review B, Vol. 90, No. 3, 035408 (2014)
202. J.P. Cascales, I. Martinez, F.G. Aliev, J.Y. Hong, M.T. Lin, T. Szczepański, V.K. Dugaev, J. Barnaś.
202 Superpoissonian shot noise in organic magnetic tunnel junctions.
Applied Review Letters, Vol. 105, 233302 (2014).
203. S. Wolski, T. Szczepański, V.K. Dugaev, J. Barnaś, B. Landgraf, T. Slobodskyy, W. Hansen.
Spin and charge transport in double-junction Fe/MgO/GaAs heterostructures.
Journal of Applied Physics, Vol. 117, 043908 (2015).
204. M. Inglot, A. Dyrdał, V.K. Dugaev, J. Barnaś.
Thermoelectric effect enhanced by resonant states in graphene.
Physical Review B, Vol. 91, 115410 (2015).
205. S. Wolski, C. Jasiukiewicz, V.K. Dugaev, J. Barnaś, T. Slobodskyy, W. Hansen.
Charge and spin transport in a metal-semiconductor heterostructure with double Schottky barriers.
Acta Physica Polonica A, Vol. 127, 472-474 (2015).
206. M. Inglot, V.K. Dugaev, E.Ya. Sherman, J. Barnaś.
Enhanced photovoltaic effect in graphene due to Rashba spin-orbit coupling.
Physical Review B, Vol. 91, 195428 (2015).

Abstracts of international conferences

1. V.K. Dugaev, V.I. Litvinov, K.D. Tovstyuk
Possible mechanism of ferromagnetic ordering in systems with electron-hole coupling.
International Conference on Magnetism "ICM 79", München, September 1979.
2. V.I. Litvinov, V.K. Dugaev.
Complex order parameter at the excitonic phase transition: the new mechanism of ferromagnetism.
16th International Conference on Low Temperature Physics "LT-16", Los Angeles, USA, August 19 – 25, 1981.
3. V.K. Dugaev, Tovstyuk K.D.
Magnetic ordering and spin-glass state of the Ising model with random field and random exchange interaction.
International Conference on Magnetism "ICM 82", Kyoto, Japan, 6 – 10 September 1982.
4. V.K. Dugaev.
Magnetic impurity interaction in semimagnetic semiconductors with a band-level hybridization.
8th General Conference of Condensed Matter Division, Budapest, Hungary, April 6 – 9, 1988.
5. V.K. Dugaev, V.I. Litvinov
Magnetic ion interaction and ordering in band-inverted heterojunctions.
5th International Conference on the Physics of Electro-Optic Microstructures and Microdevices,
Heraklion, Greece, 30 July – 3 August 1990.
6. V.K. Dugaev, V.I. Litvinov, O.A. Mironov, P.P. Petrov, O.N. Nashchekina, M. Oszwałdowski
Energy spectrum in quantum dots of lead and tin chalcogenides semiconducting compounds.
XXI International School-Conference on Physics of Semiconducting Compounds "Jaszowiec 92",
Ustroń-Jaszowiec, Poland, May 25 – 30, 1992.
7. V.K. Dugaev, V.I. Litvinov, P.P. Petrov, O.A. Mironov, M. Oszwałdowski
Energy spectrum in quantum dots of IV-VI narrow-gap semiconductors.
7th International Conference on Narrow-Gap Semiconductors,
Southampton, UK, July 19 – 23, 1992.
8. V.K. Dugaev.
Fractional quantum Hall effect in disordered systems with gauge fields.
Ukrainian-French Symposium "Condensed Matter: Science and Industry",
Lviv, Ukraine, 22 – 28 February 1993.

9. V.K. Dugaev, Litvinov V.I., Oszwałdowski M.
Indirect exchange in band-inverted heterojunctions of IV-VI semimagnetic compounds.
XXII International School-Conference on Physics of Semiconducting Compounds "*Jaszowiec 93*",
Ustroń-Jaszowiec, Poland, 22 – 28 May 1993.
10. V.K. Dugaev, Litvinov V.I., Petrov P.P.
Energy spectrum particularities and transport properties of IV-VI semiconductor quantum wells.
XXIII International School-Conference on Physics of Semiconductor Compounds "*Jaszowiec 94*",
Ustroń-Jaszowiec, Poland, 30 May – 3 June 1994.
11. V.I. Litvinov, V.K. Dugaev, M. Oszwałdowski.
Deformation potentials in IV-VI quantum wells.
XXIII International School-Conference on Physics of Semiconductor Compounds "*Jaszowiec 94*",
Ustroń-Jaszowiec, Poland, 30 May – 3 June 1994.
12. V.K. Dugaev, V.I. Litvinov, P.P. Petrov.
Magnetic interactions in quantum wells on IV-VI semiconductors.
1st International Conference on Materials Science of Chalcogenides and Semiconductors with a Structure of Diamond,
Chernivtsi, Ukraine, October 1994.
13. V.I. Litvinov, V.L. Volkov, M. Oszwałdowski, V.K. Dugaev.
Deformation potentials in narrow-gap quantum wells.
1st International School-Conference on Physical Problems in Materials Science of Semiconductors,
Chernivtsi, Ukraine, October 1995.
14. V.K. Dugaev, V.I. Litvinov, P.P. Petrov.
Transport properties of metallic structures with nonideal interfaces.
1st International School-Conference on Physical Problems in Materials Science of Semiconductors,
Chernivtsi, Ukraine, October 1995.
15. V.K. Dugaev, V.I. Litvinov, P.P. Petrov.
Magnetic interactions in IV-VI semiconductor quantum wells.
European Workshop on II-VI Semiconductors. International Workshop on Semimagnetic Semiconductors,
Linz, Austria, September 1994.
16. V.K. Dugaev.
Mixed valence states in IV-VI semiconductors with rare-earth impurities.
2nd International School-Conference on Physical Problems in Materials Science of Semiconductors,
Chernivtsi, Ukraine, September 8 – 10, 1997.
17. L. Kovalczyk, J. Sadowski, R.R. Gałazka, A. Stachow-Wójcik, A.Yu. Sipatov, V.V. Volobuev, V.A. Smirnov,
V.K. Dugaev.
A photoluminescence study in PbS-EuS superlattices.
XXVII International School-Conference on Physics of Semiconducting Compounds "*Jaszowiec 98*",
Ustroń-Jaszowiec, Poland, 7 – 12 June 1998.
18. V.K. Dugaev, V.I. Litvinov, W. Dobrowolski, T. Story.
Interaction between magnetic layers in structures with narrow-gap IV-VI semiconductors.
European Conference "*Physics of Magnetism 99*",
Poznan, Poland, 21 – 25 June 1999.
19. M. Oszwałdowski, T. Berus, V.K. Dugaev.
Phase relaxation time in polycrystalline InSb films heavily doped with Pb.
International Conference on Disorder and Interaction in Transport Phenomena '*Localisation 99*',
Hamburg, Germany, July 29 – August 3, 1999.
20. V.F. Mitin, J. McFarland, G. Ihas, V.K. Dugaev.
Ge film thermometers at ultralow temperatures in high magnetic fields.
22nd International Conference on Low Temperature Physics "*LT-22*".
Helsinki, Finland, 4 – 11 August 1999.
21. I. Stolpe, N. Puhmann, O. Portugall, M. von Ortenberg, W. Dobrowolski, A.Yu. Sipatov, V.K. Dugaev.
High field magnetospectroscopy of EuS/PbS multi-quantum wells.
9th International Conference on Narrow Gap Semiconductors,
Berlin, Germany, September 26 – October 1, 1999.
22. I. Kuryliszyn, M. Arcyszewska, M.M. Abdel Aziz, W. Dobrowolski, E.I. Slynko, V.E. Slynko, V.K. Dugaev.
In quest of Mn-Eu interaction in IV-VI mixed crystals.
9th International Conference on Narrow Gap Semiconductors,
Berlin, Germany, September 26 – October 1, 1999.
23. V.K. Dugaev
Diffusion of intercalated ions in layered semiconductors

- 3rd International School-Conference on Physical Problems in Materials Science of Semiconductors, Chernivtsi, Ukraine, 7 – 11 September 1999 (*invited talk*).
24. V.K. Dugaev, M. Oszwaldowski
Quantum corrections to conductivity due to electron-electron interaction in semiconductors with weak screening.
3rd International School-Conference on Physical Problems in Materials Science of Semiconductors, Chernivtsi, Ukraine, 7 – 11 September 1999.
 25. I. Kuryliszyn, M. Arcyszewska, W. Dobrowolski, V. Domukhowski, E.I. Slynko, V.E. Slynko, V.K. Dugaev.
Mn-Eu interaction in IV-VI mixed crystals.
XXIX International School-Conference on Physics of Semiconducting Compounds "*Jaszowiec 2000*", Jaszowiec, Poland, June 2 – 9, 2000.
 26. V.K. Dugaev, V.I. Litvinov, W. Dobrowolski.
Interlayer magnetic coupling in IV-VI semiconductor quantum well.
Symposium on Spin Electronics "*SSE 2000*", Halle, Germany, July 3 – 6, 2000.
 27. V.K. Dugaev, J. Barnaś.
Localization and interaction effects in magnetic layered structures.
Symposium on Spin Electronics "*SSE 2000*", Halle, Germany, July 3 – 6, 2000.
 28. V.K. Dugaev, J. Barnaś.
Electron-electron interaction effects in spin quantum wells.
International Conference on the Physics and Application of Spin-Related Phenomena in Semiconductors "*PASPS 2000*", Sendai, Japan, 13 – 15 September 2000.
 29. V.K. Dugaev, J. Barnaś. Quantum corrections to conductivity in magnetic quantum wells.
6th International School of Theoretical Physics "*SSPCM 2000*", Myczkowce, Poland, 31 August – 6 September 2000 (*invited lecture*).
 30. V.K. Dugaev, P. Bruno, J. Barnaś.
Localization corrections in ferromagnets with spin-orbit interactions.
65. Physikertagung und Frühjahrstagung des Arbeitskreises Festkörperphysik bei der Deutsche Physikalische Gesellschaft, Hamburg, Deutschland, 26 – 30 März 2001.
 31. V.K. Dugaev, P. Bruno, J. Barnaś.
Localization corrections to charge and spin conductivity in ferromagnetic layered structures.
4th International Symposium on Metallic Multilayers "*MML 2001*", Aachen, Germany, June 24 – 29, 2001.
 32. V.K. Dugaev, A. Crépieux, P. Bruno.
Weak localization corrections to the anomalous Hall effect.
4th International Symposium on Metallic Multilayers "*MML 2001*", Aachen, Germany, June 24 – 29, 2001.
 33. V.K. Dugaev, J. Barnaś.
Large enhancement of the interaction coupling in magnetic layered structures.
14th International Conference on the Electronic Properties of Two-Dimensional Systems "*EP2DS-14*", Prague, Czech Republic, July 30 – August 3, 2001.
 34. V.K. Dugaev, P. Bruno, J. Barnaś.
Localization effects in magnetic structures with spin-orbit interaction.
1st Joint European Magnetic Symposia, Grenoble, France, August 28 – September 1, 2001.
 35. A. Crépieux, V.K. Dugaev, P. Bruno.
Anomalous Hall effect and weak localization corrections in a ferromagnet.
1st Joint European Magnetic Symposia, Grenoble, France, August 28 – September 1, 2001.
 36. V.K. Dugaev, Yu. Vygranenko, M. Vieira, V.I. Litvinov, J. Barnaś.
Magnetically controlled photovoltaic diode structure.
2002 Materials Research Society Spring Meeting, San Francisco, USA, April 1 – 5, 2002.
 37. V.F. Mitin, V.V. Kholevchuk, V.K. Dugaev, M. Vieira.
Low temperature properties of compensated Ge films used for cryogenic thermometers.
2002 Materials Research Society Spring Meeting, San Francisco, USA, April 1 – 5, 2002.

38. V.K. Dugaev, A.H. Slobodsky, J. Barnaś, V.I. Litvinov, W. Dobrowolski, M. Vieira.
Ferromagnetism in diluted magnetic semiconductors: effect of disorder.
19th General Conference of the Condensed Matter Division of the European Physical Society,
Brighton, UK, April 7 – 11, 2002.
39. V.K. Dugaev, J. Barnaś, A. Lusakowski, L.A. Turski.
Accumulation of spin and charge at domain walls in ferromagnets.
19th General Conference of the Condensed Matter Division of the European Physical Society,
Brighton, UK, April 7 – 11, 2002.
40. V.K. Dugaev, P. Bruno, J. Barnaś.
Spin conductivity and spin diffusion in magnetic systems.
Gordon Research Conference on Magnetic Nanostructures,
Il Ciocco, Italy, May 12 – 17, 2002.
41. V.K. Dugaev, V.I. Litvinov, J. Barnaś, A.H. Slobodsky, W. Dobrowolski, M. Vieira.
Ferromagnetic phase transition in diluted magnetic semiconductors: role of disorder and magnetic interactions at low carrier density.
XXXI International School on the Physics of Semiconducting Compounds "Jaszowiec 2002",
Ustroń-Jaszowiec, June 7 – 14, 2002.
42. V.K. Dugaev, G.G. Ihas, C. McKenney, V.F. Mitin, M. Vieira.
Characterization and modeling of Ge film thermometers for low temperature measurements.
1st IEEE International Conference on Sensors "IEEE Sensors 2002",
Orlando, Florida, USA, June 12 – 14, 2002.
43. V.K. Dugaev, Yu. Vygranenko, M. Vieira, V.I. Litvinov, J. Barnaś.
Modeling of magnetically controlled Si-based optoelectronic devices.
2002 European Materials Research Society Spring Meeting,
Strasbourg, France, June 18 – 21, 2002.
44. J. Barnaś, V.K. Dugaev, J. Martinek, W. Rudziński, R. Świrkowicz, I. Weymann, M. Wilczyński.
Spin related phenomena in transport properties of magnetic mesoscopic systems.
European Conference "Physics of Magnetism 2002",
Poznań, Poland, July 1 – 5, 2002 (*invited talk*).
45. V.K. Dugaev, V.I. Litvinov, J. Barnaś, A.H. Slobodsky, W. Dobrowolski, M. Vieira.
Ferromagnetism in diluted magnetic semiconductors at low carrier density.
European Conference "Physics of Magnetism 2002",
Poznań, Poland, July 1 – 5, 2002.
46. V.K. Dugaev, J. Barnaś, A. Lusakowski, L.A. Turski
Accumulation of spin and charge and transport properties of ferromagnets with domain walls.
European Conference "Physics of Magnetism 2002",
Poznań, Poland, July 1 – 5, 2002.
47. V.K. Dugaev, V.I. Litvinov, J. Barnaś, A.H. Slobodsky, W. Dobrowolski, M. Vieira.
New mechanism of magnetic interactions and ferromagnetism of diluted magnetic semiconductors.
2nd International Conference on Physics and Application of Spin Related Phenomena in Semiconductors "PASPS 2002",
Würzburg, Germany, July 23 – 26, 2002.
48. V.K. Dugaev, J. Barnaś, A. Lusakowski, L.A. Turski
Electrons in magnetic structures with domain walls: charge and spin accumulation and the transport properties.
2nd International Conference on Physics and Application of Spin Related Phenomena in Semiconductors "PASPS 2002",
Würzburg, Germany, July 23 – 26, 2002.
49. J. Barnaś, S. Krompiewski, H.W. Kunert, J. Martinek, V.K. Dugaev.
Spin-valve effect in layered structures of ferromagnetic/nonferromagnetic semiconductors.
2nd International Conference on Physics and Application of Spin related Phenomena in Semiconductors "PASPS 2002",
Würzburg, Germany, July 23 – 26, 2002.
50. K. Racka, I. Kuryliszyn, M. Arciszewska, W. Dobrowolski, J.-M. Broto, M. Goiran, O. Portugall, H. Rakoto, B. Raquet,
V.K. Dugaev, E.I. Slynko, V.E. Slynko.
Anomalous Hall effect in $\text{Sn}_{1-x-y}\text{Mn}_x\text{Eu}_y\text{Te}$ mixed crystals.
2nd International Conference on Physics and Application of Spin related Phenomena in Semiconductors "PASPS 2002",
Würzburg, Germany, July 23 – 26, 2002.
51. V.K. Dugaev, V.I. Litvinov, J. Barnaś, A.H. Slobodsky, W. Dobrowolski, M. Vieira.
Ferromagnetism in diluted magnetic semiconductors.
26th International Conference on the Physics of Semiconductors,
Edinburgh, UK, July 29 – August 2, 2002.

52. V.K. Dugaev, J. Barnaś.
Static, dynamic, an kinetic properties of domain walls in ferromagnets.
7th International School of Theoretical Physics "SSPCM 2002",
Myczkowce, Poland, September 11 – 18, 2002 (*invited lecture*).
53. N.S. Boltovets, V.K. Dugaev, P.C. McDonald, V.F. Mitin, F. Pavese, P.V. Sorokin, E.F. Venger.
New generation of resistance thermometers based on Ge films on GaAs substrates.
8th Symposium on Temperature: its Measurement and Control in Science and Industry,
Chicago, USA, October 21 – 24, 2002.
54. V.K. Dugaev, M. Vieira, V.I. Litvinov, J. Barnaś.
Theory of ferromagnetic transition in magnetically doped semiconductors.
2002 Materials Research Society Fall Meeting,
Boston, USA, December 2 – 6, 2002.
55. V.K. Dugaev, J. Barnaś, J. Berakdar.
Electrons in ferromagnets with domain walls.
International Workshop on Strongly Correlated Electrons in New Materials "SCENM02",
Loughborough, UK, December 14 – 17, 2002 (*invited talk*).
56. V.K. Dugaev, J. Barnaś, M. Vieira.
Electric current control of magnetization in magnetic nanostructures.
2003 Materials Research Society Spring Meeting,
San Francisco, USA, April 21 – 25, 2003.
57. G.G. Ihas, C.M. McKenney, V.F. Mitin, V.K. Dugaev.
Characterization of Ge thin film thermometers.
American Physical Society March Meeting 2003,
Austin, Texas, USA, March 3 – 7, 2003.
58. V.K. Dugaev, J. Berakdar, J. Barnaś.
Scattering of electrons from domain walls in ferromagnets.
Frühjahrstagung des Arbeitskreises Festkörperphysik bei der Deutsche Physikalische Gesellschaft,
Dresden, Deutschland, 24 – 28 März, 2003.
59. V.K. Dugaev, P. Bruno, M. Taillefumier.
Topological Hall effect induced by Berry phase.
Laboratoire Européen Associé (LEA) Meeting,
Grenoble, France, May 15 – 16, 2003 (*invited talk*).
60. J. Barnaś, R. Świrkowicz, J. Martinek, M. Wilczyński, V.K. Dugaev.
Spin polarized transport through quantum dots: Coulomb blockade and Kondo effect.
XXXII International School on the Physics of Semiconducting Compounds "Jaszowiec 2003",
Ustroń-Jaszowiec, Poland, May 30 – June 6, 2003 (*invited lecture*).
61. V.K. Dugaev, V.I. Ivanov, J. Barnaś, P.M. Gorley.
Spin relaxation time in symmetric quantum wells of III-V semiconductors.
XXXII International School on the Physics of Semiconducting Compounds "Jaszowiec 2003",
Ustroń-Jaszowiec, Poland, May 30 – June 6, 2003.
62. V.F. Mitin, V.K. Dugaev, G.G. Ihas, C. McKenney, M. Vieira.
Giant magnetic field effect on Germanium film electrical conductance and its use for weak magnetic field detection at ultralow temperatures.
2003 European Materials Research Society Spring Meeting,
Strasbourg, France, June 10 – 13, 2003.
63. V.K. Dugaev, J. Barnaś, J. Berakdar.
Magnetic switching by electric current in magnetic nanostructures.
International Conference on Magnetism "ICM 2003",
Rome, Italy, July 27 – August 1, 2003.
64. R. Świrkowicz, J. Barnaś, M. Wilczyński, W. Rudziński, V.K. Dugaev.
Spin diode devices based on quantum dots.
International Conference on Magnetism "ICM 2003",
Rome, Italy, July 27 – August 1, 2003.
65. V.K. Dugaev, J. Barnaś, J. Berakdar.
Spin-dependent scattering from magnetic nanoconstrictions in a magnetic quantum wire.
XXIII International Conference on Photonic, Electronic, and Atomic Collisions "ICPEAC 2003",
Stockholm, Sweden, July 23 – 29, 2003.

66. V.K.Dugaev, J. Berakdar, J. Barnaś.
Magnetoresistance of a sharp domain wall in magnetic nanojunctions.
International Conference and School on Semiconductor Spintronics and Information Technology "Spintech II",
Brugge, Belgium, August 4 – 8, 2003.
67. J. Barnaś, J. Martinek, R. Świrkowicz, M. Wilczyński, V.K. Dugaev.
Spin polarized transport through quantum dots: Coulomb blockade and Kondo effect.
International Conference and School on Semiconductor Spintronics and Information Technology "Spintech II",
Brugge, Belgium, August 4 – 8, 2003.
68. V.K.Dugaev, M. Taillefumier, P. Bruno.
Topological Hall effect in magnetically ordered systems with defects.
International Conference and School on Semiconductor Spintronics and Information Technology "Spintech II",
Brugge, Belgium, August 4 – 8, 2003.
69. V.K.Dugaev, M. Taillefumier, P. Bruno.
Topological Hall effect induced by Berry phase in two-dimensional magnetic structures.
Euroconference on Spin and Charge Transport in Nanostructures,
Braga, Portugal, September 1 – 5, 2003.
70. V.F. Mitin, G.G. Ihas, C. McKenney, V.K. Dugaev, M. Vieira.
Resistance thermometers based on Ge films on GaAs substrates: low-temperature conduction and magnetoresistance mechanism.
17th European Conference on Solid-State Transducers "Euroensors XVII",
Guimarães, Portugal, September 21 – 24, 2003.
71. V.K. Dugaev, V.F. Mitin.
Modeling of characteristics for low-temperature Ge-film sensors.
2nd International Seminar and Workshop on Low Temperature Thermometry,
Wrocław, Poland, October 6 – 7, 2003.
72. M. Taillefumier, V.K. Dugaev, P. Bruno.
Computation of the Berry phase in two-dimensional periodic magnetic structures.
RTN Annual Workshop "Computational Magnetoelectronics",
Halle, Germany, October 9 – 11, 2003.
73. V.K. Dugaev, J. Berakdar, J. Barnaś.
Magnetoresistance of magnetic nanojunctions with domain walls.
RTN Annual Workshop "Computational Magnetoelectronics",
Halle, Germany, October 9 – 11, 2003.
74. V.K. Dugaev, J. Barnaś, J. Berakdar.
Electron-electron interaction in the magnetic nanowire with domain wall.
International Conference on Solid State Quantum Information Processing,
Amsterdam, Netherlands, December 15 – 18, 2003.
75. V.K. Dugaev, M. Taillefumier, P. Bruno.
Spin and Hall currents induced by Berry phase.
International Conference on Solid State Quantum Information Processing,
Amsterdam, Netherlands, December 15 – 18, 2003.
76. V.K. Dugaev, J. Barnaś, J. Berakdar.
Spin-dependent scattering from atomic junctions in a nanowire.
International Workshop on Atomic Physics,
Dresden, Germany, December 2 – 6, 2003 (*invited talk*).
77. M. Taillefumier, V.K. Dugaev, P. Bruno.
Anomalous Hall effect and Berry phase in ferromagnets.
Frühjahrstagung des Arbeitskreises Festkörperphysik bei der Deutsche Physikalische Gesellschaft,
Regensburg, Deutschland, 8 – 12 März, 2004.
78. V.K. Dugaev, J. Berakdar, J. Barnaś, W. Dobrowolski, V.F. Mitin.
Magnetoresistance due to domain walls in semiconducting magnetic nanostructures.
2004 European Materials Research Society Spring Meeting,
Strasbourg, France, May 24 – 28, 2004.
79. M. Taillefumier, V.K. Dugaev, P. Bruno.
Effect Hall topologique et phase de Berry dans les structures nanomagnétiques.
9ème Colloque Louis Néel "Couches Minces et Nanostructures Magnétiques",
Autrans, France, 17 – 19 mars 2004.
80. M. Taillefumier, V.K. Dugaev, P. Bruno.
Anomalous Hall effect in ferromagnets.

- Conference on Complex Systems,
Grenoble, France, July 22 - 23, 2004.
81. V.K. Dugaev, M. Taillefumier, P. Bruno.
Topological Hall effect and Berry phase in magnetic nanostructures.
Joint European Magnetic Symposium "*JEMS 04*",
Dresden, Germany, September 5 - 10, 2004.
 82. M. Taillefumier, V.K. Dugaev, P. Bruno.
Electron energy spectrum and persistent currents in a two-dimensional periodic magnetic field.
Joint European Magnetic Symposium "*JEMS 04*",
Dresden, Germany, September 5 - 10, 2004.
 83. J. Barnaś, R. Świrkowicz, I. Weimann, W. Rudziński, M. Wilczyński, V.K. Dugaev.
Quantum dots attached to ferromagnetic leads: possibility of new spintronic devices.
Joint European Magnetic Symposium "*JEMS 04*",
Dresden, Germany, September 5 - 10, 2004.
 84. V.F. Mitin, P.C. McDonald, F. Pavese, N.S. Boltovets, V.V. Kholevchuk, I.Yu. Nemish, V.V. Basanets, V.K. Dugaev, P.V. Sorokin, E.F. Venger, E.V. Mitin.
New temperature and magnetic field sensors for cryogenic applications developed under a European Project.
20th International Cryogenic Engineering Conference and Exhibition "*ICEC20*",
Beijing, China, May 11 - 14, 2004.
 85. P. Bruno, V.K. Dugaev, M. Taillefumier.
Topological Hall effect and Berry phase in magnetic nanostructures.
International Conference on Nanospintronics Design and Realization "*ICNDR 2004*",
Kyoto, Japan, May 24 - 28, 2004 (*invited talk*).
 86. B. Brodowska, W. Dobrowolski, O. Portugall, M. Goiran, J.K. Furdyna, T. Woitowicz, G. Cywinski, V.K. Dugaev, B. Wilkowska.
Anomalous Hall effect in semimagnetic semiconductors.
XXXIII International School on Physics of Semiconducting Compounds "*Jaszowiec 2004*",
Ustroń-Jaszowiec, Poland, May 28 - June 4, 2004.
 87. V.K. Dugaev.
Spintronics in semiconductor based magnetic nanostructures (theory).
XI International Summer School Nicolás Cabrera "*Frontiers in Science and Technology: Magnetic Nanostructures*",
Madrid, Spain, September 13 - 17, 2004 (*invited lecture*).
 88. V.K. Dugaev, P. Bruno, M. Taillefumier.
Topological Hall effect in magnetic nanostructures.
XI International Summer School Nicolás Cabrera "*Frontiers in Science and Technology: Magnetic Nanostructures*",
Madrid, Spain, September 13 - 17, 2004.
 89. V.K. Dugaev, J. Berakdar, J. Barnaś, V.I. Ivanov, W. Dobrowolski, V.F. Mitin.
Conductance and giant magneto-resistance in magnetic tunneling nanostructures.
2nd Ukrainian Scientific Conference on Physics of Semiconductors,
Chernivtsi, Ukraine, September 20 - 24, 2004.
 90. V.L. Volkov, V.K. Dugaev.
Theory and modeling of the crystal growth of semiconductors under microgravity conditions.
2nd Ukrainian Scientific Conference on Physics of Semiconductors,
Chernivtsi, Ukraine, September 20 - 24, 2004.
 91. P.N. Gorley, P.P. Horley, O.M. Pityk, V.K. Dugaev, W. Dobrowolski.
Influence of long-time relaxation of magnetic ions subsystem on spin orientation of conductivity electrons.
2nd Ukrainian Scientific Conference on Physics of Semiconductors,
Chernivtsi, Ukraine, September 20 - 24, 2004.
 92. V.K. Dugaev, V.F. Mitin, J. McFarland, G.G. Ihas.
Negative magnetoresistance in Ge films at ultralow temperatures.
International Workshop on Sensors and Materials for Cryogenic Applications: Properties, Technology and Metrology,
Kiev, Ukraine, September 27 - 29, 2004 (*invited talk*).
 93. V.K. Dugaev, J. Barnaś, J. Berakdar, V.F. Mitin.
Magnetoresistance of semiconductor magnetic nanostructures.
International Workshop on Sensors and Materials for Cryogenic Applications: Properties, Technology and Metrology,
Kiev, Ukraine, September 27 - 29, 2004.
 94. M. Taillefumier, V.K. Dugaev, P. Bruno.
Electron energy spectrum in two-dimensional periodic magnetic field.
Laboratoire Européen Associé (LEA) Meeting,
Halle, Germany, September 30 - October 1, 2004.

95. V.K. Dugaev, M. Taillefumier, P. Bruno, B. Canals, C. Lacroix.
Intrinsic mechanism of anomalous Hall effect.
Laboratoire Européen Associé (LEA) Meeting,
Halle, Germany, September 30 – October 1, 2004.
96. V.K. Dugaev, J. Barnaś, J. Berakdar.
Scattering from domain walls in a ferromagnetic quantum wire.
Laboratoire Européen Associé (LEA) Meeting,
Halle, Germany, September 30 – October 1, 2004.
97. M. Taillefumier, V.K. Dugaev, P. Bruno.
Topological Hall effect in ferromagnets.
Laboratoire Européen Associé (LEA) Meeting,
Halle, Germany, September 30 – October 1, 2004.
98. V.K. Dugaev, J. Berakdar, J. Barnaś, W. Dobrowolski, V.F. Mitin, M. Vieira.
Aspects of spin-dependent scattering in magnetic nanoconstrictions.
69. Frühjahrstagung der Deutsche Physikalische Gesellschaft "*Physik seit Einstein*",
Berlin, Deutschland, 4. – 9. März, 2005.
99. V.K. Dugaev, P. Bruno, M. Taillefumier.
Anomalous Hall effect in disordered magnetic nanostructures.
Workshop "*Interface Disorder in Nanosystems*",
Leiden, Netherlands, June 20 – 24, 2005 (*invited lecture*).
100. V.K. Dugaev, J. Berakdar, J. Barnaś, M. Vieira.
Resonant transmission through a double domain wall in magnetic nanowires.
2005 E-MRS meeting. Symposium B "*Spintronics*",
Strasbourg, France, May 31 – June 3, 2005.
101. J. Barnaś, A. Fert, M. Gmitra, I. Weymann, V.K. Dugaev.
Macroscopic description of spin transfer torque.
2005 E-MRS meeting. Symposium B "*Spintronics*",
Strasbourg, France, May 31 - June 3, 2005
102. V.K. Dugaev.
Theory of anomalous Hall effect in magnetic nanostructures.
2005 E-MRS Fall meeting, Symposium D "*Magnetoelectronics*",
Warsaw, Poland, September 5 – 9, 2005 (*invited talk*).
103. V.K. Dugaev, P. Bruno, M. Taillefumier, B. Canals, C. Lacroix.
Intrinsic mechanism of anomalous Hall effect in a two-dimensional magnetic system with impurities.
European Conference "*Physics of Magnetism 2005*",
Poznań, Poland, June 24 – 27, 2005.
104. M. Gmitra, J. Barnaś, A. Fert, I. Weymann, V.K. Dugaev.
Current induced switching due to spin-transfer in spin valves: macroscopic model.
European Conference "*Physics of Magnetism*",
Poznań, Poland, June 24 - 27, 2005
105. M. Araújo, V.K. Dugaev, J. Berakdar, J. Barnaś.
Tunneling of correlated electrons through a narrow domain wall in magnetic nanowires.
European Conference "*Physics of Magnetism 2005*",
Poznań, Poland, June 24 – 27, 2005.
106. V.R. Vieira, P.D. Sacramento, V.K. Dugaev, J. Barnaś.
Spin accumulation, spin currents, and torque, in the problem of motion of a sharp domain wall
in magnetic nanowires.
European Conference "*Physics of Magnetism 2005*",
Poznań, Poland, June 24 – 27, 2005.
107. V.F. Mitin, V.K. Dugaev, G.G. Ihas.
Conduction and magnetoresistance mechanisms in Ge-films used for low temperature resistance thermometers.
24th International Conference on Low Temperature Physics,
Orlando, Florida, USA, August 10 – 17, 2005.
108. V.K. Dugaev, P. Bruno, M. Taillefumier, B. Canals, C. Lacroix.
Anomalous Hall effect in a two-dimensional electron gas with spin-orbit interaction.
CECAM Workshop "*The anomalous Hall effect: Recent advances via the geometric-phase approach*",
Lyon, France, July 4 – 6, 2005 (*invited talk*).
109. L.I. Arhelyuk, V.I. Grivul, V.P. Makhniy, M.M. Slyotov, P.P. Horley, V.V. Gorley, V.K. Dugaev, J. Barnaś, M. Vieira,
W. Dobrowolski.

- Optoelectronic properties of tin-alloyed zinc telluride.
12th International Conference on II-VI Compounds,
Warsaw, Poland, September 12 – 16, 2005.
110. V.P. Makhniy, I.V. Tkachenko, P.M. Gorley, P.P. Horley, V.K. Dugaev, J. Barnaś, M. Vieira, W. Dobrowolski.
Peculiarities of defect formation processes in ZnSe crystals with isovalent Te impurities.
12th International Conference on II-VI Compounds,
Warsaw, Poland, September 12 – 16, 2005 [Poster].
 111. V.K. Dugaev, P. Bruno, M. Taillefumier, B. Canals, C. Lacroix.
Berry phase and anomalous Hall effect in magnetic systems.
Workshop "Complex behavior in electronic systems",
Braga, Portugal, September 15 – 16, 2005.
 112. V.K. Dugaev, V.R. Vieira, P.D. Sacramento, M.A.N. Araújo, J. Barnaś, J. Berakdar.
Spin torque and dynamics of domain walls in magnetic nanowires.
Workshop "Complex behavior in electronic systems",
Braga, Portugal, September 15 - 16, 2005.
 113. P. Bruno, V.K. Dugaev.
Berry phase and spin currents in magnetic nanostructures.
Meeting of the European Research Training Network
"Spin-dependent transport through nanostructures – Spintronics '05",
Mierzęcin, Poland, September 25 - 30, 2005 (*invited talk*).
 114. V.K. Dugaev, V.R. Vieira, P.D. Sacramento, M.A.N. Araújo, J. Barnas, J. Berakdar.
Spin torque and dynamics of domain walls in magnetic nanowires.
Meeting of the European Research Training Network
"Spin-dependent transport through nanostructures – Spintronics '05",
Mierzęcin, Poland, September 25 – 30, 2005.
 115. C. Lacroix, M. Taillefumier, B. Canals, V.K. Dugaev, P. Bruno.
Anomalous Hall effect due to spin chirality in pyrochlores and Kagome systems.
ESF Workshop "Highly Frustrated Magnetism", Agelonde, La Londe les Maures, France, November 6 – 9, 2005.
 116. J. Barnaś, M. Gmitra, V.K. Dugaev, A. Fert.
Current-induced spin-transfer torque and spin dynamics in spin-valve structures.
70. Frühjahrstagung der Deutsche Physikalische Gesellschaft, Dresden, Deutschland, 27. – 31. März, 2006 (*invited talk*).
 117. V.K. Dugaev, V.R. Vieira, P.D. Sacramento, J. Barnas, M.A.N. Araújo, J. Berakdar.
Magnetotransport properties and dynamics of domain wall in magnetic nanowires.
70. Frühjahrstagung der Deutsche Physikalische Gesellschaft, Dresden, Deutschland, 27. – 31. März, 2006.
 118. W. Dobrowolski, B. Brodowska, M. Arciszewska, I. Kuryliszyn-Kudelska, V. Domukhovski, M. Wojcik, V.E. Slynko, E.I. Slynko, V.K. Dugaev.
Magnetic properties of $\text{Ge}_{1-x-y}\text{Mn}_x\text{Eu}_y\text{Te}$ mixed crystals.
28th International Conference on the Physics of Semiconductors "ICPS-28", Vienna, Austria, July 24 – 28, 2006.
 119. P.M. Gorley, B. Cvikl, V.K. Dugaev, P.P. Horley, O.M. Myslyuk.
Spin relaxation processes for impurity photoconductivity.
5th International Conference on Inorganic Materials, Ljubljana, Slovenia, September 23 – 26, 2006.
 120. B. Brodowska, I. Kuryliszyn-Kudelska, M. Arciszewska, K. Dybko, V. Domukhovski, W. Dobrowolski, V.E. Slynko, E.I. Slynko, V.K. Dugaev.
Anomalous Hall effect in $\text{Ge}_{1-x-y}(\text{Eu}, \text{Yb})_x\text{Mn}_y\text{Te}$.
XXXV International School on the Physics of Semiconducting Compounds "Jaszowiec 2006", Ustroń-Jaszowiec, Poland, June 17 – 23, 2006.
 121. O.M. Myslyuk, P.M. Gorley, V.K. Dugaev, J. Barnas, P.P. Horley.
Spin polarization and relaxation of the electrons in semiconductor under impurity absorption of polarized light.
XXXV International School on the Physics of Semiconducting Compounds "Jaszowiec 2006", Ustroń-Jaszowiec, Poland, June 17 – 23, 2006.
 122. V.K. Dugaev, V.R. Vieira, P.D. Sacramento, J. Barnas, M.A.N. Araújo, J. Berakdar.
Current-induced spin torque on a domain wall in a magnetic nanowire.
17th International Conference on High Magnetic Fields in Semiconductor Physics "HMF 2006", Würzburg, Germany, July 30 – August 4, 2006.
 123. J. Berakdar, V.K. Dugaev, V.R. Vieira, P.D. Sacramento, J. Barnaś, M.A.N. Araújo.
Spin injection and spin transport in magnetic nanowires with non-collinear magnetic order.
International Conference on Nanoscience and Nanotechnology "ICN+T 2006", Basel, Switzerland, July 30 - August 4, 2006.

124. V.K. Dugaev, V.R. Vieira, J. Barnaś, P.P. Freitas,
Spin wave generation in magnetic nanojunctions.
Conference Trends in Nanotechnology "TNT 2006", Grenoble, France, September 4 – 8, 2006.
125. W. Dobrowolski, V.P. Makhniy, V.K. Dugaev, V.V. Gorley, M.M. Slyotov, S.V. Khusnutdinov.
Optical properties of zinc oxide heterolayers.
E-MRS Fall Meeting Symposium E: Dilute Magnetic Materials for Spintronic Applications,
Warsaw, Poland, September 5 – 9, 2006.
126. W. Dobrowolski, V.P. Makhniy, V.K. Dugaev, V.V. Melnyk, M.M. Slyotov, P.N. Gorley, P.P. Horley.
Peculiarities of properties of cadmium sulfide with quantum-scale surface structure.
E-MRS Fall Meeting Symposium E: Dilute Magnetic Materials for Spintronic Applications,
Warsaw, Poland, September 5 – 9, 2006.
127. P.M. Gorley, V.K. Dugaev, W.D. Dobrowolski, J. Barnaś, P.P. Gorley, O.M. Myslyuk.
Long-time relaxation and spin orientation of electrons under polarized light wave.
E-MRS Fall Meeting Symposium E: Dilute Magnetic Materials for Spintronic Applications, Warsaw, Poland, September 5 – 9, 2006.
128. W. Dobrowolski, B. Brodowska, M. Arciszewska, I. Kuryliszyn-Kudelska, V. Domukhovski, M. Wjcik, V.E. Slynko, E.I. Slynko, V.K. Dugaev.
Effect of Eu doping on magnetic properties of $\text{Ge}_{1-x}\text{Mn}_x\text{Te}$.
8th Annual Conference of the Yugoslav Materials Research Society "Yucomat 2006". Symposium C: Nanostructured Materials, September 4 – 6, 2006.
129. J. Barnaś, M. Gmitra, M. Misiorny, V.K. Dugaev, A. Fert.
Current induced magnetic switching in spin-valve systems.
XXX International Conference of Theoretical Physics "Electron Correlations in Nano- and Macrosystems", Ustroń, Poland, September 9 – 14, 2006 (*invited talk*).
130. V.K. Dugaev, V.R. Vieira, J. Barnaś, P.P. Freitas.
Mechanism of the current-induced spin transfer and the spin-wave generation in magnetic nanostructures.
International Workshop on Spin Transfer 2006, Nancy, France, October 2 – 4, 2006.
131. M. Gmitra, J. Barnaś, V.K. Dugaev, A. Fert.
Modelling of current-induced magnetic switching and magnetic dynamics in spin-valve structures.
International Workshop on Spin Transfer 2006, Nancy, France, October 2 – 4, 2006.
132. P.D. Sacramento, V.K. Dugaev, V.R. Vieira.
Spin torque induced on a domain wall by a quasiparticle current in a superconductor.
International Workshop on Spin Transfer 2006, Nancy, France, October 2 – 4, 2006.
133. J. Barnaś, M. Gmitra, M. Misiorny, V.K. Dugaev.
Current induced magnetic switching in spin-valve systems. 378th International Heraeus Seminar "Spin torque in magnetic nanostructures", Bad Honnef, Germany, October 22 – 26, 2006 (*invited talk*).
134. P.M. Gorley, V.K. Dugaev, J. Barnaś, M. Vieira, P.P. Horley, O.M. Mysliuk.
Spin polarization in a diluted magnetic semiconductor under impurity photoexcitation.
2007 MRS Spring Meeting, Symposium K: Novel Semiconductor Materials for Room-Temperature Ferromagnetism, San Francisco, USA, April 10 – 12, 2007.
135. S. Krompiewski, V.K. Dugaev, J. Barnaś.
Decoherence resonances in carbon nanotubes.
E-MRS Spring Meeting, Strasbourg, France, May 28 – June 1, 2007.
136. P.D. Sacramento, V.K. Dugaev, V.R. Vieira.
Quantum phase transitions in superconductors with magnetic domain walls.
International Conference "Coherence and Incoherence in Strongly Correlated Systems", Rome, Italy, July 3 – 8, 2007.
137. M.A.N. Araújo, V.K. Dugaev, V.R. Vieira, J. Berakdar.
Spin dependent scattering in magnetized Luttinger liquids.
17th International Conference on the Electronic Properties of Two-Dimensional Systems "EP2DS-17", Genova, Italy, July 15 – 20, 2007.
138. J. Barnaś, M. Gmitra, M. Misiorny, V.K. Dugaev, A. Fert.
Current-induced magnetic switching and dynamics in spin valves.
13th Czech and Slovak Conference on Magnetism, Kosice, Slovakia, July 9 – 12, 2007 (*invited talk*).
139. P.M. Gorley, V.K. Dugaev, W.D. Dobrowolski, J. Barnaś, P.P. Horley, O.M. Mysliuk.
Model of spin polarization processes in a dilute magnetic semiconductor with the photoexcitation of impurity levels.
XXXVI International School on the Physics of Semiconducting Compounds "Jaszowiec 2007", Ustroń-Jaszowiec, Poland, June 9 – 15, 2006.

140. V.K. Dugaev.
Anomalous Hall effect and Berry phase in two-dimensional magnetic structures.
9th International School on Theoretical Physics "Symmetry and Structural Properties of Condensed Matter (SSPCM 2007)", Myczkowce, Poland, September 5 – 12, 2007 (*invited talk*).
141. V.R. Vieira, N. Paunkovic, P.D. Sacramento, P. Nogueira, V.K. Dugaev.
Fidelity and the detection of some macroscopic phase transitions.
International Conference on Statistical Field Theory of Quantum Devices, Perugia, Italy, July 16 – 19, 2007.
142. J. Berakdar, V.K. Dugaev, V.R. Vieira, P.D. Sacramento, J. Barnaś, M.A.N. Araújo.
Current-driven dynamics of magnetoresistance of domain walls in magnetic nanowires.
International IEEE Conference on Magnetic Multilayers "MML 07", Perth, Australia, October 15 – 19, 2007 (*invited talk*).
143. R. Guerrero, R. Villar, T.S. Santos, J.S.S. Moodera, V.K. Dugaev, J. Barnaś, F.G. Aliev.
Conductance and low frequency noise in asymmetrically doped magnetic tunnel junctions $\text{Co|Al}_2\text{O}_3|\text{Si|Al}_2\text{O}_3|\text{Py}$.
Workshop "Quantum Transport, Magnetic Nanodevices and Spintronics" between "SpiCo-Spintra-Spincurrent", Naples, Italy, December 9 – 13, 2007.
144. V.K. Dugaev, V.I. Litvinov, P. Małyszczek, J. Barnaś.
Magnetic interaction in graphene.
Conference on Quantum Metrology, Poznań, Poland, May 5 – 7, 2008.
145. V.K. Dugaev, P. Bruno.
Anomalous and spin Hall effect.
SPINSWITCH Workshop "Spin Momentum Transfer", Krakow, Poland, September 5 – 7, 2008 (*invited talk*).
146. V.K. Dugaev, J. Barnaś, P. Bruno.
Spin dependent transport in magnetic nanostructures.
XXXVII International School on the Physics of Semiconducting Compounds "Jaszowiec 2008", Ustroń-Jaszowiec, Poland, June 7 – 13, 2008 (*invited talk*).
147. T. Szczepański, V.K. Dugaev, I. Tralle, J. Barnaś.
Resonant tunneling in a semiconductor nanostructure with polarized injector.
XXXVII International School on the Physics of Semiconducting Compounds "Jaszowiec 2008", Ustroń-Jaszowiec, Poland, June 7 – 13, 2008.
148. M. Inglot, V.K. Dugaev.
Electron energy spectrum of graphene with impurities and defects.
XXXVII International School on the Physics of Semiconducting Compounds "Jaszowiec 2008", Ustroń-Jaszowiec, Poland, June 7 – 13, 2008.
149. P.M. Gorley, V.K. Dugaev, M. Vieira, O.M. Mysliuk, P.P. Horley, W.D. Dobrowolski, J. Barnaś
Electro-optical polarization of electrons in diluted magnetic semiconductors.
XXXVII International School on the Physics of Semiconducting Compounds "Jaszowiec 2008", Ustroń-Jaszowiec, Poland, June 7 – 13, 2008.
150. V.K. Dugaev, M. Taillefumier, B. Canals, C. Lacroix, P. Bruno.
Two-dimensional electron gas in a periodic magnetic-field lattice.
European Conference "Physics of Magnetism 2008", Poznań, Poland, June 24 – 27, 2008.
151. A. Dyrdał, V.K. Dugaev, J. Barnaś, W. Dobrowolski.
Anomalous Hall effect in IV-VI semiconductors.
European Conference "Physics of Magnetism 2008", Poznań, Poland, June 24 – 27, 2008.
152. P. Horley, V.R. Vieira, P. Gorley, V.K. Dugaev, J. Berakdar, J. Barnaś.
Magnetization reversal by a single pulse of magnetic field or spin-polarized current.
Joint European Magnetic Symposia JEMS, Dublin, Ireland, September 14 – 19, 2008.
153. P. Horley, V.R. Vieira, P. Gorley, V.K. Dugaev, J. Barnaś.
Synchronization of microspins arranged into a linear chain.
Joint European Magnetic Symposia JEMS, Dublin, Ireland, September 14 – 19, 2008.
154. J. Berakdar, N. Sedlmayr, V.K. Dugaev, M.A.N. Araújo, J. Barnaś.
Spin and charge transport through non-collinear magnetic nanowires and atomic chains.
Joint European Magnetic Symposia JEMS, Dublin, Ireland, September 14 – 19, 2008.
155. M. Taillefumier, V.K. Dugaev, B. Canals, C. Lacroix, P. Bruno.
Two-dimensional electron gas in a periodic magnetic field.
Moscow International Symposium on Magnetism MISM, Moscow, Russia, June 20 – 25, 2008.
156. M. Inglot, V.K. Dugaev.
Magnetic correlations and the localized states near the Dirac point in graphene.
XXXII International Conference on Theoretical Physics "Coherence and Correlations in Nanosystems", Ustroń, Poland, September 5 – 10, 2008.

157. T. Szczepański, V.K. Dugaev, I. Tralle, J. Barnaś.
Spin accumulation and magnetic interactions in multilayer nanostructures.
XXXII International Conference on Theoretical Physics "Coherence and Correlations in Nanosystems", Ustroń, Poland, September 5 – 10, 2008.
158. V.R. Vieira, P.P. Horley, P.D. Sacramento, V.K. Dugaev.
Application of the stereographic projection to the simulation of microspin dynamics.
Workshop on Correlations and Coherence in Quantum Matter, Évora, Portugal, November 10 – 14, 2008
159. A. Dyrdał, V.K. Dugaev, J. Barnaś.
Anomalous and spin Hall effect in IV-VI magnetic semiconductors.
Heraeus Seminar on Spin Hall Effect, Bad Honnef, Germany, October 20 – 23, 2008.
160. J. Barnaś, V.K. Dugaev, P. Małyszczek, V.I. Litvinov.
Indirect exchange interaction in graphene.
DPG Frühjahrstagung Dresden, Deutschland, 22. – 27. März 2009.
161. J. Berakdar, N. Sedlmayr, V.K. Dugaev, V.R. Vieira, M.A.N. Araujo, J. Barnaś.
Spin and charge transport through non-collinear magnetic nanowires and atomic chains.
DPG Frühjahrstagung Dresden, Deutschland, 22. – 27. März 2009.
162. V.K. Dugaev, J. Barnaś.
Spin torque in magnetic multilayers: from diffusive to ballistic and then to quantum regimes.
20th International Colloquium on magnetic films and surfaces "ICMFS 2009", Berlin, Germany, July 20 – 24, 2009.
163. V.K. Dugaev, P. Bruno.
Anomalous Hall effect from the Dirac equation: Electrons in a periodic potential.
20th International Colloquium on magnetic films and surfaces "ICMFS 2009", Berlin, Germany, July 20 – 24, 2009.
164. M. Inglot, V.K. Dugaev, J. Barnaś.
Magnetic correlations and localized states in graphene.
20th International Colloquium on magnetic films and surfaces "ICMFS 2009", Berlin, Germany, July 20 – 24, 2009.
165. P. Horley, V.R. Vieira, V.K. Dugaev, P. Gorley, J. Barnaś.
Ballistic reversal of a macrospin by a single magnetic field pulse.
20th International Colloquium on magnetic films and surfaces "ICMFS 2009", Berlin, Germany, July 20 – 24, 2009.
166. A. Dyrda, V.K. Dugaev, J. Barnaś.
Spin Hall effect in graphene.
International Conference on Magnetism "ICM2009", Karlsruhe, Germany, July 26 – 31, 2009.
167. T. Szczepanski, V.K. Dugaev, I. Tralle, J. Barnaś.
Spin accumulation and magnetic Interactions in a magnetic resonance tunneling diode.
5th International Conference on spintronic and quantum information "Spintech 5", Krakw, Poland, July 7 – 11, 2009.
168. A. Dyrdał, V.K. Dugaev, J. Barnaś.
Spin Hall effect in structures with linear electron energy spectrum: topological contributions.
5th International Conference on spintronic and quantum information "Spintech 5", Krakw, Poland, July 7 – 11, 2009.
169. M. Inglot, V.K. Dugaev, J. Barnaś.
Localized magnetic state and induced magnetic moment in graphene.
5th International Conference on spintronic and quantum information "Spintech 5", Krakw, Poland, July 7 – 11, 2009.
170. T. Szczepanski, V.K. Dugaev, I. Tralle, J. Barnaś.
Transmission of electrons through graphene nanoribbon in a two-dimensional semiconductor structure.
E-MRS Fall Meeting 2009, Symposium E: New materials for spintronics, Warsaw, Poland, September 14 – 18, 2009.
171. P.M. Gorley, O.M. Mysliuk, V.K. Dugaev, P.P. Horley, J. Barnaś.
The influence of electric field on the optical spin polarization of electrons in a diluted magnetic semiconductor.
38th International School and Conference on the Physics of Semiconductors "Jaszowiec", Krynica-Zdrj, Poland, June 19 – 26, 2009.
172. M. Inglot, V.K. Dugaev.
Induced magnetic moment in graphene.
10th International School on Theoretical Physics "Symmetry and Structural Properties of Condensed Matter (SSPCM 2009)", Myczkowce, Poland, September 2 – 9, 2009.
173. V.K. Dugaev, M. Inglot, E. Sherman, J. Barnas,
Spin Hall effect in a two-dimensional electron gas with a random Rashba spin-orbit interaction.
Encontro Nacional 2010 de Fisica da Materia Condensada, Lisbon, Portugal, February 18 – 19, 2010 (*invited talk*).
174. E.Ya. Sherman, V.K. Dugaev, M.M. Glazov, V.I. Ivanov, J. Barnas.
Random Rashba fields.
Heraeus Seminar "Rashba and related spin-orbit effects in metals", Bad Honeff, Germany, January 6 – 8, 2010

175. A. Casiraghi, P. Walker, A.V. Akimov, A.W. Rushforth, R.P. Campion, D. Lehmann, C. Jasiukiewicz, V.K. Dugaev, B.L. Gallagher, A.J. Kent.
Control of magnetic anisotropy in the ferromagnetic semiconductor (Ga,Mn)(As,P) via nonequilibrium phonon pulses.
13th International conference of phonon scattering in condensed matter "*Phonons 2010*", Taipei, Taiwan, April 18 – 23, 2010
176. V.K. Dugaev
Spin Hall effect in a two-dimensional electron gas with random Rashba spin-orbit interaction.
LEA meeting, Grenoble, France, May 27 – 28, 2010 (*invited talk*).
177. M. Inglot, V.K. Dugaev
Discrete and resonance states in graphene near the Dirac point.
Joint European Magnetic Symposia JEMS 2010, Kraków, Poland, August 23 – 28, 2010.
178. T. Szczepanski, V.K. Dugaev
Edge states and the spin splitting in graphene nanoribbons.
Joint European Magnetic Symposia "*JEMS 2010*", Kraków, Poland, August 23 – 28, 2010.
179. N. Sedlmayr, V.K. Dugaev, J. Berakdar.
Interaction-driven dynamics of domain walls in magnetic nanowires.
Joint European Magnetic Symposia "*JEMS 2010*", Kraków, Poland, August 23 – 28, 2010.
180. M. Inglot, V.K. Dugaev
Local magnetization with Rashba interaction for the pure and doped graphene.
23rd General Conference of the Condensed Matter Division of the European Physical Society "*CMD23*", Warsaw, Poland, August 30 – September 3, 2010.
181. M. Inglot, V.K. Dugaev
Local magnetic and electric state in pure and doped graphene,
International Conference of the Trends in Nanotechnology "*TNT2010*", Braga, Portugal, September 6 – 10, 2010.
182. T. Szczepanski, V.K. Dugaev
Resonant tunneling diode with the magnetization of injector or quantum well,
E-MRS 2010 Fall Meeting, Warsaw, Poland, September 13 – 17, 2010
183. V.K. Dugaev
Two-dimensional electronic gas in periodic magnetic field.
International Workshop "*Spintronics Days*", Bilbao, Spain, July 27 – 28, 2010 (*invited talk*).
184. E.Ya. Sherman, J.G. Muga, V.K. Dugaev, A. Ruschhaupt.
Spin manipulation by coherent optical field.
International Conference on Nanoscience and Technology "*ICN+T 2010*", Beijing, China, August 23 – 27, 2010.
185. V.K. Dugaev
Two-dimensional electron systems in periodic magnetic field,
Workshop on Quantum Coherence and Correlations in Condensed-Matter and Cold-Atom Systems, Évora, Portugal, October 11 – 15, 2010 (*invited talk*).
186. V.I. Ivanov, V.K. Dugaev, E.Ya. Sherman, J. Barnaś.
Spin current in (110)-oriented GaAs quantum wells.
International Conference "*Nanomaterials: Application and properties 2011*", Alushta, Crimea, Ukraine, September 27 – 30, 2011.
187. V.K. Dugaev, E.Ya. Sherman, J. Barnaś, P. Bruno.
Anomalous Hall effect and spin current generation in 2D systems with random Rashba coupling.
Moscow International Symposium on Magnetism "*MISM-2011*", Moscow, Russia, August 21 – 25, 2011 (*invited talk*).
188. P. Baláz, L. Szymczyk, V.K. Dugaev, J. Barnaś.
Current-induced spin transfer torque in a Néel domain wall.
European Conference on Physics of Magnetism "*PM-2011*", Poznań, Poland, June 27 – July 1, 2011.
189. S. Wolski, V.K. Dugaev, Cz. Jasiukiewicz, A. Fantoni, M. Vieira.
Optically-induced nonequilibrium spin currents in semiconductor nanostructures.
European Conference on Physics of Magnetism "*PM-2011*", Poznań, Poland, June 27 – July 1, 2011.
190. V.K. Dugaev, T. Szczepański, J. Barnaś, F.G. Aliev.
Shot noise in magnetic tunneling structure.
Workshop "*Quantum Physics Days*", Bilbao, Spain, July 25 – 26, 2011 (*invited talk*).
191. F.G. Aliev, J.P. Cascales, D. Herranz, A. Gomez-Ibarlucea, C. Tiusan, M. Hehn, A. Dulluard, C. Bellouard, T. Szczepanski, V.K. Dugaev, J. Barnaś.
Shot noise in double barrier epitaxial magnetic tunnel junctions.
APS March Meeting, Boston, USA, February 27 – March 2, 2012.

192. V.K. Dugaev, M. Inglot, E.Ya. Sherman, J. Berakdar, J. Barnaś.
Light-induced spin pumping in two-dimensional electron systems with random Rashba spin-orbit interaction.
76. Jahrestagung der DPG und DPG Frühjahrstagung, Berlin, 25. – 30. Mrz 2012.
193. V.K. Dugaev, M. Inglot, E.Ya. Sherman, J. Berakdar, J. Barnaś.
Nonlinear anomalous Hall effect and negative magnetoresistance in two-dimensional electron gas with random spin-orbit interaction.
International Conference on Nanoscience + Technology "ISN+T 2012", Paris, France, July 23 – 27, 2012.
194. E.Ya. Sherman, V.K. Dugaev, M.M. Glazov,
Order from disorder: Spin and charge transport in systems with nanoscale random spin orbit.
International Conference "Dubna-Nano 2012", Dubna, Russia, July 9 – 14, 2012.
195. J.P. Cascales, D. Herranz, F.G. Aliev, T. Szczepanski, V.K. Dugaev, J. Barnaś, A. Dulluard, M. Hehn, C. Tiusan.
Controlling shot noise in double barrier epitaxial magnetic tunnel junctions.
Joint European Magnetic Symposium "JEMS 2012", Parma, Italy, September 9 – 14, 2012.
196. A. Dyrdał, J. Barnaś, V.I. Ivanov, V.K. Dugaev.
Spin Hall effect in a two-dimensional electron gas with strong Rashba spin-orbit interaction: semiclassical Keldysh approach.
41st Jaszowiec International School & Conference on the Physics of Semiconductors, Krynica-Zdroj, Poland, June 8 – 15, 2012.
197. J.P. Cascales, L. Martin, A. Dulluard, M. Hehn, C. Tiusan, T. Szczepanski, V.K. Dugaev, J. Barnaś, F.G. Aliev.
Shot noise in double barrier epitaxial magnetic tunnel junctions.
12th Joint MMM/Intermag Conference, Chicago, USA, January 14 – 18, 2013.
198. T. Szczepański, V.K. Dugaev, J. Barnaś, F.G. Aliev.
Shot noise in a double-barrier magnetic tunnel junction.
4th International Conference on Quantum Metrology, Poznań, Poland, May 15 – 17, 2013.
199. M. Inglot, V.K. Dugaev.
Thermoelectric and thermomagnetolectric properties of graphene.
European School on Magnetism. Cargèse, France, February 25 – March 8, 2013.
200. S. Wolski, C. Jasiukiewicz, V.K. Dugaev, J. Barnaś, T. Slobodskyy.
Transport of spin and charge in Fe/GaAs/Fe structures with double Schottky barriers.
42nd International School and Conference on the Physics of Semiconductors Jaszowiec 2013, Wisła, Poland, June 22 – 27, 2013.
201. V.K. Dugaev, M.I. Katsnelson.
Deformation-induced magnetic and electric fields in graphene.
Symposium on Nanostructured Materials NANO 2013, Rzeszów, Poland, May 21 - 22, 2013 (*invited talk*).
202. V.K. Dugaev, M.I. Katsnelson.
Graphene in periodic deformation fields.
20th International Conference on electronic properties of two-dimensional systems EP2DS-20, Wrocław, Poland, July 1 – 5, 2013.
203. V.K. Dugaev.
Anomalous transport of charge and spin in two-dimensional systems with random spin-orbit coupling.
Workshop in memory of prof. Korney Tovstyuk, Lviv, September 13, 2013 (*invited talk*).
204. S. Stagraczyński, V.K. Dugaev, J. Berakdar.
Strain-induced effects in the band structure of GaMnAs magnetic semiconductors.
Joint IMPRS/SFB Workshop on Nanoscience and Technology, Halle, Germany, September 30 – October 2, 2013.
205. M. Inglot, V.K. Dugaev, E.Ya. Sherman, J. Barnaś.
Spin pumping in graphene with Rashba spin-orbit interaction.
Joint IMPRS/SFB Workshop on Nanoscience and Technology, Halle, Germany, September 30 – October 2, 2013.
206. V.K. Dugaev.
Graphene in a periodic field of deformation.
Workshop on Theoretical Condensed Matter Physics, Instituto Superior Tecnico, Portugal, November 12, 2013 (*invited talk*).
207. M. Inglot, A. Dyrdał, V.K. Dugaev, J. Barnaś.
Enhanced thermoelectric currents in graphene with impurities.
European Conference "Physics of Magnetism 2014", Poznań, Poland, June 23 – 27, 2014.
208. S. Wolski, C. Jasiukiewicz, V.K. Dugaev, J. Barnaś, T. Slobodskyy.
Spin and charge transport in metal-semiconductor heterostructures with double Schottky barriers.
European Conference "Physics of Magnetism 2014", Poznań, Poland, June 23 – 27, 2014.

209. S. Wolski, C. Jasiukiewicz, V.K. Dugaev, J. Barnaś, T. Slobodskyy.
Spin and charge transport through the Fe/MgO/GaAs heterostructure.
43rd "Jaszowiec" International School and Conference on the Physics of Semiconductors, Wisła, Poland, June 7 – 12, 2014.
210. M. Inglot, V.K. Dugaev.
Momentum and spin relaxation time in graphene with impurity.
43rd "Jaszowiec" International School and Conference on the Physics of Semiconductors, Wisła, Poland, June 7 – 12, 2014.
211. Cz. Jasiukiewicz, S. Stagraczyński, D. Lehmann, V.K. Dugaev, J. Berakdar.
Influence of acoustic phonons on the magnetic anisotropy in GaMnAs magnetic semiconductors.
43rd "Jaszowiec" International School and Conference on the Physics of Semiconductors, Wisła, Poland, June 7 – 12, 2014.
212. T. Szczepański, V.K. Dugaev, J. Barnaś, F.G. Aliev.
Full counting statistics and superpoissonian shot noise in a magnetic tunneling structure.
43rd "Jaszowiec" International School and Conference on the Physics of Semiconductors, Wisła, Poland, June 7 – 12, 2014.
213. E.Ya. Sherman, M. Inglot, V.K. Dugaev, J. Barnaś.
Optical injection of spin density and spin current in graphene with Rashba spin-orbit interaction.
International Conference "Condensed Matter in Paris 2014" CMD25-JMC14, University Paris Descartes, Paris, France, August 24 – 29, 2014.
214. A. Dyrda l, J. Barnaś, V.K. Dugaev.
Current induced spin polarization in magnetized graphene with Rashba spin-orbit interaction.
11th International School on Theoretical Physics "Symmetry and Structural Properties of Condensed Matter" SSPCM 2014, Rzeszów, Poland, September 1 – 6, 2014.
215. M. Inglot, V.K. Dugaev, E.Ya. Sherman, J. Barnaś.
Spin pumping and charge-spin current injection in graphene with Rashba spin-orbit interaction.
11th International School on Theoretical Physics "Symmetry and Structural Properties of Condensed Matter" SSPCM 2014, Rzeszów, Poland, September 1 – 6, 2014.
216. S. Stagraczyński, C. Jasiukiewicz, V.K. Dugaev, J. Berakdar.
Strain designed magnetic properties in III-V semiconductors.
11th International School on Theoretical Physics "Symmetry and Structural Properties of Condensed Matter" SSPCM 2014, Rzeszów, Poland, September 1 – 6, 2014.
217. T. Szczepański, V.K. Dugaev.
Resonant tunneling in a semiconductor structure.
11th International School on Theoretical Physics "Symmetry and Structural Properties of Condensed Matter" SSPCM 2014, Rzeszów, Poland, September 1 – 6, 2014.
218. S. Wolski, V.K. Dugaev, J. Barnaś, T. Slobodskyy, W. Hansen.
Spin and charge transport through the Fe/MgO/GaAs heterostructure.
11th International School on Theoretical Physics "Symmetry and Structural Properties of Condensed Matter" SSPCM 2014, Rzeszów, Poland, September 1 – 6, 2014.
219. L. Chotorlishvili, Z. Toklikishvili, A. Sukhov, S.R. Etesami, V.K. Dugaev, J. Barnaś, S. Trimper, J. Berakdar.
Fokker-Planck approach to the theory of magnon-driven spin Seebeck effect.
79. DPG Frühjahrstatgung, Berlin, 15. – 20. März 2015.
220. S. Stagraczyński, Cz. Jasiukiewicz, V.K. Dugaev, J. Berakdar.
Strain-controlled magnetically doped III-V semiconductors.
79. DPG Frühjahrstatgung, Berlin, 15. – 20. März 2015.

Articles in national (Ukrainian) journals

1. E.L. Dolgov, V.K. Dugaev.
Sensitivity and linearity of characteristics of thermoresistors on the base of Si-Ge alloys.
Physical Electronics (Lvov), No. 15, pp. 71 – 74 (1977).
2. V.K. Dugaev, P.P. Petrov.
Energy spectrum of point defects in HgCdTe.
Physical Electronics (Lvov), No. 17, pp. 6 – 12 (1978).
3. V.K. Dugaev, P.P. Petrov.
Scattering of electrons in HgCdTe at low temperature.
Physical Electronics (Lvov), No. 17, pp. 12 – 17 (1978).

4. V.K. Dugaev, V.L. Volkov, V.I. Litvinov, K.D. Tovstyuk.
Ferroelectric phase transition in semiconductors with inverted band spectrum.
Ukrainian Physical Journal, Vol. 24, No. 3, pp. 538 – 544 (1979).
5. V.L. Volkov, V.I. Litvinov, V.K. Dugaev
Structural phase transition and band inversion in IV-VI compounds.
Physical Electronics (Lvov), No. 18, pp. 26 – 30 (1979).
6. V.K. Dugaev, K.D. Tovstyuk.
Mobility of carriers in pure semiconductors at low temperatures.
Ukrainian Physical Journal, Vol. 24, No. 10, pp. 1432 – 1436 (1979).
7. V.K. Dugaev, K.D. Tovstyuk.
Impurity states in narrow-gap semiconductors with anisotropic energy spectrum.
Physical Electronics (Lvov), No. 19, pp. 8 – 12 (1979).
8. V.K. Dugaev, K.D. Tovstyuk.
Impurity band in the coherent potential approximation.
Physical Electronics (Lvov), No. 19, pp. 12 – 14 (1979).
9. V.K. Dugaev, K.D. Tovstyuk.
Magnetic phase transitions in the impurity band of a semiconductor.
Ukrainian Physical Journal, Vol. 25, No. 2, pp. 255 – 261 (1979).
10. V.I. Litvinov, V.L. Volkov, V.K. Dugaev.
Concentration dependence of the critical temperature of structural phase transition in SnTe narrow-gap semiconductor.
Physical Electronics (Lvov), No. 21, pp. 13 – 17 (1980).
11. V.K. Dugaev, V.I. Litvinov.
Variation in the impurity spectrum of a semiconductor in a resonance light field.
Ukrainian Physical Journal, Vol. 26, No. 7, pp. 1201 – 1203 (1981).
12. V.K. Dugaev
Renormalization of the dielectric susceptibility in a semiconductor with narrow energy gap.
Physical Electronics (Lvov), No. 24, pp. 28 – 31 (1982).
13. V.K. Dugaev, P.P. Petrov.
On acceptor impurity potential in solid solutions of semiconductors.
Ukrainian Physical Journal, Vol. 29, No. 3, pp. 443 – 446 (1984).
14. V.K. Dugaev
Thermodynamics of interaction impurities at quasi-chemical reactions in solid state.
Physical Electronics (Lvov), No. 35, pp. 3 – 7 (1987).
15. V.K. Dugaev, P.P. Petrov.
Indirect interaction of dipole impurities in gapless semiconductors.
Ukrainian Physical Journal, Vol. 33, No. 9, pp. 1403 – 1407 (1988).
16. V.K. Dugaev, I.O. Polyakov
High-temperature thermometry on Si doped with impurities creating deep levels.
Physical Electronics (Lvov), No. 36, pp. 116 – 118 (1988).
17. V.K. Dugaev, P.P. Petrov, K.D. Tovstyuk.
Instabilities in the impurity system with the phonon exchange interaction.
Ukrainian Physical Journal, Vol. 35, No. 9, pp. 1381 – 1385 (1990).

Other publications

1. A.V. Sandulova, E.L. Dolgov, R.I. Baitsar, V.K. Dugaev, Z.V. Novakovskaya, Yu.Ya. Serdobintsev.
Sensor of linear displacements.
Certificate for invention No. 545853 (USSR Patent), October 15, 1976.
Bulletin of Inventor, No. 5 (1977).
2. A.V. Sandulova, E.L. Dolgov, R.I. Baitsar, V.K. Dugaev, Z.V. Novakovskaya.
Sensor of pressure.
Certificate for invention No. 587825 (USSR Patent), September 14, 1977.
Bulletin of Inventor, No. 3 (1978).
3. E.L. Dolgov, V.K. Dugaev.
Silicon doped with platinum as a material for thermometry.
Electronic Technics: Materials, No. 4, pp. 57 – 60 (1977).

4. V.K. Dugaev, P.P. Petrov.
Activity coefficient of a donor impurity in Si-Ge alloys.
Electronic Technics: Materials, No. 3, pp. 74 – 76 (1978).