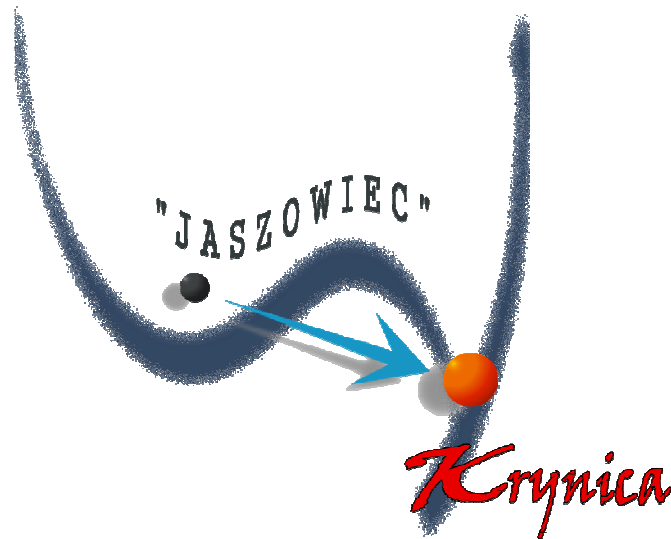


**41st "Jaszowiec" 2012  
International School and Conference  
on the Physics of Semiconductors**

**KRYNICA-ZDRÓJ, POLAND  
June 8<sup>th</sup> – June 15<sup>th</sup>, 2012**



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Institute of Physics, Polish Academy of Sciences  
Institute of Experimental Physics & Institute of Theoretical  
Physics at the Faculty of Physics, University of Warsaw  
Institute of High Pressure Physics, Polish Academy of Sciences  
Committee on Physics, Polish Academy of Sciences  
Foundation "Pro Physica"  
U.S. Army Forward Element Command-Atlantic  
U.S. Navy Office of Naval Research Global

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WARSAW 2012

## Saturday, June 9<sup>th</sup>, 2012

**9:20 -- 9:30**     **Lukasz Kłopotowski – School opening address**

### INVITED LECTURES (SaI1, SaI2)

**9:30 – 12:30**   **Alberto Amo** (Laboratory for Photonics and Nanostructures, Marcoussis, France)

*Polariton condensation, superfluidity, and quantum hydrodynamics*

**15:00 – 18:00**   **Jean-Noël Fuchs** (Laboratoire de Physique des Solides, Orsay , France)

*Electronic properties of graphene*

**19:00**            **Barbecue**

## Sunday, June 10<sup>th</sup>, 2012

### INVITED LECTURES (SuI1, SuI2)

**9:30 – 12:30**   **Tom Gregorkiewicz** (Van der Waals—Zeeman Institute, University of Amsterdam)

*Challenges, problems, and achievements in photovoltaics*

**14:30 – 17:30**   **Scott Crooker** (National High Magnetic Field Laboratory, Los Alamos, US)

*"Listening" to the spin-noise of electrons and holes in semiconductors*

**20:30 – 21:30**   **Concert** – chamber music performed by young artists, laureates of international music competitions

**21:30**            **Welcoming glass of wine**

## Monday, June 11<sup>th</sup>, 2012

**8:50 -- 9:00**     **Piotr Kossacki – Conference opening address**

### INVITED TALKS (MoI1 ... MoI4)

**9:00 – 10:00**     **Luis Vina** (Autonoma University of Madrid, Madrid, Spain)  
*Polariton condensates in the optical parametric oscillation regime*

10:00 – 10:05     Break

**10:05 – 11:05**     **Vladimir Dyakonov** (Experimentelle Physik VI,  
Universität Würzburg, Germany)  
*Photovoltaics based on organic semiconductors*

11:05 – 11:30     Coffee break

**11:30 – 12:30**     **Stanisław Krukowski** (Institute of High Pressure Physics PAS, Warsaw)  
*Ab initio studies of equilibrium and dynamic properties of polar nitride surfaces*

12:30 – 12:35     Break

**12:35 – 13:35**     **Jürgen Christen** (University of Magdeburg, Germany)  
*Nano-scale characterization of semiconductors using helium temperature scanning transmission electron microscope cathodoluminescence*

### CONTRIBUTED TALKS (MoO1 ... MoO7)

**19:00 – 19:15**     **J.-G. Rousset**, J. Suffczyński, J. Papierska, A. Golnik, M. Nawrocki,  
T. Dietl, A. Navarro-Quezada, B. Faina, T. Li, A. Bonanni  
*Magnetic Circular Dichroism vs Excitonic Zeeman Splitting in (Ga,Fe)N.*

**19:15 – 19:30**     **N. Gonzalez Szwacki**, J. A. Majewski, T. Dietl  
*The influence of Si and Mg codoping on the magnetism of (Ga,Mn)N and (Ga,Fe)N*

**19:30 – 19:45**     **K. Nogajewski**, M. Orlita, A. Witowski, F. Teppe, W. Knap,  
M. Potemski, M. Shur, K. Karpierz, M. Grynberg, J. Łusakowski  
*Non-local Properties of Two-Dimensional Electron Gas in GaN/AlGaN Heterostructures*

**19:45 – 20:00**     **K. Korzekwa**, M. Kugler, C. Gradl, S. Furthmeier, M. Griesbeck, M. Hirmer,  
D. Schuh, W. Wegscheider, C. Schüller, T. Korn, T. Kuhn, P. Machnikowski  
*Decoherence-driven mechanism for initialization of hole spins in a p-doped semiconductor quantum well*

20:00 – 20:10     Break

**20:10 – 20:25**     **E. Przeździecka**, K. Goscinski, A. Wierzbicka, A. Droba, A. Reszka,  
R. Jakiela, D. Dobosz, K. Kopalko, M. Stachowicz, J.M. Sajkowski, M.A  
Pietrzyk, S. Gieraltowska, M. Godlewski, A. Kozanecki  
*MBE grown p-ZnO: As / n-GaN diodes as selective UV detectors*

**20:25 – 20:40**     R. Buczko, **Ł. Cywiński**  
*PbTe/(Pb,Sn)Te heterostructures as analogues of thin films of three-dimensional topological insulators*

**20:40 – 20:55**     **A. Wójs**, G.J. Sreejith, C. Töke, J.K. Jain  
*Composite fermion phases in systems with effective K-body interactions*

**21:05 – 23:00**     **MONDAY POSTER SESSION (MoP1 ... MoP60)**

**Tuesday, June 12<sup>th</sup>, 2012****INVITED TALKS (TuI1 ... TuI4)**

- 9:00 – 10:00** **Julien Claudon** (CEA - CNRS Grenoble, France)  
*Fiber-like photonic nanowires: A new resource for solid-state quantum optics*
- 10:00 – 10:05 Break
- 10:05 – 11:05** **David Gershoni** (Department of Physics, The Technion—Israel Institute of Technology, Haifa, Israel),  
*Complete control of a matter qubit using one picosecond long optical pulse*
- 11:05 – 11:30 Coffee Break
- 11:30 – 12:30** **Jacek Kasprzak** (CEA-CNRS Grenoble, France)  
*Exploring coherence of individual emitters in a solid*
- 12:30 – 12:35 Break
- 12:35 – 13:35** **Mateusz Goryca** (Institute of Experimental Physics, University of Warsaw, Warsaw, Poland)  
*Optical manipulation of a single Mn spin in a CdTe quantum dot*
- 17:00 – 19:00** **TUESDAY POSTER SESSION (TuP1 ... TuP55)**
- 20:00** **Conference Banquet**

## Wednesday, June 13<sup>th</sup>, 2012

### INVITED TALKS (WeI1 ... WeI4)

- 9:30 – 10:30** **Perla Kacman** (Institute of Physics Polish Academy of Sciences, Warsaw, Poland)  
*Modelling III-V nanowires*
- 10:30 – 10:35 Break
- 10:35 – 11:35** **Gregory Fuchs** (School of Applied & Engineering Physics, Cornell University, Ithaca, NY USA)  
*Rapid quantum control over individual electronic and nuclear spins in diamond*
- 11:35– 12:00 Coffee Break
- 12:00 – 13:00** **Pascale Senellart** (LPN - CNRS Marcoussi, France)  
*Controlling the spontaneous emission of single quantum emitters with metallic microstructures*
- 13:00 – 13:05 Break
- 13:05 – 14:05** **Marek Demiański** (Institute of Theoretical Physics, University of Warsaw)  
*On the dark side of the Universe*

### CONTRIBUTED TALKS (WeO1 ... WeO7)

- 19:00 – 19:15** **T. Jakubczyk**, W. Pacuski, T. Smoleński, A. Golnik, M. Florian, F. Jahnke, C. Kruse, D. Hommel, P. Kossacki  
*Purcell Effect on CdTe QDs in ZnTe-based Pillar Cavities*
- 19:15 – 19:30** **A. Musiał**, P. Kaczmarkiewicz, G. Sęk, P. Podemski, P. Machnikowski, J. Misiewicz, S. Hein, S. Höfling, A. Forchel  
*Localization effects in polarization of emission from strongly anisotropic quantum-dot like structures*
- 19:30 – 19:45** **M. Zieliński**  
*Excitons in nanowire quantum dots*
- 19:45 – 20:00** Z.R. Zytkeiwicz, J. Borysiuk, K.P. Korona, A. Reszka, A. Wierzbicka, **M. Sobańska**, K. Klosek  
*Unusual properties of some GaN nanowires grown by plasma-assisted MBE on Si(001) substrates*
- 20:00 – 20:10 Break
- 20:10 – 20:25** **T. Smoleński**, T. Kazimierczuk, M. Goryca, T. Jakubczyk, Ł. Kłopotowski, P. Wojnar, A. Golnik, P. Kossacki  
*Radiative lifetime of dark excitons in self-assembled quantum dots*
- 20:25 – 21:40** **M. Koperski**, M. Goryca, P. Wojnar, T. Kazimierczuk, A. Golnik, P. Kossacki  
*Investigation of Excitonic Absorption in CdTe/ZnTe Quantum Dots Containing Single Mn<sup>2+</sup> Ion.*
- 20:40 – 20:55** **D.E. Reiter**, S. Lüker, K. Gawarecki, A. Grodecka-Grad, P. Machnikowski, V.M. Axt, T. Kuhn  
*Phonon Effects on Population Inversion in Quantum Dots: Resonant, Detuned and Frequency-swept Excitations*
- 21:05 – 23:00** **WEDNESDAY POSTER SESSION (WeP1 ... WeP57)**

## Thursday, June 14<sup>th</sup>, 2012

### INVITED TALKS (ThI1,ThI2)

- 9:00 – 10:00** **Daichi Chiba** (Kyoto University, Japan),  
*Electric-field control of ferromagnetism  
in semiconductors and metals*
- 10:00 – 10:05 Break
- 10:05 – 11:05** **Tomoteru Fukumura** (Department of Chemistry, Graduate School of  
Science, University of Tokyo, Japan)  
*High temperature ferromagnetism in doped oxides: from the birth to  
electrical control, and the mechanism*
- 11:05 – 11:30 Coffee break

### CONTRIBUTED TALKS (ThO1 ... ThO6)

- 11:30 – 11:45** **H. Przybylińska**, M. M. Hassan, G. Springholz, G. Bauer, W. Jantsch  
*Magnetic field induced polarization reversal in GeMnTe*
- 11:45 – 12:00** **G. Kunert**, S. Dobkowska, T. Li, J.v. Borany, C. Kruse, A. Bonanni,  
J. Grenzer, W. Stefanowicz, M. Sawicki, T. Dietl, D. Hommel  
*High Quality (Ga,Mn)N Epitaxial Films with Mn Concentrations up to 10%*
- 12:00 – 12:15** **S. Dobkowska**, T. Devillers, B. Faina, A. Navarro-Quezada, T. Li,  
M. Rovezzi, A. Grois, W. Stefanowicz, T. Dietl, A. Bonanni, M. Sawicki  
*Observation of magnetic ordering in (Ga,Mn)N at millikelvin temperatures*
- 12:15 – 12:30 Break
- 12:30 – 12:45** **A. Bogucki**, M. Goryca, T. Wojtowicz, G. Karczewski, P. Kossacki  
*ODMR Studies of Mn<sup>2+</sup> Ions in (Cd,Mg)Te/(Cd,Mn)Te Quantum Wells*
- 12:45 – 13:00** **K. Grodecki**, R. Bożek, A. Wysmołek, R. Stepniowski, W. Strupiński,  
J.M. Baranowski  
*Graphene Formation on SiC (0001) surface steps by CVD process*
- 13:00 – 13:15** **M. Wierzbowska**, A. Dominiak, J.A. Majewski  
*Role of Argon in CVD Epitaxy of Graphene on 4H-SiC(0001) Surface:  
DFT Calculations*

### INVITED TALKS (ThI3,ThI4)

- 15:00 – 16:00** **Andrea Ferrari** (University of Cambridge, Cambridge, UK)  
*Graphene photonics and optoelectronics*
- 16:00 – 16:05 Break
- 16:05 – 17:05** **Clement Faugeras** (High Magnetic Field Laboratory, Grenoble, France)  
*Magneto-Raman scattering of graphene-based systems*
- 17:05** **Piotr Kossacki – Closing address**
- 19:00** **Farewell dinner**

## MONDAY POSTER SESSION (MoP1 ...MoP60)

1. M.P. Nowak, B. Szafran  
*Two-electron electric dipole spin resonance in coupled quantum dots*
2. M. Sypererek, J. Andrzejewski, W. Rudno-Rudziński, J. Misiewicz, F. Lelarge, B. Rousseau, G. Patriarche  
*Carrier dynamics in self-assembled InAs quantum dashes grown on InP(001) dedicated for 1.55  $\mu\text{m}$  telecommunication technology.*
3. J. Papierska, H. Teisseyre, F. Malinowski, K.P. Korona, J. Suffczyński, N. Kriouche, A. Courville, P. deMierry  
*0D Exciton Emission from Semipolar (11-22) GaN Layers*
4. J. Kobak, W. Pacuski, T. Kazimierzczuk, J. Suffczyński, T. Jakubczyk, J.G. Rousset, E. Janik, P. Kossacki, C. Kruse, D. Hommel, A. Golnik  
*Three-dimensional magneto-optical anisotropy studies of CdTe quantum dots*
5. J. Kobak, J.G. Rousset, E. Janik, P. Kossacki, A. Golnik, W. Pacuski  
*Ultra low density of CdTe quantum dots grown by MBE*
6. Ł. Marcinowski, K. Roszak, P. Machnikowski  
*Distinguishability of double quantum dot spin states measured by the quantum point contact Fano factor in the presence of phonons*
7. P. Karwat, P. Machnikowski  
*Collective Luminescence from Double Quantum Dots and the Evolution of Spatial Coherence*
8. P. Kowalski, P. Machnikowski  
*Method for calculating the efficiency of multiple exciton generation in InAs nanocrystals*
9. M. Szot, L. Kowalczyk, K. Dybko, P. Dziawa, A. Reszka, T. Story, V.V. Volobuev, T.A. Samburskaya, E.N. Zubarev, A.Yu. Sipatov  
*Optical transitions in PbTe/PbS type-II quantum dot heterostructures on KCl (001) substrate*
10. G. Michałek, B.R. Bułka  
*Electronic transport through three terminal hybrid system with quantum dots*
11. Ł. Dusanowski, A. Golnik, M. Sypererek, J. Suffczyński, M. Nawrocki, G. Sęk, J. Misiewicz, T.W. Schlereth, C. Schneider, S. Höfling, M. Kamp  
*Optical properties of individual InAlGaAs/AlGaAs quantum dots with non-classical emission statistics*
12. A. Maryński, G. Sęk, A. Musiał, J. Andrzejewski, M. Kozub, J. Misiewicz, C. Gilfert, J.P. Reithmaier  
*New kind of InAs/InP epitaxial quantum dot-like structures with decreased lateral aspect ratio: optical study*

13. J.G. Rousset, T. Słupinski, T. Jakubczyk, P. Stawicki, K. Gołasa, A. Babiński, M. Nawrocki, W. Pacuski  
*Growth and Characterization of III-V Distributed Bragg Reflector and Quantum Dots.*
14. J. Barański, T. Domański  
*Phonon influence on electron transport through quantum dots coupled to the superconducting and metallic leads*
15. S. Bednarek, J. Pawłowski  
*Manipulation of single electron spin in an electrostatic quantum dot without magnetic field*
16. M. Molas, K. Gołasa, B. Piętka, A. Babiński  
*Fine structure of neutral excitons in single GaAs/GaAlAs quantum dots*
17. M. Molas, M. Furman, K. Gołasa, J. Lapointe, Z.R. Wasilewski, A. Babiński  
*Fine structure of a triexciton in single InAs/GaAs quantum dots*
18. M. Azizi, P. Machnikowski  
*Dynamics of multiple exciton generation in nanocrystals: the role of dissipation*
19. W.J. Pasek, B. Szafran  
*Negative Trion Emission Spectrum in Stacked Quantum Dots: External Electric Field and Valence Band Mixing*
20. P. Schillak, G. Czajkowski  
*Magnetoexcitons in Double Quantum Dots*
21. Ł. Dusanowski, G. Sęk, A. Musiał, P. Podemski, J. Misiewicz, A. Löffler, S. Höfling, S. Reitzenstein, A. Forchel  
*Evolution of multiexcitonic emission spectra from single InGaAs/GaAs quantum dots in high excitation regime*
22. W. Abdussalam, P. Machnikowski  
*Collective spontaneous emission from small QD ensembles*
23. P. Kaczmarkiewicz, P. Machnikowski, T. Kuhn  
*Double Quantum Dot in a Quantum Dash - Electronic and Optical Properties*
24. K. Gołasa, M. Molas, Z.R. Wasilewski, A. Babiński  
*Light hole-heavy hole mixing in the natural InAs/GaAs quantum dots*
25. M. Szymura, Ł. Kłopotowski, P. Wojnar, E. Dynowska, T. Wojtowicz, J. Kossut  
*Single Core/Shell ZnTe/ZnMgTe and ZnMnTe/ZnMgTe Nanowires: Emission Energy and Polarization*
26. K. Gas, E. Dynowska, M. I. Łukasiewicz, M. Wiater, B.S. Witkowski, E. Guzewicz, M. Godlewski, A. Kamińska, R. Hołyst, T. Wojtowicz, W. Szuszkiewicz  
*Raman Scattering Studies of ZnTe Nanowires with Atomic Layer Deposited Zn-Co Oxide Shell*



27. K.P. Korona, Z.R. Zytkeiwicz, P.S. Perkowska, J. Borysiuk, J. Binder, M. Sobańska, K. Kłosek  
*Photoluminescence dynamics of GaN/Si nanowires*
28. A. Šiušys, M. Sawicki, H. Dobkowska, T. Wojciechowski, A. Reszka, B.J. Kowalski, P. Dłużewski, J. Z. Domagała, H. Przybylińska, T. Story, J. Sadowski  
*Magnetic and structural properties of GaAs-(Ga,Mn)As core-shell nanowires grown on GaAs (111)B substrate*
29. A. Koroliov, R. Adomavicius, A. Šiušys, J. Sadowski, A. Reszka, A. Krotkus  
*Enhanced Terahertz Emission from GaAs Nanowires*
30. K. Gałkowski, J. Suffczyński, J. Papierska, T. Kazimierczuk, P. Kossacki, P. Wojnar, E. Janik, T. Wojtowicz  
*Photoluminescence Study of (Zn,Mn)Te/(Zn,Mg)Te Core/Shell Nanowires*
31. P. Wojnar, E. Janik, J. Suffczyński, J. Papierska, E. Dynowska, S. Kret, A. Petrouchik, G. Karczewski, T. Wojtowicz  
*Growth of optically active diluted magnetic ZnMnTe/ZnMgTe core/shell nanowires*
32. B.S. Witkowski, K. Sawicki, J. Suffczyński, M. Godlewski  
*Hydrothermal synthesis and optical characterization of ZnO nanorods*
33. C. Śliwa, M. Birowska, J.A. Majewski, T. Dietl  
*Theoretical study of bulk in-plane uniaxial anisotropy in (Ga,Mn)As*
34. P. Szumniak, S. Bednarek  
*All Electrical Coherent Manipulation of Hole Spin in Gated Semiconductor Nanodevices*
35. O. Proselkov, J. Sadowski, C. Śliwa, T. Dietl, M. Sawicki  
*Observation of sign reversal of cubic anisotropy in (Ga,Mn)As*
36. M. Koba, J. Suffczyński  
*Influence of Distributed Bragg Reflector on the Magnitude of Magneto-Optical Kerr Effect in Dilute Magnetic Semiconductors*
37. P. Juszyński, D. Wasik, M. Gryglas-Borysiewicz, J. Przybytek, J. Szczytko, J. Gosk, A. Twardowski, J. Sadowski  
*Influence of epitaxial strain on magnetic anisotropy in (Ga,Mn)As*
38. V.Yu. Ivanov, J. Debus, O. Oleshchuk, D.R. Yakovlev, M. Godlewski  
*ODMR in II-IV DMS quantum well structures: study of spin relaxation and spin dependent energy transfer*
39. J.B. Gosk, M. Boćkowski, I. Grzegory, J. Szczytko, A. Twardowski  
*Magnetic anisotropy of GaN:Cr single crystals*
40. M. Sawicki, D. Sztenkiel, O. Proselkov, W. Stefanowicz, T. Dietl  
*Complex magnetic response of (Zn,Co)O layers*

41. Kh.V. Le, R.R. Gałazka  
*Effects of p-d exchange interaction on 6S5/2 cubic-field splitting of Mn in diluted magnetic semiconductor (Zn,Mn)Te*
42. M.V. Radchenko, G.V. Lashkarev, M.E. Bugaiova, A.I. Dmitriev, V.I. Lazorenko, M.M. Pavliuk, L.A. Krushynskaya, Y.A. Stelmakh, W. Knoff, T. Story, Y. Dumont  
*The features of magnetic and thermoelectric properties of ferromagnetic nanocomposites of different composition*
43. W. Knoff, M.I. Łukasiewicz, A. Wolska, M.T. Klepka, T. Story, M. Godlewski, J. Wojnarowicz, A. Opalińska, T. Chudoba, W. Łojkowski  
*Magnetic properties of ZnCoO nanoparticles obtained by a microwave solvothermal method*
44. W. Knoff, H. Przybylińska, A. Wołoś, P. Dziawa, A. Szczerbakow, T. Story  
*g-factor of Mn ions in (Ge,Mn)Te bulk crystals and thin layers*
45. P. Wójcik, J. Adamowski, B.J. Spisak, M. Wołoszyn  
*Spin current polarization in magnetic resonant tunnelling structures*
46. J. Zelezny, F. Maca, J. Masek, T. Jungwirth  
*The electronic and magnetic structure of a metastable tetragonal phase of CuMnAs*
47. M. Papaj, J. Kobak, J.G. Rousset, E. Janik, A. Golnik, P. Kossacki, W. Pacuski  
*MBE growth and magneto-optical properties of (Zn,Co)Te layers*
48. O. Yastrubchak, J. Sadowski, J. Żuk, J.Z. Domagała, T. Andrearczyk, T. Wosiński  
*Impact of annealing treatment on the electronic and band structure in (Ga,Mn)As epitaxial layers*
49. I. Stefaniuk, I. Rogalska, A.I. Savchuk, I.D. Stolyarchuk, E.M. Sheregii  
*EPR Study of PbMnI<sub>2</sub> Nanocrystals*
50. Ł. Gluba, O. Yastrubchak, M. Kulik, W. Rzdokiewicz, J.Z. Domagała, J. Sadowski, T. Andrearczyk, T. Wosiński, G. Sęk, W. Rudno-Rudziński, J. Żuk  
*Optical Study of E<sub>1</sub> and E<sub>1</sub>+Δ<sub>1</sub> Interband Transitions in (Ga,Mn)As Epitaxial Layers*
51. V.D. Fedachivskyy, Y.V. Drogobitskiy, O. Yastrubchak, J. Sadowski, J. Żuk, J.Z. Domagała, T. Andrearczyk, T. Wosiński  
*E<sub>0</sub> and E<sub>SO</sub> Transition Energy Evolution in (Ga,Mn)As Epitaxial Layers with Increasing of Mn Content*
52. J. Jadcak, M. Kubisa, K. Ryczko, L. Bryja, M. Potemski  
*The manipulation of the 2D hole g-factor in asymmetric GaAs quantum wells*
53. L. Kilanski, A. Podgórn, W. Dobrowolski, M. Górski, V. Domukhovski, A. Reszka, B.J. Kowalski, J.R. Anderson, N.P. Butch, V.E. Slynko, E.I. Slynko  
*Spinodal Decomposition in Eu Co-Doped Ge<sub>1-x</sub>Cr<sub>x</sub>Te*

54. A. Podgórn, W. Dobrowolski, V. Domukhovski, B. Brodowska, M. Arciszewska, A. Reszka, B. J. Kowalski, V. E. Slynko, E. I. Slynko  
*Magnetism of Composite Cluster-Glass Ge/1-x-y/Pb/x/Mn/y/Te System*
55. A. Łusakowski, P. Bogusławski  
*Magnetic Anisotropy Energy in GeMnTe: Kinetic Contribution*
56. K. Milowska, J.A. Majewski  
*First-principle Modeling of the Electronic Transport in Functionalized Double Wall Carbon Nanotubes*
57. M. Birowska, C. Śliwa, J.A. Majewski, T. Dietl  
*Ab initio studies of Mn adsorption on GaAs surface*
58. A. Dyrdał, J. Barnaś  
*Spin Hall effect in two-dimensional electron gas with Rashba and Dresselhaus spin-orbit interaction*
59. M. Woińska, J. Szczytko, A. Majhofer, J. Gosk, K. Madrak, E. Górecka, A. Twardowski  
*Monte-Carlo simulations of ferromagnetic nano-composites.*
60. M. Gawełczyk, P. Machnikowski  
*Phonon-Assisted Dynamical Hole Spin Dephasing in p-doped Semiconductor Quantum Wells*

## TUESDAY POSTER SESSION (TuP1 ...TuP55)

1. M..A. Załuska-Kotur, F. Krzyżewski, S. Krukowski  
*Monte Carlo modeling of crystal growth dynamics and surface patterns created at GaN(0001) and InGaN(0001) surfaces.*
2. L.H. Dmowski, M. Baj, L. Konczewicz, T. Suski, S. Grzanka, X.Q. Wang, A. Yoshikawa  
*Influence of the growth polarity on the appearance of p-type conduction in InN*
3. S. P. Łepkowski, W. Bardyszewski  
*Pressure-Driven Reordering of Valence Band States in GaN/Al<sub>x</sub>Ga<sub>1-x</sub>N and Al<sub>y</sub>Ga<sub>1-y</sub>N/AlN Quantum Wells*
4. H. Turski, M. Siekacz, M. Sawicka, G. Muziol, G. Cywiński, C. Cheze, S. Grzanka, R. Kudrawiec, M. Baranowski, J. Misiewicz, C. Skierbiszewski  
*Growth and optical characterization of InGaN/InGaN quantum wells*
5. C. Cheze, M. Sawicka, M. Siekacz, G. Muziol, H. Turski, S. Grzanka, M. Kryśko, M. Boćkowski, C. Skierbiszewski  
*N-polar InGaN multiple quantum wells for green emitters*
6. M. Ściesiek, J. Papierska, J. Suffczyński, T. Dietl, A. Navarro-Quezada, T. Li, A. Bonanni  
*Control of free carriers density in GaN with the light*
7. D. Dobrovolskas, G. Tamulaitis, J. Mickevičius, V. Kazlauskienė, J. Miškinis, E. Kuokštis, P. Onufrijevs, A. Medvids, J.J. Huang, C.Y. Chen, C.H. Liao, C.C. Yang  
*Spatially-Resolved Study of Defect-Related Luminescence in Laser-Annealed InGaN Epilayers*
8. G. Staszczak, R. Czernecki, A. Kamińska, P. Perlin, T. Suski  
*Blue photoluminescence in GaN:Mg and green luminescence in InGaN:Mg studied by diamond anvil cell technique.*
9. M.A. Pietrzyk, E. Zielony, J.M. Sajkowski, M. Stachowicz, A. Droba, P. Kamyczek, A. Wierzbicka, E. Przedziecka, E. Płaczek-Popko, D. Dobosz, Z. Gumienny, A. Kozanecki  
*Single quantum wells of ZnMgO/ZnO/ZnMgO grown by PA-MBE system on p-type Si(111)*
10. T.A. Krajewski, G. Luka, K. Dybko, P. Nowakowski, A. Suchocki, Ł. Wachnicki, B.S. Witkowski, R. Jakiela, M. Godlewski, E. Guziewicz  
*Dominant native defects in the ZnO layers grown by low-temperature Atomic Layer Deposition process*
11. M. Latkowska, R. Kudrawiec, F. Janiak, M. Motyka, J. Misiewicz, Q. Zhuang, A.M. Godenir, A. Krier  
*Optical properties of InNAs(Sb) investigated by Fourier transform infrared photoluminescence and photoreflectance*

12. H. Teisseyre, M. Boćkowski, I. Grzegory, A. Kozanecki, M. Kunzer, C. Gossler, K. Holc, U. Schwarz  
*GaN doped with beryllium - new possibilities for known material*
13. T.D. Young, H. Teisseyre, P. Dłużewski, A. Kahouli, N. Kriouche, J. Brault, B. Damilano, M. Leroux, A. Courville, P. deMierry  
*GaN/AlGaN (11-22) semipolar nanostructures: Observations by theory and experiment*
14. M. Sawicka, H. Turski, G. Muziol, M. Siekacz, C. Cheze, G. Cywiński, P. Wolny, M. Kryśko, S. Grzanka, R. Kucharski, C. Skierbiszewski  
*Semipolar (20-21) GaN and InGaN growth by PAMBE on Ammono-GaN*
15. J.G. Rousset, W. Pacuski, E. Janik, J. Kobak, T. Jakubczyk, P. Stawicki, M. Tokarczyk, G. Kowalski, M. Nawrocki  
*Growth and Characterization of a Lattice Matched Distributed Bragg Reflector Based on Cd, Zn, Mg, Te.*
16. M. Ptasińska, J. Piechota, S. Krukowski  
*Physical properties of GaN(000-1) surface – Density Functional Theory (DFT) investigations*
17. K. Gołaszewska, A. Taube, R. Kruszka, M.A. Borysiewicz, M. Ekielski, M. Juchniewicz, Z. Sidor, A. Nowek, W. Jung, P. Prystawko, M. Leszczyński, E. Kamińska, A. Piotrowska  
*Nanoscale surface characterisation of AlGaIn/GaN HEMTs with recessed ohmic and Schottky contact geometries*
18. P.S. Perkowska, K. Pakuła, I. Grzegory, K.P. Korona, A. Wysmołek, R. Stępniewski  
*Influence of the charge state of the gallium vacancy on yellow luminescence in GaN*
19. P. Nowakowski, A. Kamińska, G. Staszczak, A. Suchocki, T. Suski, J.-F. Carlin, N. Grandjean, A. Yamamoto  
*Optical spectroscopy of InAlN layers grown by MOCVD method*
20. Yu. Suhak, K. Izdebska, P. Skupiński, A. Reszka, P. Sybilski, B.J. Kowalski, A. Mycielski, A. Suchocki  
*Application of ZnO single crystals for light-induced water splitting under UV irradiation*
21. M.I. Łukasiewicz, B.S. Witkowski, Ł. Wachnicki, S. Gieraltowska, P. Nowakowski, R. Jakiela, E. Guziewicz, M. Godlewski  
*A study of structural, optical and electrical properties of ZnCuO thin films grown by Atomic Layer Deposition*
22. J.M. Sajkowski, M.A. Pietrzyk, D. Dobosz, M. Stachowicz, A. Droba, E. Przedziecka, A. Wierzbicka, M. Syperek, A. Kozanecki  
*Optical characterization of ZnO/ZnMgO single quantum wells grown by PAMBE*
23. K. Izdebska, Yu. Suhak, P. Sybilski, P. Nowakowski, P. Skupiński, G. Łuka, A. Kamińska, A. Mycielski, A. Suchocki  
*Studies of defects responsible for red color of as grown ZnO crystals*

24. M. Baranowski, M. Latkowska, R. Kudrawiec, M. Syperek, J. Misiewicz  
*Monte-Carlo simulations of the influence of localization centers on a carrier dynamics in GaInNAs quantum wells*
25. E. Litwin-Staszewska, S. Grzanka, R. Piotrkowski, J. Smalc-Koziorowska  
*Role of oxygen in formation of p-type contacts to GaN*
26. M. Czapkiewicz, G. Cywiński, K. Dybko, M. Siekacz, P. Wolny, S. Gierałtowska, E. Guziejewicz, C. Skierbiszewski, J. Wróbel  
*Electrostatic gates for GaN/AlGaN Quantum Point Contacts*
27. J. Papierska, K. Gałkowski, K.P. Korona, J. Binder, P. Kossacki, J. Suffczyński, B.S. Witkowski, Ł. Wachnicki, M. Godlewski, T. Dietl  
*Studies of plasmonic coupling in ZnO layers covered by Ag nanostructures*
28. K. Gas, E. Łusakowska, P. Baroni, S. Petit, W. Szuszkiewicz  
*Temperature evolution of the phonon dispersion for ZnO: inelastic neutron scattering preliminary data*
29. P. Strąk, P. Kempisty, S. Krukowski  
*Oscillator strength and electron-hole wave function overlap analysis of AlN/GaN quantum wells by DFT modeling*
30. G. Muziol, H. Turski, M. Siekacz, M. Sawicka, P. Wolny, C. Cheze, G. Cywiński, P. Perlin, C. Skierbiszewski  
*Waveguide design for long wavelength InGaN based laser diodes*
31. L. Janicki, R. Kudrawiec, M. Gladysiewicz, J. Misiewicz, G. Cywiński, C. Cheze, P. Wolny, P. Prystawko, C. Skierbiszewski  
*Contactless Electroreflectance and Photorefectance Spectroscopy of GaN Van Hoof Structures Grown by Molecular Beam Epitaxy and Metalorganic Vapor Phase Epitaxy*
32. I.I. Shtepliuk, G.V. Lashkarev, V.V. Khomyak, I.I. Timofeeva, V.I. Lazorenko, R. Yakiela, V. Khranovskyy, R. Yakimova  
*ZnO band gap engineering: effect of substrate on structural and luminescence properties of the Zn<sub>1-x</sub>Cd<sub>x</sub>O ternary alloys*
33. D.V. Myroniuk, G.V. Lashkarev, V.I. Lazorenko, I.I. Shtepliuk, V.A. Baturin, O.Yu. Karpenko, V.V. Strelchuk, A.F. Kolomys, I.I. Timofeeva  
*Effect of O<sup>+</sup> ion implantation on properties of Cd-doped ZnO films*
34. I.I. Shtepliuk, G.V. Lashkarev, O. Khyzhun, V.V. Strelchuk, O. Kolomys, V. V. Khomyak, V. I. Lazorenko, A. Romaniuk, D.V. Myroniuk  
*XPS and Raman characterizations of Zn<sub>1-x</sub>Cd<sub>x</sub>O films grown at the different growth conditions*
35. Yu. Suhak, K. Izdebska, A. Reszka, R. Czernecki, S. Grzanka, M. Leszczyński, E. Kamińska, A. Suchocki  
*Application of p-GaN and p-InGaN as electrodes for light-induced water splitting*

36. V.V. Khomyak, M.M. Slyotov, I.I. Shteplyuk, G.V. Lashkarev, O.M. Slyotov, V.V. Kosolovskiy  
*Effect of the selenium isoelectronic impurity on the luminescence of ZnO films*
37. S. Grzanka, P. Perlin, G. Targowski, R. Czernecki, M. Leszczyński, T. Suski  
*Influence of InGaN quantum well depth on the efficiency and thermal stability of optical emission in UV-violet light emitting diodes*
38. T. Zakrzewski, P. Bogusławski  
*Properties of transition metal ions in GaP and GaN: a first principles study*
39. D. Snigurenko, K. Kopałko, T. A. Krajewski, G. Łuka, S. Gierałtowska, B.S. Witkowski, M. Godlewski, K. Dybko, W. Paszkowicz, E. Guziewicz  
*Structure depended conductivity of thin ZnO films*
40. A. Kafar, S. Stanczyk, P. Wisniewski, R. Czernecki, G. Targowski, M. Leszczyński, T. Suski, P. Perlin  
*Junction Temperature Determination of Nitride Laser Diode Array*
41. D.V. Myroniuk, G.V. Lashkarev, V.I. Lazorenko, V.V. Strelchuk, A.F. Kolomys, I.I. Tymofeeva, A.I. Ievtushenko  
*Effect of substrate temperature on structure and optical properties ZnO films deposited on Si<sub>3</sub>N<sub>4</sub>/Si substrates by magnetron sputtering*
42. K. Sakowski, P. Strąk, S. Krukowski, L. Marcinkowski  
*Simulations of GaInN MQW based devices using DFT based radiative recombination model*
43. P. Kempisty, P. Strąk, S. Krukowski  
*Adsorption of ammonia and hydrogen on GaN(0001) surface - Density Functional Theory (DFT) study*
44. A. Reszka, H. Turski, M. Siekacz, B.J. Kowalski, C. Skierbiszewski  
*Degradation of structural quality of high In content InGaN layers - a cathodoluminescence study*
45. E. Wachowicz, M. Sznajder, J.A. Majewski  
*Ab initio studies of early stages of AlN and GaN growth on 4H- and 6H-SiC*
46. K. Tokar, J.A. Majewski  
*Adsorption of Propane, Methane, and Benzene on (0001) 4H-SiC Surface: First-principles Calculations*
47. H. Bednarski, J. Spalek  
*Application of pair approximation to bound magnetic polaron states in diluted magnetic semiconductors*

48. K. Gietka, J. Kobak, J.-G. Rousset, E. Janik, T. Słupiński, P. Kossacki, A. Golnik, W. Pacuski  
*MBE growth of CdTe/ZnTe quantum dots with single Mn ions*
49. A. Dyrdał, V. K. Dugaev, V. I. Ivanov and J. Barnaś  
*Spin Hall effect in a two-dimensional electron gas with Rashba spin-orbit interaction: semiclassical Keldysh approach*
50. A.E. Walkiewicz, M.A.Fenner, S. Magonov, S. Wu, H.-P. Huber, J. Smoliner, F. Kienberger  
*Advanced characterization of material properties on the nanometer scale using atomic force microscopy*
51. S. Kochowski, Ł. Drewniak, B. Paszkiewicz, R. Paszkiewicz  
*Analysis of DLTS and ICTS spectra obtained for (n) GaAs MIS structures*
52. L. Ovsiannikova, I. Shtepliuk, G. Lashkarev and V. Kartuzov  
*Electronic Structure of fullerene-like and wurtzitic-like Zn(Cd)O clusters*
53. K. Szałowski  
*Quantum size effects in indirect exchange coupling between magnetic impurities in armchair graphene nanoribbons*
54. M. Wehna, R. Kudrawiec, J. Misiewicz, Ł. Wachnicki, E. Guziewicz, M. Godlewski  
*Modulation Spectroscopy of ZnO Layers and Al<sub>2</sub>O<sub>3</sub>(HfO<sub>2</sub>)/ZnO Heterostructures Grown by Atomic Layer Deposition*
55. I. Shtepliuk, V. Khranovsky, G. Lashkarev, V. Lazorenko, A. Ievtushenko, V. Khomyak, D. Myroniuk and R. Yakimova  
*Study of the n-Zn<sub>0.9</sub>Cd<sub>0.1</sub>O/p-SiC heterostructures*



## WEDNESDAY POSTER SESSION (WeP1 ...WeP57)

1. I. Grigelionis, M. Białek, M. Czapkiewicz, V. Kolkovsky, M. Wiater, T. Wojciechowski, J. Wróbel, T. Wojtowicz, D. B. But, W. Knap, M. Grynberg, J. Łusakowski  
***THz Response of a Point Contact Based on CdTe/CdMgTe Quantum Well in Magnetic Field***
2. D.B. But, N.V. Dyakonova, D. Coquillat, W. Knap, T. Watanabe, Y. Tanimoto, S. BoubangaTombet, T. Otsuji  
***Research on THz detectors based with InGaP/InGaAs/GaAs Double –Grating Gate Transistor in high magnetic fields***
3. P. Sznajder, B. Piętka, W. Bardyszewski, J. Szczytko, J. Łusakowski  
***Resonant Plasmon Response of a Periodically Modulated Two-Dimensional Electron Gas***
4. D. Yavorskiy, J. Marczewski, K. Kucharski, P. Kopyt, W. Gwarek, M. Ratajczyk, W. Knap, M. Ściesiek, B. Piętka, J. Łusakowski  
***THz Scanner Based on Si Metal - Oxide - Semiconductor Field-Effect Transistors***
5. G. Cywiński, H. Turski, M. Siekacz, C. Cheze, P. Wolny, K. Dybko, M. Boćkowski, W. Knap, C. Skierbiszewski  
***Elimination of Parasitic Conductivity Channel in 2DEG Nitride Structures for THz Detectors and Emitters***
6. J. Szczytko, R. Adomavicius, E. Papis, A. Barańska, A. Wawro, A. Krotkus, B. Piętka, J. Łusakowski  
***THz Time Domain Spectroscopy of Thin Gold and Titanium Layers on GaAs***
7. R.A. Pietruszka, G. Łuka, M. Kustos, E. Przedziecka, E. Guziwicz, M. Godlewski  
***Growth and properties of zinc oxide/cadmium telluride solar cells with n-type ZnO grown by atomic layer deposition***
8. E. Shatkovskis, R. Mitkevičius, V. Zagadskij, J. Stupakova  
***Improved performance and spectral features of complex porous silicon structure containing silicon solar cells***
9. M. Bednorz, T. Fromherz, G.J. Matt, E.D. Głowacki, C.J. Brabec, N.S. Sariciftci  
***Silicon/organic hybrid heterojunction infrared photodetector operating at room temperature in the telecommunication range***
10. K. Olender, T. Wosiński, Z. Tkaczyk, G. Łuka, V. Kolkovsky, G. Karczewski  
***Surface defect states in MBE-grown p-type CdTe***
11. T.I. Mykytyuk, V.Ya. Roshko, L.A. Kosyachenko, E.V. Grushko  
***Limitations on Thickness of Absorber Layer in CdS/CdTe Solar Cells***
12. S. Chusnutdinow, V.P. Makhniy, T. Wojtowicz, G. Karczewski  
***Electrical properties of p-ZnTe/n-CdTe photodiodes***

13. V.V. Brus, M.I. Ilashchuk, Z.D. Kovalyuk, P.D. Maryanchuk  
*Electrical properties of n-TiO<sub>2</sub>/p-CdTe heterojunctions prepared by the spray pyrolysis technique*
14. R. Rudniewski, K. Gietka, P. Drózdź, J. Kobak, J.G. Rousset, E. Janik, A. Golnik, W. Pacuski  
*Optical properties of CdTe layers and related structures grown using MBE*
15. J. Piwowar, P. Kulboka, M. Pilat, A. Ciesielski, A. Lewera, L. Timperman, N. Alonso-Vante, J. Szczytko  
*Voltamperometric Study of Oxygen Reduction Reaction on Pt Selectively Deposited on Metal Oxide Semiconductors in Presence of Organic Compounds*
16. M.M. Solovan, V.V. Brus, P.D. Maryanchuk, V.Z. Slobodian  
*Fabrication and characterization of CdO Thin Films and n-CdO/p-Si heterojunction diodes*
17. I. Bragar, K. Gawarecki, P. Machnikowski  
*Theory of Intraband Transitions in Quantum Dot Chain for Intermediate Band Solar Cells*
18. P. Potasz, A.D. Guclu, A. Wójs, P. Hawrylak  
*Electronic properties of gated triangular graphene quantum dots: magnetism, correlations and geometrical effects*
19. R. Stankiewicz, M. Gryglas-Borysiewicz, L. Dobrzański, J. Przybytek, A. Kwiatkowski, A. Wysmołek, J.M. Baranowski, W. Strupiński, R. Stępniewski  
*QHE in low carrier density epitaxial graphene grown by CVD on SiC (0001)*
20. P. Kaźmierczak, A. Piotrowska, E. Kamińska, A. Wysmołek  
*Graphene Layers in Ohmic Contacts to SiC*
21. J.A. Blaszczyk, A. Kosiorek, W. Strupiński, A. Wysmołek, R. Stępniewski  
*Doping of SiC substrates induced by graphene growth process*
22. M. Rawski, J. Żuk  
*FIB Preparation of SiC Samples for Transmission Electron Microscopy*
23. M. Krajewski, N.A. Kyeremateng, F. Dumur, M. Eyraud, T. Djenizian, P. Knauth  
*Direct Electrodeposition Of Copolymer Electrolyte Into Nanostructured Electrodes Based On TiO<sub>2</sub> Nanotubes For The 3D Microbatteries*
24. J. Urban, K. Grodecki, A. Wysmołek, W. Strupiński, R. Stępniewski, J.M. Baranowski  
*Raman Spectroscopy of Nitrogen Doped Epitaxial Graphene Grown on 4H-SiC*
25. L.N. Leonat, G. Voss, M. Havlicek, M. Irimia-Vladu, M. White, S. Bauer, N.S. Sariciftci, E.D. Głowacki  
*Hydrogen bonded organic semiconductors*

26. H. Bednarski, J. Gašiorowski, M. Domański, B. Hajduk, J. Jurusik, B. Jarzabek, J. Weszka, N.S. Sariciftci  
*Stability of diodes with poly(3-hexylthiophene) and polyazomethines thin organic layer*
27. M. Woińska, K. Milowska, J.A. Majewski  
*Ab initio modeling of graphene functionalized with boron and nitrogen*
28. S. Safai, P. Kacman, R. Buczko  
*Surface states of PbSnTe and PbSnSe topological crystalline insulators*
29. W. Jaskólski, M. Pelc, L. Chico, A. Ayuela  
*Octagonal defects in graphene structures*
30. A. Hruban, A.K. Materna, S.G. Strzelecka, M.Piersa, E.Jurkiewicz-Wegner, M.Romaniec, R. Diduszko, W. Orłowski, W.Dalecki  
*Growth of p-type Bi<sub>2</sub>Se<sub>3</sub> crystals with controlled carrier concentration for topological insulators*
31. S. Szyszko, A. Wołoś, A. Drabińska, M. Kamińska, G. Strzelecka, A. Hruban, A.K. Materna, M. Piersa  
*Investigation of Topological Insulators Bi<sub>2</sub>Te<sub>3</sub>, Bi<sub>2</sub>Se<sub>3</sub>, and Bi<sub>2</sub>Te<sub>2</sub>Se by Microwave Spectroscopy*
32. B. Piętka, D. Zdulski, J. Szczytko, J. Łusakowski, G. Nardin, Y. Léger, F. Morier-Genoud, B. Deveaud-Plédran  
*Magnetic field induced momentum redistribution of exciton-polariton confined modes*
33. M. Matys, R. Ucka, B. Adamowicz  
*Analytical and numerical analysis of the surface photovoltage in n-GaAs for the determination of surface electronic parameters*
34. A.K. Królicka  
*Characterization of Mercury Cadmium Telluride (Hg<sub>1-x</sub>Cd<sub>x</sub>Te) Epitaxial Layers by made Photodiodes*
35. J. Jadczyk, L. Bryja, A. Wójs, M. Potemski, F. Liu, D.R. Yakovlev, M. Bayer, D. Reuter, A. Wieck, C.A. Nicoll, I. Farrer, D.A. Ritchie  
*Coexistence of nearly free and strongly bound trions in magneto-photoluminescence of two-dimensional quantum structures with tunable electron or hole concentration*
36. M. Białek, M. Czapkiewicz, K. Fronc, J. Wróbel, K. Karpierz, B. Piętka, M. Grynberg, V. Umansky, J. Łusakowski  
*Plasmons in high electron mobility GaAs/AlGaAs heterostructures*
37. G. Grabecki, M. Czapkiewicz, J. Wróbel, Ł. Cywiński, T. Wojciechowski, M. Zholudev, V. Gavrilenko, N.N. Mikhailov, S.A. Dvoretiskii, W. Knap, F. Teppe  
*Electron transport studies of the zero-crossing point HgCdTe quantum well*

38. B. Baert, N.D. Nguyen  
*Numerical Simulation of the Electrical Characteristics of GeSn/Ge Semiconducting Heterostructures*
39. K.A. Barantsev, A.N. Litvinov, G.A. Kazakov  
*Control of population in tunnel-coupled quantum wells by coherent population trapping effect*
40. H. Bednarski, E.D. Głowacki, M. Domański, J. Weszka, N.S. Sariciftci  
*Variable range hopping conduction in semiconducting poly(3-hexylthiophene) based diodes*
41. M. Marchwiany, J.A. Majewski  
*Real space grid approach to the solution of Kohn-Sham equations*
42. K. Gołasa, M. Molas, K.P. Korona, R. Bożek, A. Babiński  
*Defect-related photoluminescence from molybdenum disulfide (MoS<sub>2</sub>)*
43. M. Zapalska, T. Domański  
*Renormalization group approach for the double exchange ferromagnets.*
44. P. Róžański, M. Świdorski, M. Zieliński  
*Linear scaling tight-binding/real space approach for calculation of excitonic properties of million-atom nanowire quantum dots*
45. P. Tredak, J.A. Majewski  
*Molecular Dynamics Simulations of Hydrocarbons Adsorption on Silicon Carbide Surfaces*
46. J. Krok-Kowalski, G. Władarz, P. Rduch, E. Malicka, T. Groń, A. Guzik  
*Critical behaviour of the mean-field ferromagnet  $\text{Cu}_{1.02}[\text{Cr}_{1.77}\text{Ti}_{0.24}]\text{Se}_4$*
47. N. Gonzalez Szwacki, J. A. Majewski  
*Structural and electronic properties of the silicon carbide allotropes as predicted by exact exchange calculations*
48. M. Szot, K. Dybko, A. Szczerbakow, L. Kowalczyk, A. Mycielski, V. Domukhovski, P. Dziawa, T. Story  
*Electric and thermoelectric properties of PbTe-CdTe solid solutions*
49. Z.R. Kudrynskyi  
*Nanostructured surfaces of unannealed and annealed SnS<sub>2</sub>, SnSSe and SnSe<sub>2</sub> layered crystals*
50. T. Groń, E. Filipek, G. Dąbrowska, H. Duda, S. Mazur, Z. Kukuła, S. Pawlus  
*Semiconducting properties of Cu<sub>5</sub>SbO<sub>6</sub>*
51. O. Grushka, V. Maslyuk, S. Chupyra, O. Mysliuk, S. Bilichuk  
*Electrophysical properties of electron-irradiated Hg<sub>3</sub>In<sub>2</sub>Te<sub>6</sub>*

52. T. Groń, E. Filipek, M. Piz, H. Duda, T. Mydlarz  
*Poole-type emission and varistor behavior in Nb<sub>2</sub>VSbO<sub>10</sub>*
53. E. Malicka, T. Groń, A.W. Pacyna, A. Ślebarski, J. Goraus, A. Gaĝor, T. Mydlarz  
*Specific heat and magnetic properties of single-crystalline (Zn<sub>0.925</sub>In<sub>0.054</sub>)[Cr<sub>1.84</sub>In<sub>0.152</sub>]Se<sub>4</sub> semiconductor*
54. P. Rduch, H. Duda, A. Guzik, E. Malicka, T. Groń, A. Gaĝor  
*Critical behaviour of the 3D-Ising ferromagnets Cd[Cr<sub>x</sub>Ti<sub>y</sub>]Se<sub>4</sub>*
55. T.T. Kovalyuk, E.V. Mastruk, P.D. Maryanchuk  
*Physical properties of crystals Hg<sub>1-x-y</sub>Mn<sub>x</sub>Dy<sub>y</sub>Te*
56. A. Mirowska, W. Orłowski  
*Influence of Growing Conditions and Doping on Physical Properties of Gallium Antimonide Single Crystals*
57. M. Sznajder, Y.S. Lim, K.E. Glukhov, L.Yu. Kharkhalis, D.M. Bercha  
*Parameters of an unique condensation state in the structure of In<sub>4</sub>Se<sub>3</sub> crystal*