

# WYKAZ PRAC OPUBLIKOWANYCH W 2013 ROKU

## 1.1 PUBLIKACJE W CZASOPISMACH ZNAJDUJĄCYCH SIĘ W CZEŚCI A WYKAZU MINISTRA, WYRÓŻNIONYCH PRZEZ JCR

1. J. Kaczkowski, A. Jezierski  
*Electronic Structure of the Cubic Perovskites BiMO<sub>3</sub> (M = Al, Ga, In, Sc).*  
Acta Physica Polonica A 124, 852 (2013)
2. A. Krupska  
Thermodynamic interpretation of pressure-induced spin transitions in thiosemicarbazones of iron (III).  
Acta Physica Polonica A. 124(4) (2013) 626-628
3. K.V. Tretiakov, I. Szleifer, and B. A. Grzybowski  
*The Rate of Energy Dissipation Determines Probabilities of Non-equilibrium Assemblies.*  
Angewandte Chemie-International Edition 52, 10304-10308, 2013
4. S. K. Hoffmann, J. Goslar, S. Lijewski  
*Electron paramagnetic resonance and electron spin echo studies of Co<sup>2+</sup> coordination by nicotinamide adenine dinucleotide (NAD+) in water solution.*  
Applied Magnetic Resonance 44, 817-826, 2013
5. Sz. Łoś, L. Duclaux, L. Alvarez, Ł. Hawełek, S. Duber, W. Kempinski  
*Cleavage and size reduction of graphite crystal using ultrasound radiation.*  
Carbon 55, 53-61, 2013
6. W. Kempinski, D. Markowski, M. Kempinski, M. Śliwińska-Bartkowiak  
*Charge carrier transport control in activated carbon fibers.*  
Carbon 57, 530-536, 2013
7. J. Przesławski, W. Medycki, A. Piecha, R. Jakubas, D. Kruk  
*Dynamics and ferroelectric phase transition of (C<sub>3</sub>N<sub>2</sub>H<sub>5</sub>)<sub>5</sub>Bi<sub>2</sub>Br<sub>11</sub> by means of ac calorimetry and <sup>1</sup>H NMR relaxometry.*  
Chemical Physics 410, 19–24, 2013
8. M. Augustyniak-Jabłokow, K.Tadyszak, M.Maćkowiak, S.Lijewski  
*ESR study of spin relaxation in graphene.*  
Chemical Physics Letters 557, 118-122, 2013
9. M. Iwamoto, I. Śliwa, A.A. Vakulenko, A.V. Zakharov  
*Field-induced dependence of rotational diffusion processes in smectic films deposited on a solid surface.*  
Chemical Physics Letters 566, 32-37, 2013
10. J. Cielecka-Piontek, M.Paczkowska, K.Lewandowska, B.Barszcz, P.Zalewski, P.Garbacki  
*Solid-state stability study of meropenem – solutions based on spectrophotometric analysis.*  
Chemistry Central Journal 7, 98, 2013
11. J. Lieffrig, O. Jeannin, A. Frąckowiak, I. Olejniczak, R. Świtlik, S. Dahaoui, E. Aubert, E. Espinosa, P. Auban-Senzier, and M. Fournigué  
*Charge-assisted Halogen Bonding: Donor-Acceptor Complexes with Variable Ionicity.*  
Chemistry A European Journal 19, 14804-14813 (2013)

12. I. Olejniczak, A. Frąckowiak, R. Świetlik, T. G. Prokhorova, and E. B. Yagubskii  
*Charge Fluctuations and Ethylene Groups Ordering Transition in the  $\beta''$ -(BEDT-TTF)<sub>4</sub>[ $(H_3O)Fe(C_2O_4)_3$ ]·Y Molecular Charge-Transfer Salts.*  
*ChemPhysChem* **14**, 3925 (2013) WZ
13. J. Cielecka-Piątek, P. Zalewski, B. Barszcz, K. Lewandowska, M. Paczkowska  
*Stress Degradation studies of tebipenem and Validated stability-indicating LC method.*  
*Chromatografia* 76, 381-386, 2013
14. K. Pogorzelec-Glaser, A. Rachocki, P. Ławniczak, A. Pietraszko, Cz. Pawlaczyk, B. Hilczer, M. Pugaczowa-Michalska  
*Structure, hydrogen bond network and proton conductivity of new benzimidazole compounds with dicarboxylic acids.*  
*CrystEngComm* 15, 1950-1959, 2013
15. M. Węclawik, A. Gągor, A. Piecha, R. Jakubas, W. Medycki  
*Synthesis, crystal structure and phase transitions of a series imidazolium iodides.*  
*CrystEngComm* 15, 5633, 2013
16. F. Camerel, G. Le Helloco, T. Guizouarn, O. Jeannin, M. Fourmigué, A. Frąckowiak, I. Olejniczak, R. Świetlik, A. Marino, E. Collet, L. Toupet, and E. Canadell  
*Correlation between Metal-Insulator Transition and Hydrogen Bonding Network in the Organic Metal  $\delta$ -(BEDT-TTF)<sub>4</sub>[2,6-Anthracene-bis(sulfonate)] $\bullet$ ( $H_2O$ )<sub>4</sub>*  
*Crystal Growth & Design* **13**, 5135-5145 (2013)
17. M. Owczarek, R. Jakubas, A. Pietraszko, W. Medycki, J. Baran  
*Investigation of structure–properties relationship in a novel family of halogenoantimonates(III) and halogenobismuthates(III) with morpholinium cation: [NH<sub>2</sub>(C<sub>2</sub>H<sub>4</sub>)<sub>2</sub>O]MX<sub>4</sub>. Crystal structure, phase transitions and dynamics of molecules.*  
*Dalton Transactions* 42, 15069-15079, 2013
18. K. Lewandowska, B. Barszcz, J. Wolak, A. Graja, M. Grzybowski, D. T. Gryko  
*Vibrational properties of new corrole-fullerene dyad and its components.*  
*Dyes and Pigments* 96, 249-255, 2013
19. M. Urbaniak , S. B. Tooski, A. Ramšak, B.R. Bułka  
*Thermal entanglement in a triple quantum dot system.*  
*European Physical Journal B* (2013) 86: 505
20. W. Jeżewski, I. Śliwa, W. Kuczyński  
*Strongly nonlinear dynamics of ferroelectric liquid crystals.*  
*European Physical Journal E* 36, 2, 2013
21. B. Andrzejewski, K. Chybczyńska, K. Pogorzelec-Glaser, B. Hilczer, T. Toliński, B. Łęska, R. Pankiewicz, P. Cieluch  
*Magnetic Relaxation in Bismuth Ferrite Micro-Cubes.*  
*Ferroelectrics*, 448: 58-70, 2013
22. M.Yu.Yablokov, A.B.Gilman, M.A. Augustyniak-Yabłokow, K. Tadyszak, A.A. Kuznetsov  
*As ESR study of the polymer synthesized from 1-aminonaphthalene by plasma polymerization.*  
*High Energy Chemistry*, No 5, 273-275, 2013
23. M. Połomska, B. Hilczer, E. Markiewicz, Z. Trybuła, B. Andrzejewski, I. Szafraniak-Wiza, A. Pietraszko  
*Dielectric response and specific heat studies of Cd<sub>2</sub>Nb<sub>2</sub>O<sub>7</sub> ceramics obtained from mechano-synthesized nanopowders.*  
*IEEE Transactions on Ultrasonics Ferroelectrics and Frequency Control* Vol. 60, No. 8, 1603-1611, 2013

24. J.Jadżyn, J. Świergiel, I. Płowaś, R. Dąbrowski, U. Sokołowska  
*Dipolar aggregation and the static dielectric permittivity of some liquid crystalline materials.*  
Industrial and Engineering Chemistry Research 2013, 52, 4109-4112
25. J.Świergiel, L. Bouteiller, J. Jadżyn  
*Interpretation of the electric impedance spectra recorded for liquids in the presence of ionic and displacement currents.*  
Industrial and Engineering Chemistry Research 52, 11974-11979, 2013
26. A. Szczeszak, T. Grzyb, B. Barszcz, V. Nagirnyi, A. Kotlov, S. Lis  
*Hydrothermal synthesis and structural and spectroscopic properties of the new triclinic form of  $GdBO_3 \cdot Eu^{3+}$  nanocrystals.*  
Inorganic Chemistry 52, 4934-4940, 2013
27. A.Kowalczyk, M. Falkowski  
*Thermal conductivity of  $CeNiAl_4$  Kondo lattice.*  
Intermetallics 37, 65-68, 2013
28. M. Falkowski, M.Pugaczowa-Michalska, A.Kowalczyk  
*Magnetic, transport and electronic properties of  $SmNi_4Si$  compounds.*  
Journal of Alloys and Compounds 577, 19-24, 2013
29. T.Toliński, K.Synoradzki, M.Koterlyn, G.Koterlyn, R.Yasnitskii  
*Competing energy scales in the compounds  $Ce(Ni_{1-x}Cu_x)_2(Si_2)$ .*  
Journal of Alloys and Compounds 580, 512-516, 2013
30. M. Falkowski, A. Kowalczyk  
*Magnetoresistivity of  $Ce_{1-x}La_xNiAl_4$  compounds.*  
Journal of Applied Physics 113, 093704, 2013
31. J. Dubowik, I. Gościańska, K. Załęski, H. Głowiński, Y. Kudryavtsev, A. Ehresmann  
*Exchange bias in thin Heusler alloy films in contact with antiferromagnet.*  
Journal of Applied Physics 113, 193907, 2013
32. M. Matczak, B. Szymański, M. Urbaniak, M. Nowicki, H. Głowiński, P. Kuświk, M. Schmidt, J. Aleksiejew, J. Dubowik, F. Stobiecki  
*Antiferromagnetic magnetostatic coupling in Co/Au/Co films with perpendicular anisotropy.*  
Journal of Applied Physics 114, 093911, 2013
33. P. Balaz, J. Barnaś, J-P. Ansermet  
*Transverse spin penetration length In metallic pin valves.*  
Journal of Applied Physics 113, 193905, 2013
34. W. Skowroński, P. Ogrodnik, J. Wrona, T. Stobiecki, R. Świrkowicz, J. Barnaś, G. Reiss, S.van Dijken  
*Backhopping effect in magnetic tunnel junctions: Comparison between theory and experiment.*  
Journal of Applied Physics 114, 233905 (2013)
35. A. Held, J. Kowalska-Kuś, A. Łapiński, K. Nowińska  
*Vanadium species supported on inorganic oxides as catalyst for propene epoxidation in the presence of  $N_2O$  as an oxidant.*  
Journal of Catalysis 306, 1-10, 2013
36. J. Świergiel, J. Jadżyn  
*Temperature dependence of the relative static permittivity of homologous series of liquid 1, n-Dicyanoalkanes  $N\equiv C-(CH_2)_n-C\equiv N$ , n = 2 to 6.*  
Journal of Chemical and Engineering Data 58, 128-131, 2013

37. I. Płowaś, J. Świergiel, J. Jadzyn  
*Relative static permittivity of dimethyl sulfoxide + water mixtures.*  
Journal of Chemical Engineering and Data 58, 1741-1746, 2013
38. J. Świergiel, I. Płowaś, J. Jadzyn  
*Temperature and concentration dependences of the electric conductivity of dimethyl sulfoxide + ammonium nitrate electrolytes.*  
Journal of Chemical and Engineering of Data 58, 2302-2306, 2013
39. E.W. Reinheimer, D. Jankowski, R. Świetlik, M. Fourmigué  
*Hybrid materials based on the Lindquist polyoxometalate  $[W_6O_{19}]^{2-}$  and the organosulfur donor O-Me<sub>2</sub>TTF: A Combined structural and spectroscopic study.*  
Journal of Chemical Crystallography 43, 178-186, 2013
40. D.M. Heyes, A.C. Brańka  
*Lattice summations for spread out particles: applications to neutral and charged systems.*  
Journal of Chemical Physics 138, 034504, 2013
41. S.K. Hoffmann, S. Lijewski  
*Raman electron spin-lattice relaxation with the Debye-type and with real phonon spectra in crystals.*  
Journal of Magnetic Resonance 227, 2013, 51-56
42. W. Medycki, L. Latanowicz, P. Szklarz, R. Jakubas  
*Proton dynamics at low and high temperatures in a novel ferroelectric diammonium hypodiphosphate  $(NH_4)_2H_2P_2$ <sub>6</sub> (ADhP) as studied by <sup>1</sup>H spin-lattice relaxation time and second moment of NMR line.*  
Journal of Magnetic Resonance 231, 54-60, 2013
43. S.K. Hoffmann, J. Goslar, S. Lijewski, A. Zalewska  
*EPR and ESE of CuS<sub>4</sub> complex in Cu(dmit)<sub>2</sub>: g-Factor and hyperfine splitting correlation in tetrahedral Cu-sulfur complexes.*  
Journal of Magnetic Resonance 236, 7-14, 2013
44. N. Lopic, A. Jelen, S. Vrtnik, Z. Jaglicic, M. Wencka, R. Starc, A. Blinc, J. Dolinsek  
*Quantitative determination of magnetic force on a coronary stent in MRI.*  
Journal of Magnetic Resonance Imaging 37, 391-397, 2013
45. T. Toliński, K. Synoradzki, A. Hoser, S. Rols  
*Crystal field manifestation in inelastic neutron scattering, magnetic susceptibility and specific heat of the antiferromagnetic CeCoAl<sub>4</sub>.*  
Journal of Magnetism and Magnetic Materials 345, 243-248, 2013
46. B. Andrzejewski, A. Molak, B. Hilczer, A. Budziak, R. Bujakiewicz-Korońska  
*Field induced changes in cycloidal spin ordering and coincidence between magnetic and electric anomalies in BiFeO<sub>3</sub> multiferroic*  
Journal of Magnetism and Magnetic Materials 342: 17-26, 2013
47. M. Falkowski, A. Kowalczyk, T. Toliński  
*Magnetic, thermodynamic and transport properties at the first and second order magnetic phase transitions in Dy<sub>5</sub>Si<sub>3</sub> compound.*  
Journal of Magnetism and Magnetic Materials 331, 144-150, 2013
48. I. Danielewicz-Ferchmin, E.M. Banachowicz, A.R. Ferchmin  
*Dielectric saturation in water as quantitative measure of formation of well-defined hydration shells of ions at various temperatures and pressures. Vapor-liquid equilibrium case.*  
Journal of Molecular Liquids 187, 157-164, 2013

49. A. Łapiński, R. Świełlik, L. Ouahab, S. Golhen  
*Spectroscopic studies of the phase transition from the Mott insulation state to the charge-ordering state of  $\kappa$ -(ET)<sub>4</sub>[M(CN)<sub>6</sub>][N(C<sub>2</sub>H<sub>5</sub>)<sub>4</sub>]·2H<sub>2</sub>O (M=Co<sup>III</sup> and Fe<sup>III</sup>) salts.*  
 Journal of Physical Chemistry A 117, 5241-5250, 2013
50. P. Stefański  
*Spin selective pseudogap Kondo effect in a double quantum dot interferometer with Rashba interaction.*  
 Journal of Physics-Condensed Matter 25, 085303, 2013
51. T. Klimczuk, V.A. Sidorov, A. Szajek, M. Werwiński, S.A.J. Kimber, A.L. Kozub, D. Safarik, J.D. Thompson, R.J. Cava  
*Structure and paramagnetism in weakly correlated Y<sub>8</sub>Co<sub>5</sub>.*  
 Journal of Physics–Condensed Matter 25, 125701, 2013
52. R. Mackeviciute, M. Ivanov, J. Banys, N. Novak, Z. Kutnjak, M. Wencka, J.F. Scott  
*The perfect soft mode: giant phonon instability in a ferroelectric.*  
 Journal of Physics-Condensed Matter 25, 212201, 2013
53. K.P. Wójcik, I. Weymann, J. Barnaś  
*Asymmetry-induced effects in Kondo quantum dots coupled to ferromagnetic leads.*  
 Journal of Physics-Condensed Matter 25 (2013) 075301
54. D. Jankowski, R. Świełlik, O. Jeannin, A. Assaf, E.W. Reinheimer, and M. Fourmiguén  
*Charge localization in one-dimensional organic metals with regular organic stacks: infrared and Raman studies of (DMiTTF)<sub>2</sub>X (X = ReO<sub>4</sub>, ClO<sub>4</sub>).*  
 Journal of Raman Spectroscopy 44, 1765 (2013)
55. T. Grzyb, M. Rumowski, A. Szczeszak, S. Lis  
*Structural, morphological and spectroscopic properties of Eu<sup>3+</sup> - doped rare earth fluorides synthesized by the hydrothermal method.*  
 Journal of Solid State Chemistry 200, 76-83, 2013
56. F. Pop, P. Auban-Senzier, A. Frąckowiak, K. Ptaszyński, I. Olejniczak, J.D. Wallis, E. Canadell, and N. Avarvari  
*Chirality Driven Metallic versus Semiconducting Behavior in a Complete Series of Radical Cation Salts Based on Dimethyl-Ethylenedithio-Tetrathiafulvalene (DM-EDT-TTF).*  
 Journal of the American Chemical Society 135, 17176-17186 (2013)
57. Y.V. Kudravtsev, N.V.Uvarov, V.N.Iermolenko, J. Dubowik, J.Y.Rhee, Y.J.Yoo, Y.P.Lee  
*Structural and magnetic properties and electronic structures of Fe-Mn-Ga alloys.*  
 Journal of the Korean Physical Society 62, no 10, 1508-1513, 2013
58. S. Lipiński, D. Krychowski  
*Kondo effect near the Van Hove singularity in biased bilayer graphene.*  
 Journal of the Korean Physical Society **62**, 1440, 2013
59. P. Kopčanský, N. Tomašovičová, T. Tóth-Katona, N. Éber, M. Timko, V. Závišová, J. Majorošová, M. Rajňák, J. Jadžyn, X. Chaud.  
*Increasing the magnetic sensibility of liquid crystals by rod-like magnetic nanoparticles.*  
 Magnetohydrodynamics, 49, 586-591 (2013)
60. A. Piecha, A. Gągor, M. Węsławik, R. Jakubas, W. Medycki  
*Anomalous dielectric behaviour in centrosymmetric organic-inorganic hybrid chlorobismuthate(III) containing functional N,N-dimethylethylammonium ligand. Crystal structure and properties.*  
 Materials Research Bulletin 48, 151-157, 2013
61. W. Kempinski, M. Kempinski, D. Markowski, Sz. Łoś  
*Localized states in nanocarbons.*  
 Nukleonika. International Journal of Nuclear Research 58(3), 371-373, 2013

62. A. Szczeszak, K. Kubasiewicz, S. Lis  
*Photophysical characterization of  $La_{1-x}Eu_xBO_3$  and  $La_{1-x}Tb_xBO_3$  nanopowders synthesized by sol-gel Pechini method.*  
Optical Materials 35, 1297-1303, 2013
63. D. Piwowarska, A. Ostrowski, I. Stefaniuk, S.M. Kaczmarek, C. Rudowicz  
*EPR investigations of the local environment around  $Co^{2+}$  ions doped in  $PbMoO_4$  single crystals- Correlation with optical studies.*  
Optical Materials 35(12) (2013) 2296-2302
64. B. Andrzejewski, K. Chybczynska, K. Pogorzelec-Glaser, B. Hilczer, B. Łęska, R. Pankiewicz, P. Cieluch  
*Magnetic properties of  $BiFeO_3$  micro-cubes synthesized by microwave agitation.*  
Phase Transitions, 86: 748-757, 2013
65. E. Markiewicz, K. Szot, B. Hilczer, A. Pietraszko  
 *$BiFeO_3$  single crystal as a resistive switching element for application in microelectronic devices.*  
Phase Transition 86, 284-289, 2013
66. J. Wolak, A. Pawłowski, M. Połomska, A. Pietraszko  
*Molecular dynamics in  $(NH_4)_3H(SeO_4)_2$  at superionic phase transitions: Raman spectroscopy study.*  
Phase Transitions, 86: 182-190, 2013
67. D. Dardas, K. Nowicka, W. Kuczyński  
*Examination if three new fluorinated tilted smectics.*  
Phase Transitions, 86(2-3), 147 (2013)
68. K. Nowicka, D. Dardas, K. Garbat  
*High permittivity of chiral tilted smectic phases in a binary mixture.*  
Phase Transitions, 86(2-3), 153 (2013)
69. B. Hilczer, Antoni Pawłowski, Jan Petzelt and Jirka Hlinka  
*Guest editors' preface.*  
Phase Transitions: 86, 111-112, 2013
70. T. Szczepański, V.K.Dugaev, J.Barnaś, J.P.Cascales, F.G.Aliev  
*Shot noise in magnetic double-barrier tunnel junctions.*  
Physical Review B 87, 155406, 2013
71. P. Balaz, J. Barnaś  
*Current instability of a composite free layer with antiferromagnetic interlayer coupling.*  
Physical Review B 88, 014406, 2013
72. G. Michałek, B.R. Bułka, T. Domański, K. I. Wysokiński  
*Interplay between direct and crossed Andreev reflections in hybrid nanostructures.*  
Physical Review B 88, 155425, 2013
73. P. Balaz, M. Zwierzycki, J. Barnas  
*Spin transfer torque and current-induced switching in metallic spin valves with perpendicular polarizers*  
Physical Review B 88, 094422 (2013)
74. A. Dyrdął, M. Inglot, V. K. Dugaev, J. Barnaś  
*Thermally induced spin polarization of a two-dimensional electron gas.*  
Physical Review B 87, 245309 (2013)
75. R. López, Tomaž Rejec, Jan Martinek, and Rok Žitko.  
*SU(3) Kondo effect in spinless triple quantum dot.*  
Physical Review B 87, 035135 (2013)

76. N. Tomasovicova, M. Timko, Z. Mitroova, M. Koneracka, M. Rajnak, N. Eber, T. Toth-Katona, X. Chaud, J. Jadzyn, P. Kopcansky  
*Capacitance changes in ferronematic liquid crystals induced by low magnetic fields.*  
Physical Review E 87, 014501, 2013
77. M. Misiorny, J. Barnaś  
*Effects of Transverse Magnetic Anisotropy on Current-Induced Spin Switching.*  
Physical Review Letters, 046603 (2013)
78. K.V. Tretiakov and K.W. Wojciechowski  
*Elastic properties of fcc crystals of polydisperse soft spheres*  
Physica Status Solidi B 250, 2020-2029, 2013
79. K.W. Wojciechowski, J.N. Grima, K.L. Alderson, J. Rybicki  
*Auxetic Materials and Related Systems Preface*  
Physica Status Solidi B 250 (10), 1959-1962 (2013)
80. S. Krompiewski  
*The effect of electrode/graphene interfaces and dephasing processes on conductance and giant magnetoresistance.*  
Physica Status Solidi – Rapid Research Letters 1-4, 2013
81. V.Ch. Mai, W.Bednarski, B.Borowiak-Sobkowiak, B.Wilkaniec, S.Samardakiewicz, I.Morkunas  
*Oxidative stress in pea seedling leaves in response to Acyrthosiphon pisum infestation.*  
Phytochemistry 93, 49-62, 2013
82. A. Pilarska, M. Wysokowski, E. Markiewicz, T. Jasionowski  
*Synthesis of magnesium hydroxide and its calcinates by a precipitation method with the use of magnesium sulfate and poly(ethylene glycols).*  
Powder Technology 235, 148-157, 2013
83. I. Morkunas, M. Formela, L. Marczak, M Stobiecki, W. Bednarski  
*The mobilization of defence mechanisms in the early stages of pea seed germination against Ascochyta pisi.*  
Protoplasma 250, 63-75, 2013
84. R. Pązik, E. Piasecka, M. Małecka, V.G. Kessler, B. Idzikowski, Z. Śniadecki, R.J. Wilusz  
*Facile non-hydrolytic synthesis of highly water dispersible, surfactant free nanoparticles of synthetic  $MFe_2O_4$  ( $M - Mn^{2+}, Fe^{2+}, Co^{2+}, Ni^{2+}$ ) ferrite spinel by a modified Bradley reaction.*  
RSC Advances 3, 12230-12243, 2013
85. N.Guskos, A. Krupska, J. Typek  
*Pressure study of FMR spectra of  $\gamma$ - $Fe_2O_3$  nanoparticles in copolymer matrix.*  
Reviews on Advanced Materials Science 32, 19-23, 2012
86. J.N. Grima, R. Caruana-Gauci, K.W. Wojciechowski, K. E. Evans  
*Smart hexagonal truss systems exhibiting negative compressibility through constrained angle stretching.*  
Smart Materials and Structures 22, 084015, 2013
87. J.N. Grima, R. Caruana-Gauci, M.R. Dudek, K.W. Wojciechowski, R. Gatt  
*Smart metamaterials with tunable auxetic and other properties.*  
Smart Materials and Structures 22, 084016, 2013
88. A.A. Poźniak, J. Smardzewski, K.W. Wojciechowski  
*Computer simulations of auxetic foams in two dimensions.*  
Smart Materials and Structures 22, 084009, 2013

89. M. Bielejewski, J. Kowalcuk, J. Kaszyńska, A. Łapiński, R. Luboradzki, O. Demchuk, J. Tritt-Goc  
*Novel supramolecular organogels based on a hydrazide derivatives: non-polar solvent self-assembly, selective gelation properties, nanostructure, solvent dynamics.*  
*Soft Matter* 9, 7501, 2013
90. M. Zdanowska-Frączek, K. Hołderna-Natkaniec, P. Ławniczak, Cz. Pawlaczek  
*Molecular dynamics and dielectric conductivity process efficiency in an anhydrous system.  $^1H$  NMR study of benzimidazolium azelate.*  
*Solid State Ionics* 237, 40-45, 2013
91. J. Cielecka-Piątek, K. Lewandowska, B. Barszcz, M. Paczkowska  
*The use of UV, FT-IR and Raman spectra for the identification of the newest penem analogs: solutions based on mathematic procedure and the density functional theory.*  
*Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy* 103, 435-441, 2013
92. K. Lewandowska, B. Barszcz, A. Graja, B. Bursa, A. Biadasz, D. Wróbel, W. Bednarski, S. Waplak, M. Grzybowski, D.T. Gryko  
*Absorption and emission properties of the corrole-fullerene dyad.*  
*Synthetic Metals* 166, 70-76, 2013
93. B. Bursa, D. Wróbel, K. Lewandowska, A. Graja, M. Grzybowski, D.T. Gryko  
*Spectral studies of molecular orientation in corrole-fullerene thin films.*  
*Synthetic Metals* 176, 18-25, 2013
94. A. Kaczmarek, J. Cielecka-Piontek, P. Garbacki, K. Lewandowska, W. Bednarski, B. Barszcz, P. Zalewski, W. Kyeler, I. Oszczapowicz, and A. Jelińska  
*Radiation Sterilization of Anthracycline Antibiotics in Solid State*  
TheScientificWorldJOURNAL Volume 2013, Article ID 258758
95. S. Zeroual, J. Meinnel, A. Łapiński, S. Parker, A. Boudjada, A. Boucekkie  
*Vibrational Spectroscopy and DFT calculations of 1,3-dibromo-2,4,6-trimethylbenzene: Anharmonicity, coupling and methyl group tunneling.*  
*Vibrational Spectroscopy* 67, 27-43, 2013-10-10

## 1.2 PUBLIKACJE W INNYCH CZASOPISMACH WYMIENIONYCH W CZĘŚCI B WYKAZU MINISTRA

- I.Danielewicz-Ferchmin, A.R. Ferchmin  
*O statycznej przenikalności wody w polu elektrycznym do  $10^{11}$  V/m i o tym, jak gęstość wody w polu niekiedy przekracza  $2 \text{ kg}/\text{dm}^3$ .*  
Postępy Fizyki 63, (5), 2012
- Sz. Maćkowiak, D.M. Heyes, D. Dini, A.C. Brańka  
*Methods of Planes Normal Pressure for Slit Geometry in Molecular Dynamice Simulations.*  
Computational Methods in Sciences and Technology **19(3)**, 167, 2013
- K. V. Tretiakov and K. W. Wojciechowski  
*Free Volume Approximation and Equation of State for the fcc Phase of Polydisperse Hard Spheres.*  
Computational Methods in Science and Technology **19(1)**, 59-64 (2013)

## 1.3 PUBLIKACJE W RECENZOWANYCH MATERIAŁACH Z KONFERENCJI MIĘDZYNARODOWYCH UWZGLĘDNIONYCH W WEB OF SCIENCE

- A. Gilman, M. Yablokov, M. Augustyniak-Jabłokow, K. Tadyszak, A. Kuznetsov  
*Polymetrization of 1-Naphthylamine by DC discharge.*  
Journal of Physics Conference Series 406 (2012) 012020

#### 1.4 NNE PRACE RECENZOWANE

1. I. Danielewicz-Ferchmin, A.R.Ferchmin  
*Static permittivity of water in electric field higher than  $10^8 \text{ V m}^{-m}$ for temperaturesand pressures at the vapour-liquid phase boundary.*  
Acta Physicae Superficierum, vol. XII, 2012
2. A.A. Wronkowska, G. Czerniak, A. Wronkowski, P. Kuświk, F. Stobiecki  
*Ellipsometric characterization of Ar+ induced changes in optical and electronic properties of  $\text{Ni}_{80}\text{Fe}_{20}/\text{Au}/\text{Co}/\text{Au}$  multilayers*  
Acta Physicae Superficierum XI, 196-204, 2012
3. P. Balaz, J.Barnaś  
*Current-induced switching in out-of-place polarized dual spin valves.*  
Acta Physicae Superficierum , XII, 1-12, 2012
4. H. Głowiński, J. Dubowik  
*Surface anisotropy in thin films studied by broadband ferromagnetic resonance.*  
Acta Physicae Superficierum, XII, 62-70 (2012)
5. M. Wróblewski, W. Kempinski, Z. Werner, M. Barlak, D. Schmeisser, B. Susła  
*Core Level Photoemission Spectroscopy Study of MgB<sub>x</sub> Surface.*  
Acta Physicae Superficierum, vol. XII, 205-210, 2012
6. A. Krupska  
*Possibility of species extinction in the periodical forced prey-predator model.*  
Journal of Ecology and the Natural Environment 5(5), 64-73, 2013
7. B. Idzikowski, Z. Śniadecki, J.-M. Grenèche  
*Magnetism influenced by structural disorder in melt-spun DyMn<sub>6-x</sub>Ge<sub>6-x</sub>Fe<sub>x</sub>Al<sub>x</sub> ( $x = 2.5, 3$ ).*  
Hyperfine Interactions 219, 69-74, 2013
8. L. N. Korotkov, D. V. Likhovaya, S. I. Sorokov, R. R. Levitskii, A. S. Vdovych, Z. Trybula, S. Łoś, V. S. Zakhvalinskii, A. N. Khmara, E. A. Pilyuk, and E. I. Sitalo  
*Studying the Dielectric, Electromechanical, and Elastic Properties of K<sub>1-x</sub>(NH<sub>4</sub>)<sub>x</sub>H<sub>2</sub>PO<sub>4</sub> Mixed Crystals.*  
ISSN 1062-8738, Bulletin of the Russian Academy of Sciences. Physics, 2013, Vol. 77, No. 8, pp. 1015–1019. © Allerton Press, Inc., 2013  
Original Russian Text published in Izvestiya Rossiiskoi Akademii Nauk. Seriya Fizicheskaya, 2013, Vol. 77, No. 8, pp. 1120–1125
9. W. Kempinski  
Polska Akademia Nauk, Instytut Fizyki Molekularnej  
*Polskie Towarzystwo Węglowe – 25 lat.* str. 27-28
10. A.Krupska  
*Darwin's theory of biological evolution seen from the point of view of modern physics.*  
HYBRIS, 23 (2013) 56-77