

Lista publikacji pracowników Wydziału Fizyki w roku 2015

1. A.Stupakiewicz, M.Pashkevich, A.Maziewski, Non-thermal light-induced spin dynamics in YIG:Co films via the photomagnetic effect, *Book Series: Springer Proceedings in Physics, Ultrafast Magnetism I*, **159** (2015) 194, 5 pkt.
2. K.Rećko, U.Wykowska, F.Damay, W.Olszewski, A.Basa, M.Biernacka, D.Satuła, J.Waliszewski, K.Szymański, Multiferroic properties of GFO ferritenanoparticles, *Acta Cryst. A* **71** (2015) 97, 30 pkt.
3. K.Rećko, L.Dobrzański, J.Waliszewski and K.Szymański, Reconstruction of the Exchange Integrals Map of ScFe₄Al₈ Magnetic Structure, *Acta Phys.Pol. A* **127** (2015) 424, 15 pkt.
4. M.Kisielewski, A.Maziewski, and V.Zablotskii, Three-Dimensional Micromagnetic Simulation of Spatial Distribution of Magnetization in Thick Cobalt Layers, *Acta Phys.Pol. A* **127** (2015) 520, 15 pkt.
5. B.Czerny, J.Modzelewska, F.Petrogalli, W.Pych, T.P.Adhikari, P.T.Życki, K.Hryniwicz, M.Krupa, A.Kurcz, M.Nikołajuk, The dust origin of the Broad Line Region and the model consequences for AGN unification scheme, *Adv.Space Res.* **55** (2015) 1806, 20 pkt.
6. J.L.Cieśliński, L.V.Moroz, C.J.Walczyk, Fast exact digital differential analyzer for circle generation, *Appl.Math.Comput.* **271** (2015) 68, 40 pkt.
7. J.Aasi, ..., P.Jaranowski, ..., J.Zweizig, Searches for continuous gravitational waves from nine young supernova remnants, *Astrophys.J.* **813** (2015) 1, 40 pkt (*20 pkt ze względu na dużą liczbę autorów*).
8. B.Kalska-Szostko, U.Wykowska, D.Satuła and P.Nordblad, Thermal treatment of magnetite nanoparticles, *Beilstein. J.Nanotechnol.* **6** (2015) 1385, 35 pkt.
9. F.Acernese, ..., P.Jaranowski, ..., J-P.Zendri, Advanced Virgo: a second-generation interferometric gravitational wave detector, *Class. Quantum Grav.* **32** (2015) 024001, 35 pkt. (*17.5 pkt ze względu na dużą liczbę autorów*)
10. A.Aasi, ..., P.Jaranowski, ..., J.Zweizig, Characterization of the LIGO detectors during their sixth science run, *Class. Quantum Grav.* **32** (2015) 115012, 35 pkt (*17.5 pkt ze względu na dużą liczbę autorów*).
11. A.Pisarski and P.Jaranowski, Banks of templates for all-sky narrow-band searches of gravitational waves from spinning neutron stars, *Class. Quantum Grav.* **32** (2015) 145014, 35 pkt.
12. B.Kalska-Szostko, U.Wykowska, D.Satuła, Magnetic nanoparticles of core-shell structure, *Colloid Surface A* **481** (2015) 527, 30 pkt.
13. B.Kalska-Szostko, D.Satuła, W.Olszewski, Mossbauer spectroscopy studies of the magnetic properties of ferrite nanoparticles, *Curr.Appl.Phys.* **15** (2015) 226, 30 pkt.
14. J.Przeszowski, J.Żochowski, Light-Front Quantization with Explicit Lorentz Symmetry for Yukawa Model, *Few-Body Systems* **56** (2015) 579, 20 pkt.
15. D.J.Apostolopoulos, M.Gąsowska, C.A.Savvopoulos, T.Skouras, T.Spyridonidis, A.Andrejczuk, P.J.Vassilakos, The impact of transmission-emission misregistration on the interpretation of SPET/CT myocardial perfusion studies and the value of misregistration correction, *Hell.J.Nucl.Med.* **18** (2015) 111, 15 pkt.
16. A.Chizhik, A.Stupakiewicz, A.Zhukov, A.Maziewski, and J.Gonzalez, Multidomain Structures in Magnetic Microwire, *IEEE T.Magn.* **51** (2015) 2002304, 25 pkt.
17. A.Chizhik, A.Stupakiewicz, V.Zablotskii, M.Tekielak, A.Stupakiewicz, A.Zhukov, J.Gonzalez, A.Maziewski, Transformation of magnetic structure in amorphous microwires induced by temperature and high frequency magnetic field, *J.Alloys and Compounds* **632** (2015) 520, 35 pkt.
18. A.Zhukov, A.Chizhik, M.Ipatov, A.Talaat, J.M.Blanco, A.Stupakiewicz, and V.Zhukova, Giant magnetoimpedance effect and domain wall dynamics in Co-rich amorphous microwires, *J.Appl.Phys.* **117** (2015) 043904, 30 pkt.
19. A.Go, Theoretical investigations of an influence of Ti on electronic structure and magnetic properties of half-metallic Fe₂Mn_{1-x}Ti_xSi_{0.5}Al_{0.5} alloys, *J.Magn.Magn.Mater.* **375** (2015) 26, 30 pkt.
20. K.Rećko, L.Dobrzański, J.Waliszewski and K.Szymański, Magnetic anisotropy in the incommensurate ScFe₄Al₈ system, *J.Magn.Magn.Mater.* **388** (2015) 82, 30 pkt.
21. D.Markó, I.Soldatov, M.Tekielak, R.Schäfer, Stray-field-induced Faraday contributions in wide-field Kerr microscopy and -magnetometry, *J.Magn.Magn.Mater.* **396** (2015) 9, 30 pkt.
22. A.Matwiejczyk, M.Pylak, L.Dobrzański, An influence of cobalt impurities distribution on electronic and magnetic properties of Cr₃Si, *J.Magn.Magn.Mater.* **396** (2015) 140, 30 pkt.
23. J.L.Cieśliński, T.Nikiciuk, K.Waśkiewicz, The sine-Gordon equation on time scales, *J.Math.Anal.Appl.* **423** (2015) 1219, 35 pkt.

24. J.L.Cieśliński, A.K.Prykarpatski, Discrete approximations on functional classes for the integrable nonlinear Schrodinger dynamical systems: A symplectic finite-dimensional reduction approach, *J.Math.Anal.Appl.* **430** (2015) 279, 35 pkt.
25. K.Rećko, U.Wykowska, W.Olszewski, G.Andre, J.J.Milczarek, D.Satuła, M.Biernacka, B.Kalska-Szostko, J.Waliszewski, K.Szymański, Synthesis and magnetic properties of the multiferroic GaFeO_3 of orthorombic and hexagonal symmetry, *J.Optolectron. Adv. Mater.* **17** (2015) 1173, 15 pkt.
26. K.Rećko, Exchange integrals of commensurate and incommensurate structures of MFe_4Al_8 ($\text{M}=\text{U}, \text{Sc}$), *J.Optolectron. Adv. Mater.* **17** (2015) 1403, 15 pkt.
27. J.Waliszewski, K.Rećko, Magnetization distribution in noncollinear magnetic systems with mutually perpendicular crystal axes, *J.Optolectron. Adv. Mater.* **17** (2015) 958, 15 pkt.
28. A.Stognij, L.Lutsev, N.Novitskii, A.Bespalov, O.Golikova, V.Ketsko, R.Gieniusz and A.Maziewski, Synthesis, magnetic properties and spin-wave propagation in thin $\text{Y}_3\text{Fe}_5\text{O}_{12}$ films sputtered on GaN-based substrates, *J.Phys. D* **48** (2015) 485002, 35 pkt.
29. P.Mazalski, I.Sveklo, Z.Kurant, K.Ollefs, A.Rogalev, F.Wilhelm, J.Fassbender, L.T.Baczewski, A.Wawro and A.Maziewski, XAS and XMCD studies of magnetic properties modifications of Pt/Co/Au and Pt/Co/Pt trilayers induced by Ga^+ ions irradiation, *J.Synchrotron Rad.* **22** (2015) 753, 35 pkt.
30. K.Szymański, K.Łapiński and J.L.Cieśliński, Determination of the Rieman modulus and sheet resistance of a sample with a hole by the van der Pauw method, *Meas.Sci.Technol.* **26** (2015) 055003, 30 pkt.
31. K.Szymański, K.Łapiński, J.L.Cieśliński, A.Kobus, P.Zaleski, M.Biernacka and K.Perzyńska, Determination of the Rieman modulus and sheet resistivity by a six-point generalization of the van der Pauw method, *Meas.Sci.Technol.* **26** (2015) 085012, 30 pkt.
32. T.Karpiuk, M.Brewczyk, K.Rzążewski, A.Gaj, J.B.Balewski, A.T.Krup, M.Schlagmuller, R.Low, S.Hofferberth, and T.Pfau, Imaging single Rydberg electrons in a Bose-Einstein condensate, *New J.Phys.* **17** (2015) 053046, 40 pkt.
33. E.Dynowska, J.B.Pełka, D.Klinger, R.Minikayev, A.Bartnik, P.Dluzewski, M.Jakubowski, M.Klepka, A.Petruczik, O.H.Seeck, R.Sobierajski, I.Sveklo, A.A.Wawro, A.Maziewski, Structural investigation of ultrathin Pt/Co/Pt trilayer films under EUV irradiation, *Nucl.Instr.Meth. B* **364** (2015) 33, 25 pkt (18.75 pkt ze względu na 14 współautorów).
34. A.Andrejczuk, J.Krzywiński, S.Bajt, Influence of imperfections in a wedged multilayer Laue lens for the focusing of X-rays investigated by beam propagation method, *Nucl.Instr.Meth. B* **364** (2015) 60, 25 pkt.
35. B.Kalska-Szostko, U.Wykowska, D.Satuła, Magnetic nanowires (Fe, Fe-Co, Fe-Ni) - magnetic moment reorientation in respect of wires composition, *Nukleonika* **60** (2015) 63, 15 pkt.
36. D.Satuła, K.Szymański, K.Rećko, W.Olszewski, B.Kalska-Szostko, Determination of hyperfine fields and atomic ordering in NiMnFeGe exhibiting martensic transformation, *Nukleonika* **60** (2015) 127, 15 pkt.
37. M.Prascioli, A.F.G.Leontowich, J.Krzywiński, A.Andrejczuk, H.N.Chapman, and S.Bajt, Fabrication of wedged multilayer Laue lenses, *Opt.Mater.Express* **5** (2015) 748, 35 pkt.
38. N.Tahir, R.Gieniusz, A.Maziewski, R.Bali, K.Potzger, J.Lindner, and J.Fassbender, Evolution of magnetic domain structure formed by ion-irradiation of $\text{B}2\text{-Fe}_{0.6}\text{Al}_{0.4}$, *Optics Express* **23** (2015) 16575, 40 pkt.
39. T.Karpiuk, T.Sowiński, M.Gajda, K.Rzążewski, and M.Brewczyk, Correspondence between dark solitons and the type II excitons of the Lieb-Liniger model, *Phys.Rev. A* **91** (2015) 013621, 35 pkt.
40. K.Gawryluk, M.Gajda, and M.Brewczyk, Density fluctuations in a quasi-one-dimensional Bose gas as observed in free expansion, *Phys.Rev. A* **92** (2015) 043607, 35 pkt.
41. N.Cherroret, T.Karpiuk, B.Grémaud, and Ch.Miniatura, Thermalization of matter waves in speckle potentials, *Phys.Rev. A* **92** (2015) 063614, 35 pkt.
42. V.D.Bessonov, M.Mruckiewicz, R.Gieniusz, U.Guzowska, A.Maziewski, A.I.Stognij, and M.Krawczyk, Magnonic band gaps in YIG-based one-dimensional magnonic crystals: An array of grooves versus an array of metallic stripes, *Phys.Rev. B* **91** (2015) 104421, 35 pkt.
43. K.A.Avchaciov, W.Ren, F.Djurabekova, K.Nordlund, I.Sveklo, A.Maziewski, Modification of Pt/Co/Pt film properties by iron irradiation, *Phys.Rev. B* **92** (2015) 104109, 35 pkt.
44. N.Tahir, R.Bali, R.Gieniusz, S.Mamica, J.Gollwitzer, T.Schneider, K.Lenz, K.Potzger, J.Lindner, M.Krawczyk, J.Fassbender, and A.Maziewski, Tailoring dynamic magnetic characteristics of $\text{Fe}_{60}\text{Al}_{40}$ films through ion irradiation, *Phys.Rev. B* **92** (2015) 144429, 35 pkt.
45. J.Aasi, ..., P.Jaranowski, ..., J.Zweizig, Searching for stochastic gravitational waves using data from the two colocated LIGO Hanford detectors, *Phys.Rev. D* **91** (2015) 022003, 35 pkt (17.5 pkt ze względu na dużą liczbę autorów).

46. J.Aasi, ..., P.Jaranowski, ..., C.C.Wipf, Narrow-band search of continuous gravitational-wave signals from Crab and Vela pulsars in Virgo VSR4 data, *Phys.Rev. D* **91** (2015) 022004, 35 pkt (17.5 pkt ze względu na dużą liczbę autorów).
47. P.Jaranowski, P.Mach, E.Malec, M.Piróg, General-relativistic versus Newtonian: Geometric dragging and dynamic antidragging in stationary self-gravitational disks in the first post-Newtonian approximation, *Phys.Rev. D* **91** (2015) 024039, 35 pkt.
48. J.Aasi, ..., P.Jaranowski, ..., J.Zweizig, Directed search for gravitational waves from Scorpius X-1 with initial LIGO data, *Phys.Rev. D* **91** (2015) 062008, 35 pkt (17.5 pkt ze względu na dużą liczbę autorów).
49. T.Damour, P.Jaranowski, G.Schafer, Fourth post-Newtonian effective one-body dynamics, *Phys.Rev. D* **91** (2015) 084024, 35 pkt.
50. R.A.Janik, G.Plewa, H.Soltanpanahi, and M.Spaliński, Linearized nonequilibrium dynamics in nonconformal plasma, *Phys.Rev. D* **91** (2015) 126013, 35 pkt.
51. P.Jaranowski, G.Schäfer, Derivation of local-in-time fourth post-Newtonian ADM Hamiltonian for spinless compact binaries, *Phys.Rev. D* **92** (2015) 124043, 35 pkt.
52. M.P.Heller, M.Spaliński, Hydrodynamics Beyond the Gradient Expansion: Resurgence and Resummation, *Phys.Rev. Letters* **115** (2015) 072501, (45 pkt zadeklarowane do osiągnięć NCN).
53. Ł.Pawliszak, M.Tekielak and M.Zgirska, Miniature coils for producing pulsed in plane magnetic fields for nanospintronics, *Rev.Sci.Instrum.* **86** (2015) 034711, 30 pkt.
54. A.J.Morgan, M.Prascioli, A.Andrejczuk, J.Krzywiński, A.Meents, D.Pennicard, H.Graafsma, A.Barty, R.J.Bean, M.Barthelmess, D.Oberthuer, O.Yefanov, A.Aquila, H.N.Chapman, S.Bajt, High numerical aperture multilayer Laue lenses, *Sci.Rep.* **5** (2015) 09892, 40 pkt (20 pkt ze względu na dużą liczbę autorów).
55. M.Lewandowski, Z.Miłosz, N.Michalak, R.Ranecki, I.Sveklo, Z.Kurant, A.Maziewski, S.Mielcarek, T.Luciński, S.Jurga, Room temperature magnetism of few-nanometers-thick Fe₃O₄(111) films on Pt(111) and Ru(0001) studied in ambient conditions, *Thin Solid Films* **591** (2015) 285, 30 pkt.
56. M.Nikołajuk, E.Bozzo, C.Ferrigno, INTEGRAL detects a new outburst from the Be/X-ray binary SXP6.85 in the Small Magellanic Cloud, *The Astronomer's telegram*, **7481** (2015) (2 pkt).
57. I.Razdolski, S.Parchenko, A.Stupakiewicz, S.Semin, A.Stognij, A.Kirilyuk, A.Maziewski, and Th.Rasing, Second harmonic generation from a magnetic buried interface enhanced by an interplay of surface plasma resonances, *ACS Photonics*, **2** (2015) 20 (2 pkt).
58. P.Jaranowski, P.Mach, E.Malec, M.Piróg, Virial tests for post-Newtonian stationary black-hole-disk systems, *J.Phys.:Conf.Series* **600** (2015) 012011 (2 pkt).
59. T.Accadia, ..., P.Jaranowski, ..., G.M.Vasuth, Advanced Virgo Interferometer: A second generation detector for gravitational waves observation, *Proc. Sixteenth Lomonosov Conference on Elementary Particle Physics*, Appr. (2015) (2 pkt).
60. A.Branicki, Wyznaczanie wysokości wzgórz na Księżyku, *Fizyka w Szkole* **1** (2015) (0 pkt).
61. A.Branicki, Już tylko wspomnienie, *Urania* **3** (2015) 8 (0 pkt).

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