

Załącznik 2

Wykaz znaczących publikacji wnioskodawcy/ zespołu z ostatnich 3 lat

Rok 2004:

1. S. W. Biernacki and H.-J. Schulz, *Adiabatic temperature change in perovskite manganites*, Phys. Rev. B **70**, 092405 (2004) – 24 punkty
2. A. Suchocki, S. Biernacki, G. Boulon, A. Brenier, M. Potemski, A. Wymolek, *Enhanced Zeeman Effect in GGG:Mn⁴⁺, Ca Luminescence*, Chemical Physics **298**, 267-272 (2004) - 24 punkty
3. A. Kaminska, L. Arizmendi, A. Barcz, E. Łusakowska, A. Suchocki, *Cr³⁺ ions in hydrogenated and proton exchanged lithium niobate crystals*, physica status solidi (a) **201**, 298-303 (2004) - 15 punktów
4. Ya. Zhydachevskii, A. Durygin, A. Suchocki, A. Matkovskii, D. Sugak, G.B. Loutts, M.A. Noginov, *Radiation and Thermally Induced Effects in YAlO₃:Mn Crystals*, J. Luminescence **109**, 39-49 (2004) - 20 punktów
5. T.P.J. Han, F. Jaque, L. Arizmendi, V. Bermúdez, A. Suchocki, *Optical bleaching of Cr³⁺ luminescence in near stoichiometric LiNbO₃ crystals codoped with MgO*, Journal of Luminescence **108**, 55-58 (2004) - 20 punktów
6. A. Mycielski, L. Kowalczyk, A. Szadkowski, B. Chwalisz, A. Wymolek, R. Stępniewski, J.M. Baranowski, M. Potemski, A. Witowski, R. Jakiela, A. Barcz, B. Witkowska, W. Kaliszek, A. Jędrzejczak, A. Suchocki, E. Łusakowska, E. Kamińska, *The chemical vapour transport growth of ZnO single crystals*, J. Alloys and Compounds, **371**, 150 -152 (2004) – 24 punkty
7. T. Aitasalo, A. Durygin, J. Hölsä, M. Lastusaaria, J. Niittykoski, A. Suchocki, *Low Temperature Thermoluminescence Properties of Eu²⁺ and Re³⁺ Doped CaAl₂O₄*, J. Alloys and Compounds **380**, 4 - 8 (2004) - 24 punkty
8. G. Franssen, T. Suski, A. Kaminska, A. Suchocki, K. Kazlauskas, G. Tamulaitis, A. Zukauskas, R. Czarnecki, H. Teisseyre, P. Perlin, M. Leszczyński, M. Boćkowski, I. Grzegory, N. Grandjean, *Observation of localization effects in InGaN/GaN quantum structures by means of application of hydrostatic pressure*, phys. stat. sol. (b) **241**, 3285-3292 (2004) - 15 punktów
9. P. Dittrich, B. Koziarska-Glinka, G. Montemezzani, P. Gunter, *Deep-ultraviolet interband photorefractive in lithium tantalate*, J. Opt. Soc. Am. B **21**, 632 (2004) - 24 punkty
10. P. Przyszlupski, I. Komissarov, W. Paszkowicz, P. Dłużewski, R. Minikayev, M. Sawicki, *Magnetic properties of La_{0.67}Sr_{0.33}MnO₃/YBa₂Cu₃O₇ superlattices*, Physical Review B **69**, 134428 (2004) – 24 punkty
11. W. Paszkowicz, R. Minikayev, P. Piszora, M. Knapp, C. Bähz, J.M. Recio, M. Marqués, P. Mori-Sánchez, L. Gerward, J.Z. Jiang, *Thermal expansion of spinel-type Si₃N₄*, Physical Review B **69**, 52103 (2004) – 24 punkty
12. P. Przyszlupski, I. Komissarov, W. Paszkowicz, P. Dłużewski, R. Minikayev, M. Sawicki, *Structure and magnetic characterization of La_{0.67}Sr_{0.33}MnO₃/YBa₂Cu₃O₇ superlattices*, J. of Applied Physics **95**, 2906 (2004) – 24 punkty
13. W. Paszkowicz, S. Podsiadło, R. Minikayev, *Rietveld-refinement study of aluminium and gallium nitrides*, J. of Alloys and Compounds **382**, 100 (2004) – 24 punkty
14. W. Paszkowicz, M. Knapp, C. Bähz, R. Minikayev, P. Piszora, J.Z. Jiang, R. Bacewicz, *Synchrotron X-ray wavelength calibration using a diamond internal standard: application to low-temperature thermal-expansion studies*, J. of Alloys and Compounds **382**, 107 (2004) – 24 punkty

15. J. Ciosek, W. Paszkowicz, P. Pankowski, J. Firak, U. Stanisławek, Z. Patron, *Modification of zirconium oxide film microstructure during post-deposition annealing*, Vacuum 72, 135 (2004) – 20 punktów
16. K. Kopalko, M. Godlewski, E. Guziejewicz, E. Łusakowska, W. Paszkowicz, J. Domagała, E. Dynowska, A. Szczerbakow, A. Wojcik, M.R. Phillips, *Monocrystalline thin films of ZnSe and ZnO grown by atomic layer epitaxy*, Vacuum 74, 269 (2004) – 20 punktów

Rok 2005

1. S.W. Biernacki, B. Clerjaud, *Thermally driven low spin/high spin phase transitions in solids*, Phys. Rev. B 72, 024406 (2005) - 24 punkty
2. M. Ramirez, L. Bausa, S.W. Biernacki, A. Kaminska, A. Suchocki, M. Grinberg, *Influence of hydrostatic pressure on radiative transition probability of the intrashell 4f transitions Yb³⁺ ions in lithium niobate crystals*, Phys. Rev. B 72, 224104 (2005) - 24 punkty
3. D. Galanciak, M. Grinberg, W. Gryk, S. Kobayakov, A. Suchocki, G. Boulon and A. Brenier, *Influence of high pressure on the luminescence transitions of Mn⁴⁺-doped gadolinium gallium garnet*, J. Phys.: Condens. Matter 17, 7185-7197 (2005) - 24 punkty
4. Ya. Zhydachevskii, A. Durygin, A. Suchocki, A. Matkovskii, D. Sugak, P. Bilski and S. Warchol, *Mn-doped YAlO₃ crystal: a new potential TLD phosphor*, NIMB 227, 545-550 (2005) - 24 punkty
5. B.J. Kowalski, B.A. Orłowski, M. Pietrzyk, P. Kaczor, K. Kopalko, S. Mickievicius, and R.L. Johnson, *Band structure of Mn/ZnTe studied by angle-resolved photoelectron spectroscopy*, APP(A) 108, 735 (2005) – 15 punktów
6. Y.T. Liu, P. Sitarek, Y.S. Huang, F. Firszt, S. Łęgowski, H. Męczyńska, A. Marasek, W. Paszkowicz, K.K. Tiong, *Temperature dependence of the edge excitonic transitions of the wurtzite Cd_{1-x}Be_xZn_ySe crystals*, Journal of Applied Physics 98, 083519 (2005)
7. M. Klepka, K. Ławniczak-Jabłońska, M. Jabłoński, A. Wolska, R. Minikayev, W. Paszkowicz, A. Przepiera, Z. Spolnik, R. Van Grieken, *Combined XRD, EPMA and X-ray absorption study of mineral ilmenite used in pigments production*, Journal of Alloys & Compounds, vol.401, 281 (2005) – 24 punkty
8. W. Paszkowicz, J.A. Leiro, *Rietveld refinement study of pyrite crystals*, Journal of Alloys & Compounds, 401, 289-295 (2005) – 24 punkty
9. W. Paszkowicz, *Application of a powder diffractometer equipped with a strip detector and a Johansson monochromator to phase analysis and structure refinement*, Nuclear Instruments and Methods in Physics Research Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 551, 162 (2005) – 24 punkty
10. Ya. Zhydachevskii, A. Durygin, A. Suchocki, A. Matkovskii, D. Sugak, P. Bilski and S. Warchol, *Mn-doped YAlO₃ crystal: a new potential TLD phosphor*, Nuclear Instruments and Methods in Physics Research Section B (NIMB) 227, 545-550 (2005) – 24 punkty

Rok 2006

1. S. Kobayakov, D. Galanciak, A. Kamińska, A. Suchocki, and M. Malinowski, *Nd³⁺ doped Yttrium Aluminum Garnet crystal as a near-infrared pressure sensor for diamond anvil cells*, Appl. Phys. Lett. **88**, 234102 (2006) – 24 punkty
2. M.O Ramírez, L.E. Bausá and J. García Solé, A. Kaminska and A. Suchocki, S. Kobayakov, *High pressure induced ferroelectric phase transition in the Yb³⁺:Sr_{0.6}Ba_{0.4}Nb₂O₆ crystal at helium liquid temperature*, Phys. Rev. B. **74**, 174113 (2006) – 24 punkty
3. S. Biernacki, *Temperature-induced spin-state transitions in LaCoO₃: A two-level model*. Phys. Rev. B. **74**, 184420 (2006) – 24 punkty
4. G. Franssen, T. Suski, P. Perlin, H. Teisseyre, A. Khachapuridze, L. H. Dmowski, J. A. Plesiewicz, A. Kamińska, M. Kurouchi, Y. Nanishi, H. Lu, W. Schaff, *Band-to-band character of photoluminescence from InN and In-rich InGaN revealed by hydrostatic pressure studies*, Applied Physics Letters **89**, 121915 (2006) – 24 punkty
5. A. Suchocki, W. Paszkowicz and A. Kamińska, A. Durygin and S. K. Saxena, L. Arizmendi and V. Bermudez, *Influence of Stoichiometry on Phase Transition Pressure of LiNbO₃*, Appl. Phys. Lett. **89**, 261908 (2006) – 24 punkty
6. I. Stefaniuk, A. Matkovskii, C. Rudowicz, A. Suchocki, Z. Wilamowski, T. Lukasiewicz, Z. Gałazka, *Electron paramagnetic resonance studies of cobalt and rare-earth impurity ions in YAlO₃*, J. Phys. Cond. Matter. **18**, 4751 (2006) – 24 punkty
7. Ya. Zhydachevskii, A. Suchocki, D. Sugak, A. Luchechko, M. Berkowski, S. Warchol, R. Jakiela, *Optical observation of the recharging processes of manganese ions in YAlO₃:Mn crystals under radiation and thermal treatments*, J. Phys. Cond. Matter. **18**, 5389-5403 (2006) – 24 punkty
8. Ya. Zhydachevskii, D. Galanciak, S. Kobayakov, M. Berkowski, A. Kamińska, A. Suchocki, Ya. Zakharko, A. Durygin, *Photoluminescence studies of Mn⁴⁺ ions in YAlO₃ crystals at ambient and high pressure*, J. Phys.: Cond. Matter. **18**, 11385 – 11396 (2006) – 24 punkty
9. I.A. Kowalik, B.J. Kowalski, P. Kaczor, B.A. Orłowski, E. Lusakowska, R.L. Johnson, L. Houssiau, J. Brison, I. Grzegory, S. Porowski, *Resonant photoemission study of Ti interaction with GaN surface*, Surface Science **600**, 873-879 (2006) – 24 punkty
10. A. Wójcik, K. Kopalko, M. Godlewski, E. Guziewicz, R. Jakiela, R. Minikayev, W. Paszkowicz, *Magnetic properties of ZnMnO films grown at low temperature by atomic layer deposition*, Applied Physics Letters **89**, 051907 (2006) – 24 punkty
11. J.B. Pełka, M. Brust, P. Gierłowski, W. Paszkowicz, N. Schell, *Structure and conductivity of self-assembled films of gold nanoparticles*, Applied Physics Letters **89**, 063110 (2006)
12. W. Paszkowicz, *Properties of a genetic algorithm extended by a random self-learning operator and asymmetric mutations: a convergence study for a task of powder-pattern indexing*, Analytica Chimica Acta **566**, 81 (2006) – 24 punkty
13. A. Petrouchik, L.T. Baczewski, W. Paszkowicz, R. Minikayev, J. Kaźmierczak, A. Ślawska-Waniewska, *Structural and magnetic properties of Cr/Gd multilayers*, Journal of Alloys and Compounds, **423**, 260 (2006) – 24 punkty
14. P. Przyśłupski, A. Tsarou, P. Dłużewski, W. Paszkowicz, R. Minikayev, K. Dybko, M. Sawicki, B. Dąbrowski, C.W. Kimball, *Interplay of superconductivity and ferromagnetism in YBa₂Cu₃O₇/La_{1-x}Sr_xMnO₃ heterostructures*, Supercondor Science and Technology **19**, S38 (2006) – 20 punktów
15. R.J. Iwanowski, M.H. Heinonen, W. Paszkowicz, R. Minikaev, T. Story, B. Witkowska, *X-ray photoelectron study of Sn_{1-x}Mn_xTe semimagnetic semiconductors*, Applied Surface Science **252**, 3632 (2006) – 20 punktów