

LISTA PUBLIKACJI 2019

LIST of PUBLICATIONS

KSIĄŻKI, MONOGRAFIE i ARTYKUŁY PRZEGLĄDOWE

BOOKS, MONOGRAPHS & REVIEWS

1. J. HANUZA, (Editor)
Jakość życia – Środowiskowe aspekty życia. [Quality of Life: Environmental Aspects of Life.]
(Wrocław: Uniwersytet Ekonomiczny 2019) 126 pp. [in Polish]. [ISBN 978-83-7695-731-9]
2. J. HANUZA,
Wprowadzenie: Wpływ nauki i technologii na poziom życia mieszkańców województwa i kraju.
[Introduction: Influence of Science and Technology on the Level of Life of the Voivodship's and Country's Inhabitants.]
In: *Jakość życia – Środowiskowe aspekty życia.* [Quality of Life: Environmental Aspects of Life.]
ed by J. HANUZA (Wrocław: Uniwersytet Ekonomiczny 2019) pp. 7–12 [in Polish]. [ISBN 978-83-7695-731-9]
3. K. ZAWISZA, P. SOBIERAJSKA, R.J. WIGLUSZ,
Nanotechnologia w zastosowaniach biomedycznych. [Nanotechnology in Biomedical Applications.]
In: *Jakość życia – Środowiskowe aspekty życia.* [Quality of Life: Environmental Aspects of Life.]
ed by J. HANUZA (Wrocław: Uniwersytet Ekonomiczny 2019) pp. 71–84 [in Polish]. [ISBN 978-83-7695-731-9]

ARTYKUŁY W CZASOPISMACH NAUKOWYCH

ARTICLES IN SCIENTIFIC JOURNALS

4. A. Abbasi, M. Najafi, J. JANCZAK, K. Van Hecke,
Mo(VI) and W(VI) Complexes as Heterogeneous Catalysts for Degradation of Azo Dyes.
J. Environ. Chem. Eng. **7**₁ (2019) # 102 865 (8). [DOI]
5. K. ADAMSKA, J. OKAL, W. Tylus,
Stable Bimetallic Ru–Mo / Al₂O₃ Catalysts for the Light Alkane Combustion: Effect of the Mo Addition.
Appl. Catal. B **246** (2019) 180–94. [DOI]
6. H. Ahankar, A. Ramazani, K. Ślepokura, T. Lis, V. KINZHYBALO,
Magnetic Cobalt Ferrite Nanoparticles Functionalized with Citric Acid as a Green Nanocatalyst for One-Pot Three-Component Sonochemical Synthesis of Substituted 3-Pyrrolin-2-ones.
Res. Chem. Intermed. **45**₁₀ (2019) 5 007–25. [DOI]
7. A. Albalawi, Ch. Brilliant, A. Chiasera, H. Gebavi, R. Balda, M. Ferrari, W. Blanc, W. Albalawi, H. Hung, A. Quandt, A. ŁUKOWIAK, S. Taccheo,
Analytical Modelling of Tm-Doped Tellurite Glass Including Cross-Relaxation Process.
Opt. Mater. **87** (2019) 29–34. [DOI]
7th Int. Worksh. on Photoluminescence in Rare Earths (PRE) ROME, IT, 2017.11 29 –.12 02
8. M. Alicka, P. SOBIERAJSKA, K. Kornicka, R.J. WIGLUSZ, K. Marycz,
Lithium Ions (Li⁺) and Manohydroxyapatite (nHAp) Doped with Li⁺ Enhance Expression of Late Osteogenic Markers in Adipose-Derived Stem Cells. Potential Theranostic Application of nHAp Doped with Li⁺ and Co-doped with Europium (III) and Samarium (III) Ions.
Mater. Sci. Eng. C **99** (2019) 1257–73. [DOI]

9. A.Anand, R.K.Veena, M.Manjuladevi, V.S.Veena, **YU.S. KOSHKID'KO**, S.Sagar,
A Study on the Magnetocaloric Effect in Ti Doped Manganites $Gd_{0.7}Sr_{0.3}Mn_{1-x}Ti_xO_3$
($x = 0, 0.1,$ and 0.15).
J. Magn. Magn. Mater. **471** (2019) 537–43. [\[DOI\]](#)
10. Tran Kim Anh, Nguyen Thanh Huong, Pham Thi Lien, Do Khanh Tung, Vu Duc Tuc, Nguyen Duc Van,
W. STREK, Le Quoc Minh,
Great Enhancement of Monodispersity and Luminescent Properties of $Gd_2O_3 : Eu$ and $Gd_2O_3 : Eu@Silica$ Nanospheres.
Mater. Sci. Eng. B **241** (2019) 1–8. [\[DOI\]](#)
11. F.M.Anjalin, N.Kanagathara, **M.K. MARCHEWKA**, V.Mohankumar,
Crystal Structure, HIRSHFELD Surface Analysis and Vibrational Spectral Studies on p -Nitroanilinium p -Toluene Sulphonate Single Crystal.
J. Mol. Struct. **1183** (2019) 78–86. [\[DOI\]](#)
12. F.M.Anjalin, N.Kanagathara, **M.K. MARCHEWKA**, T.Srinivasan,
Structural, Spectroscopic and HIRSHFELD Surface Analysis of Anilinium Malonate.
Asian J. Chem. **31**₄ (2019) 868–72. [\[DOI\]](#)
13. M.Anjomshoa, M.Torkzadeh-Mahani, M.Sahihi, C.Rizzoli, M.Ansari, **J. JANCZAK**, S.S.Esfahani,
F.Ataei, M.Dehkhodaei, B.Amirheidari,
Tris-Chelated Complexes of Nickel(II) with Bipyridine Derivatives: DNA Binding and Cleavage, BSA Binding, Molecular Docking, and Cytotoxicity.
J. Biomol. Struct. Dyn. **37**₁₅ (2019) 3 887–904. [\[DOI\]](#)
14. M.Antoniadou, **A.PILCH-WRÓBEL**, Ch.Riziotis, **A.BEDNARKIEWICZ**, E.Tanasă,
Th.Krasia-Christoforou,
Fluorescent Electrospun PMMA Microfiber Mats with Embedded $NaYF_4 : Yb / Er$ Upconverting Nanoparticles.
Method. Appl. Fluoresc. **7** (2019) # 03 4002 (10). [\[DOI\]](#)
15. M.Antoszczak, D.Steverding, M.Sulik, **J. JANCZAK**, A.Huczyński,
Anti-trypanosomal Activity of Doubly Modified Salinomycin Derivatives.
Eur. J. Med. Chem. **173** (2019) 90–98. [\[DOI\]](#)
16. **V.APINYAN, T.K. KOPEĆ**,
Excitonic Tunneling in the AB-Bilayer Graphene JOSEPHSON Junctions.
J. Low Temp. Phys. **194**_{3/4} (2019) 325–59. [\[DOI\]](#)
17. F.Armetta, Ch.Defilippi, C.Giordano, E.Caponetti, **Ł.MARCINIAK, D. HRENIAK**, M.L.Saladino,
Influence of Cerium Content and Heat Treatment on $Ce : YAG @ Glass Wool$ Nanostructures.
J. Nanopart. Res. **21**₇ (2019) # 152 (9). [\[DOI\]](#)
18. F.Armetta, M.L.Saladino, C.Giordano, Ch.Defilippi, **Ł.MARCINIAK, D. HRENIAK**, E.Caponetti,
Non-conventional $Ce : YAG$ Nanostructures via Urea Complexes.
Sci. Rep. **9** (2019) # 3368 (12). [\[DOI\]](#)
19. A.Aryal, **YU. KOSHKID'KO**, I.Dubenko, C.F.Sánchez-Valdés, J.L.Sánchez Llamazares, E.Lähderanta,
S.Pandey, A.Granovsky, **J. ĆWIK**, S.Stadler, Naushad Ali,
Direct and Indirect Measurements of the Magnetic and Magnetocaloric Properties of $Ni_{0.895}Cr_{0.105}MnGe_{1.05}$ Melt-Spun Ribbons in High Magnetic Fields.
J. Magn. Magn. Mater. **488** (2019) # 165 359 (4). [\[DOI\]](#)
20. L.Asgharnejad, A.Abbasi, M.Najafi, **J. JANCZAK**,
Synthesis and Structure of Three New Alkaline Earth Metal–Organic Frameworks with High Thermal Stability as Catalysts for KNOEVENAGEL Condensation.
Cryst. Growth Des. **19**₅ (2019) 2 679–86. [\[DOI\]](#)

21. L.Asgharnejad, A.Abbasi, M.Najafi, **J. JANCZAK**,
One-, Two- and Three-Dimensional Coordination Polymers Based on Copper Paddle-Wheel SBUs as Selective Catalysts for Benzyl Alcohol Oxidation.
J. Solid State Chem. **277** (2019) 187–94. [\[DOI\]](#)
22. K.Bachosz, **K. SYNORADZKI**, M.Staszak, M.Pinelo, A.S.Meyer, J.Zdarta, T.Jesionowski,
Bioconversion of Xylose to Xylonic Acid via Co-immobilized Dehydrogenases for Conjoint Cofactor Regeneration.
Bioorg. Chem. **93** (2019) # 102 747 (10). [\[DOI\]](#)
23. **J. BARAN**, N.A.Davydova, **M. DROZD**,
Hydrogen-Bonded 2-Benzylphenol and Its Crystalline Polymorphism.
Phys. Scr. **94** (2019) # 08 5403 (7). [\[DOI\]](#)
24. **T.J. BEDNARCHUK**, W.Hornfeck, **V. KINZHYBALO**, ZhengYang Zhou, M.Dušek, **A.PIETRASZKO**,
The Structures and Phase Transitions in 4-Amino-pyridinium Tetra-aqua-bis-(sulfato)-Iron(III), (C₅H₇N₂)[Fe^{III}(H₂O)₄(SO₄)₂].
Acta Cryst. B **75**₆ (2019) 1144–51. [\[DOI\]](#)
25. **A.BEDNARKIEWICZ**, E.Chan, **A.KOTULSKA**, **Ł.MARCINIAK**, **K. PROROK**,
Photon Avalanche in Lanthanide Doped Nanoparticles for Biomedical Applications: Super-Resolution Imaging.
Nanoscale Horiz. **4**₄ (2019) 881–89. [\[DOI\]](#)
26. B.Belan, M.Manyako, **K. PASIŃSKA**, M.Demchyna, R.E.Gladyshevskii,
Crystal Structure of the Dy₃Ni_{11.83}Si_{3.98} Compound.
Solid State Phenom. **289** (2019) 29–34. [\[DOI\]](#)
21st Int.Conf.on Solid Compounds of Transition Elements (SCTE2018) VIENNA, AT, 2018.03 25–29
27. A.Bensaddek, H.Akkari, **V. KINZHYBALO**,
A Novel Layered Neodymium Squarate MOF Intercalating Free Ammonium and Squarate Ions {(NH₄)₂[Nd₂(H₂O)₁₀(C₄O₄)₃]C₄O₄}_n : Synthesis, Crystal Structure and Thermal Decomposition.
J. Inorg. Organomet. Polym. Mater. **29**₁ (2019) 302–7. [\[DOI\]](#)
28. **И.В. Беркутов**, В.В.Андриевский, Ю.А.Колесниченко, О.А.МIRONOV,
Квантовые эффекты в германиевой квантовой яме со сверхвысокой подвижностью носителей заряда. [Quantum Effects in a Germanium Quantum Well with Ultrahigh Carrier Mobility.]
Физ. Низк. Темп. **45**₁₁ (2019) 1415–22 [in Russian].
Engl. in: *Low Temp. Phys.* **45**₁₁ (2019) 1202–8. [\[DOI\]](#)
29. **O. BEZKROVNYI**, **P. KRASZKIEWICZ**, I.Krivtsov, J.Quesada, S.Ordóñez, **L.KEPIŃSKI**,
Thermally Induced Sintering and Redispersion of Au Nanoparticles Supported on Ce_(1-x)Eu_xO₂ Nanocubes and Their Influence on Catalytic CO Oxidation.
Catal. Commun. **131** (2019) # 105 798 (?). [\[DOI\]](#)
30. J.Bławat, **P. SWATEK**, Xin Gui, RongYing Jin, WeiWei Xie,
Antiferromagnetic Semiconductor Eu₃Sn₂P₄ with Sn–Sn Dimer and Crown-Wrapped Eu.
J. Mater. Chem. C **7**₄₀ (2019) 12 650–56. [\[DOI\]](#)
31. **V. BOIKO**, J.Zeler, **M. MARKOWSKA**, **Z. DAI**, **A.GERUS**, P.Bolek, E.Zych, **D. HRENIAK**,
Persistent Luminescence from Y₃Al₂Ga₃O₁₂ Doped with Ce³⁺ and Cr³⁺ after X-ray and Blue Light Irradiation.
J. Rare Earths **37**₁₁ (2019) 1200–5. [\[DOI\]](#)
32. **B. BONDZIOR**, **P.J. DEREŃ**,
The Multi-site Emission of Eu³⁺ in Ba₂M(BO₃)₂ (M = Mg, Ca) Solid-Solution.
J. Lumin. **213** (2019) 151–57. [\[DOI\]](#)

33. I.Bryndal, J.Lorenc, **L.MACALIK**, J.Michalski, W.Sąsiadek, T.Lis, **J. HANUZA**,
Crystal Structure, Vibrational and Optic Properties of 2-N-Methylamino-3-Methylpyridine N-Oxide – Its X-ray and Spectroscopic Studies as well as DFT Quantum Chemical Calculations.
J. Mol. Struct. **1195** (2019) 208–19. [DOI]
34. K.Buchkov, M.Valkovski, **D. GAJDA**, K.Nenkov, E.Nazarova,
Inter-granular Effects at High Magnetic Fields of Cuprate and Iron Chalcogenide Superconducting Materials.
J. Phys. Conf. Ser. **1186**₁ (2019) # 01 2004 (7). [DOI]
20th Int.Sch.on Condensed Matter Physics, VARNA, BG, 2018.09 03–06
35. B.Burtan-Gwizdała, M.Reben, J.Cisowski, El-S.Yousef, **R. LISIECKI**, I.Grelowska,
Spectroscopic Properties of Er³⁺-Doped Fluorotellurite Glasses Modified by Nb₂O₅ and WO₃.
Opt. Appl. **49**₃ (2019) 393–402. [DOI]
36. T.A.Butcher, J.Hornung, T.Förster, M.Uhlarz, J.Klotz, I.Sheikin, J.Wosnitza, **D. KACZOROWSKI**,
Fermi Surface Investigation of the Semimetal TaAs₂.
Phys. Rev. B **99** (2019) # 24 5112 (6). [DOI]
37. **M.A.CHAIKA**, P.Dłużewski, K.Morawiec, A.Szczepańska, K.Jabłońska, G.Mancardi, **R. TOMALA**,
D. HRENIAK, **W. STRĘK**, N.A.Safronova, A.G.Doroshenko, S.V.Parkhomenko, O.M.Vovk,
The Role of Ca²⁺ Ions in the Formation of High Optical Quality Cr⁴⁺, Ca : YAG Ceramics.
J. Eur. Ceram. Soc. **39**₁₁ (2019) 3344–52. [DOI]
38. M.Chaika, W.Paszkwicz, **W. STRĘK**, **D. HRENIAK**, **R. TOMALA**, N.Safronova, A.Doroshenko,
S.Parkhomenko, P.Dłużewski, M.Kozłowski, O.Vovk,
Influence of Cr Doping on the Phase Composition of Cr, Ca : YAG Ceramics by Solid State Reaction Sintering.
J. Am. Ceram. Soc. **102**₄ (2018) 2104–15. [DOI]
39. **M.A.CHAIKA**, **R. TOMALA**, **W. STRĘK**, **D. HRENIAK**, P.Dłużewski, K.Morawiec,
P.V.Mateychenko, A.G.Fedorov, A.G.Doroshenko, S.V.Parkhomenko, K.Leśniewska-Matys,
D.Podnieszński, A.Kozłowska, G.Mancardi, O.M.Vovk,
Kinetics of Cr³⁺ to Cr⁴⁺ Ion Valence Transformations and Intra-Lattice Cation Exchange of Cr⁴⁺ in Cr,Ca:YAG Ceramics Used as Laser Gain and Passive Q-Switching Media.
J. Chem. Phys. **151** (2019) # 13 4708 (10). [DOI]
40. **G. CHAJEWSKI**, **P. WIŚNIEWSKI**, **D. GNIDA**, **A.P. PIKUL**, **D. KACZOROWSKI**,
Crystal Growth and Physical Properties of the YPd₂Si₂ Superconductor.
Cryst. Growth Des. **19**₅ (2019) 2557–63. [DOI]
41. A.Chiasera, C.Meroni, F.Scotognella, Y.G.Boucher, G.Galzerano, **A.ŁUKOWIAK**, D.Ristić,
G.Speranza, S.Valligatla, S.Varas, L.Žur, M.Ivanda, G.C.Righini, S.Taccheo, R.Ramponi, M.Ferrari,
Coherent Emission from Fully Er³⁺-Doped Monolithic 1-D Dielectric Microcavity Fabricated by rf-Sputtering.
Opt. Mater. **87** (2019) 107–11. [DOI]
42. V.B.Chzhan, I.S.Tereshina, E.A.Tereshina-Chitrová, G.S.Burkhanov, G.A.Politova, **H. DRULIS**,
Magnetocaloric Properties of Hydrogenated Gd, Tb and Dy.
J. Magn. Magn. Mater. **470** (2019) 41–45. [DOI]
2nd Int. Baltic Conf.on Magnetism (IBCM) SVETLOGORSK, KO, RU, 2017.08 20–24
43. **B. CICHY**, **A.OLEJNICZAK**, **O. BEZKROVNYI**, **L.KEPIŃSKI**, **W. STRĘK**,
Defects Mediated Charge Disturbance in Quantum-Confined Ag_xS / AgInS₂ Random Alloys – Toward Slowly Decaying Quantum Dot Emitters.
J. Alloy. Compd. **798** (2019) 290–99. [DOI]

44. **K. CIESIELSKI, K. SYNORADZKI, I. WOLAŃSKA, P. STUGLIK, D. KACZOROWSKI,**
High-Temperature Thermoelectric Properties of Half-HEUSLER Phases $\text{Er}_{1-x}\text{Ho}_x\text{NiSb}$.
Mater. Today: Proc. **8**₂ (2019) 562–66. [\[DOI\]](#)
 15th Eur.Conf.on Thermoelectrics (ECT 2017) PADUA, IT, 2017.09 25–27
45. **A.CIUPA-LITWA, M. PTAK, J. HANUZA, E.Kucharska, K.Beć,**
Comparative Studies of Vibrational Properties and Phase Transitions in Perovskite-Like Frameworks of $[(\text{C}_3\text{H}_7)_4\text{N}][\text{M}(\text{N}(\text{CN})_2)_3]$ with $M = \text{Mn, Co, Ni}$.
J. Raman Spectrosc. **50**₁₀ (2019) 1561–71. [\[DOI\]](#)
46. **J. ĆWIK, YU.KOSHKID'KO, N.Kol'chugina, K.Nenkov, N.A.de Oliveira,**
Thermal and Magnetic Effects in Quasi-Binary $\text{Tb}_{1-x}\text{Dy}_x\text{Ni}_2$ ($x = 0.25, 0.5, 0.75$) Intermetallics.
Acta Mater. **173** (2019) 27–33. [\[DOI\]](#)
47. M.Czaja, **R. LISIECKI,**
Luminescence of Agrellite Specimen from the Kipawa River Locality.
Minerals (Basel) **9**₁₂ (2019) # 752 (15). [\[DOI\]](#)
48. M.Czaja, **R. LISIECKI, M.Kądziołka-Gaweł, A.Winiarski, T.Krzykawski,**
The Afterglow Effect of Mn-Bearing Natural $\text{LiAlSi}_2\text{O}_6$ Spodumene Crystals.
Opt. Mater. **96** (2019) # 109 321 (8). [\[DOI\]](#)
49. Z.Czapla, **J. JANCZAK, O.Czupiński, J.Przesławski, M.Crofton,**
Structural Phase Transition and Ferroelasticity in $(\text{H}_2\text{NNH}_3)_3\text{CdBr}_5$ Crystal.
J. Phys. Chem. Solids **124** (2019) 94–99. [\[DOI\]](#)
50. P.Dąbrowski, M.J.Kulus, A.Cieślik, Z.Domagała, **R.J. WIGLUSZ, P.Kuropka, J.Kuryszko,**
A.Thannhauser, Ł.Szleszkowski, P.M.Wojtulek, D.Soliński, P.Dziegiel,
A Case of Syphilis with High Bone Arsenic Concentration from Early Modern Cemetery (Wrocław, Poland).
Open Life Sci. **14**₁ (2019) 427–39. [\[DOI\]](#)
51. **Z. DAI, V. BOIKO, M. MARKOWSKA, A.GERUS, K. GRZESZKIEWICZ, J. HÖLSÄ, M.L.Saladino, D. HRENIAK,**
Optical Studies of $\text{Y}_3(\text{Al, Ga})_5\text{O}_{12} : \text{Ce}^{3+}, \text{Cr}^{3+}, \text{Nd}^{3+}$ Nano-Phosphors Obtained by the PÉCHINI Method.
J. Rare Earths **37**₁₁ (2019) 1132–36. [\[DOI\]](#)
52. N.T.Dang, D.P.Kozlenko, D.N.Petrov, **J. ĆWIK, G.Kim, W.H.Shon, J.S.Rhyee, S.C.Yu,**
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Magnetic Field Driven Critical Behavior in Bulk Gd.
J. Appl. Phys. **125** (2019) # 15 3903 (8). [\[DOI\]](#)
53. **D. DAS, M. DASZKIEWICZ, D. GNIDA, A.HACKEMER†, M.Werwiński, A.Szajek, D. KACZOROWSKI,**
Study on CePtIn_4 Grown in a Platelet-Like Morphology.
Solid State Commun. **302** (2019) # 113 717 (5). [\[DOI\]](#)
54. **D. DAS, D. GNIDA, D. KACZOROWSKI,**
Anisotropic Magnetotransport and Magnetic Phase Diagrams of the Antiferromagnetic Heavy-Fermion Superconductor $\text{Ce}_3\text{PdIn}_{11}$.
Phys. Rev. B **99** (2019) # 05 4425 (7). [\[DOI\]](#)
55. **D. DAS, D. GNIDA, P. WIŚNIEWSKI, D. KACZOROWSKI,**
Magnetic Field-Driven Quantum Criticality in Antiferromagnetic CePtIn_4 .
Proc. Natl. Acad. Sci. USA **116**₄₁ (2019) 20 333–38. [\[DOI\]](#)

56. **D. DAS, D. KACZOROWSKI,**
Ferromagnetic KONDO Lattice Behavior in Ce₁₁Pd₄In₉.
J. Magn. Magn. Mater. **471** (2019) 315–20. [\[DOI\]](#)
57. P.G.Derakhshandeh, S.Abednatanzi, K.Leus, **J. JANCZAK**, R.Van Deun, P.Van Der Voort, K.Van Hecke,
Ce(III)-Based Frameworks: From 1D Chain to 3D Porous Metal–Organic Framework.
Cryst. Growth Des. **19**₁₂ (2019) 7096–105. [\[DOI\]](#)
58. M.Dobrzyński, K.Herman, E.Bryła, K.Fita, K.Dudek, M.Kowalczyk-Zajęc, M.Szymonowicz, Z.Rybak, M.Korczyński, **R.J. WIGLUSZ,**
The Heat Risk During Hardening of Dental Glass-Ionomer Cements Using a Light-Curing.
J. Therm. Anal. Calorim. **135**₆ (2019) 3123–28. [\[DOI\]](#)
59. M.Dobrzyński, P.Kuroпка, A.Leśków, K.Herman, M.Tarnowska, **R.J. WIGLUSZ,**
Co-expression of the Aryl Hydrocarbon Receptor and Estrogen Receptor in the Developing Teeth of Rat Offspring after Rat Mothers' Exposure to 2,3,7,8-Tetrachlorodibenzo-*p*-Dioxin and the Protective Action of α -Tocopherol and Acetylsalicylic Acid.
Adv. Clin. Exp. Med. **28**₇ (2019) 993–1000. [\[DOI\]](#)
60. M.Dobrzyński, P.Kuroпка, M.Tarnowska, K.Dudek, M.Styczyńska, A.Leśków, **S. TARGOŃSKA, R.J. WIGLUSZ,**
Indirect Study of the Effect of α -Tocopherol and Acetylsalicylic Acid on the Mineral Composition of Bone Tissue in the Offspring of Female Rats Treated with 2,3,7,8-Tetrachlorodibenzo-*p*-Dioxin: Long-Term Observations.
RSC Adv. **9**₁₄ (2019) 8016–24. [\[DOI\]](#)
61. M.Dobrzyński, P.Kuroпка, M.Tarnowska, M.Styczyńska, K.Dudek, A.Leśków, **S. TARGOŃSKA, R.J. WIGLUSZ,**
The Protective Effect of α -Tocopherol on the Content of Selected Elements in the Calvaria for Exposed Hens to TCDD in the Early Embryonic Period.
Biol. Trace Elem. Res. **190**₂ (2019) 517–25. [\[DOI\]](#)
62. M.Dobrzyński, M.Pajęczkowska, J.Nowicka, A.Jaworski, P.Kosior, M.Szymonowicz, P.Kuroпка, Z.Rybak, Z.A.Bogucki, J.Filipiak, **S. TARGOŃSKA, A.CIUPA-LITWA, A.HAN, R.J. WIGLUSZ,**
Study of Surface Structure Changes for Selected Ceramics Used in the CAD/CAM System on the Degree of Microbial Colonization, *in vitro* Tests.
BioMed Res. Int. **2019** (2019) # 9130806 (13). [\[DOI\]](#)
63. **J. DRABIK, Ł.MARCINIAK,**
The Influence of Eu³⁺ Concentration on the Spectroscopic Properties of YAG : Ti, Eu³⁺ Nanocrystalline Luminescent Thermometer.
J. Lumin. **208** (2019) 213–17. [\[DOI\]](#)
64. A.Druzhinin, I.Ostrovskii, Yu.Khoverko, **K. ROGACKI,**
RASHBA Interaction in Polysilicon Layers SemOI-Structures.
J. Electron. Mater. **48**₆ (2019) 4934–38. [\[DOI\]](#)
65. A.DRUZHININ, I.OSTROVSKII, YU.KHOVERKO, N.Liakh-Kaguy,
Quantization in Magnetoresistance of Strained InSb Whiskers.
Физ. Низк. Темп. **45**₅ (2019) 599–604. Also in: *Low Temp. Phys.* **45**₅ (2019) 513–17. [\[DOI\]](#)
66. A.DRUZHININ, I.OSTROVSKII, YU.KHOVERKO, N.Liakh-Kaguy,
Strain-Induced BERRY Phase in GaSb Microcrystals.
J. Low Temp. Phys. **196**_{3/4} (2019) 375–85. [\[DOI\]](#)

67. A.DRUZHININ, I.OSTROVSKII, YU.KHOVERKO, N.Shcherban, A.Lukianchenko,
Spin-Related Phenomena in Nanoscale Si, ⟨B, Ni⟩ Whiskers.
J. Magn. Magn. Mater. **473** (2019) 331–34. [\[DOI\]](#)
IEEE 8th Int.Conf.on Nanomaterials – Applications & Properties (NAP) ODESA, UA, 2018.09 09–14
68. A.Dzimitrowicz, G.C. diCenzo, **P. SWATEK**, P.Cyganowski, A.Stencel, D.Pogoda, P.Jamroz, P.Pohl,
**Size-Defined Synthesis of Magnetic Nanorods by *Salvia hispanica* Essential Oil with
Electromagnetic Excitation Properties Useful in Microwave Imaging.**
J. Magn. Magn. Mater. **480** (2019) 87–96. [\[DOI\]](#)
69. **K. ELŻBIECIAK-PIECKA**, **C. MATUSZEWSKA**, **Ł.MARCINIAK**,
**Step by Step Designing of Sensitive Luminescent Nanothermometers Based on Cr³⁺, Nd³⁺
Co-doped La_{3-x}Lu_xAl_{5-y}Ga + yO₁₂ Nanocrystals.**
New J. Chem. **43**₃₂ (2019) 12 614–22. [\[DOI\]](#)
70. N.Fattahi, A.Ramazani, H.Ahankar, P.A.Asiabi, **V. KINZHYBALO**,
**Tetramethylguanidine-Functionalized Fe₃O₄ / Chloro-Silane Core–Shell Nanoparticles:
An Efficient Heterogeneous and Reusable Organocatalyst for Aldol Reaction.**
Silicon **11**₃ (2019) 1441–50. [\[DOI\]](#)
71. N.Fattahi, A.Ramazani, **V. KINZHYBALO**,
**Imidazole-Functionalized Fe₃O₄ / Chloro-Silane Core–Shell Nanoparticles: An Efficient
Heterogeneous Organocatalyst for Esterification Reaction.**
Silicon **11**₄ (2019) 1745–54. [\[DOI\]](#)
72. A.A.Fedorchuk, Yu.Slyvka, **V. KINZHYBALO**, I.Kityk, J.Łędryka, K.Ozga, M.Mys'kiv,
**Copper(I) π-Coordination Compounds with Allyl Derivatives of Disubstituted
Pseudothiohydantoin: Synthesis, Structure Investigation and Nonlinear Optical Features.**
J. Coord. Chem. **72**_{19–21} (2019) 3 222–36. [\[DOI\]](#)
73. A.A.Fedorchuk, Yu.I.Slyvka, **V. KINZHYBALO**, T.Lis, M.G.Mys'kiv,
**An Unusual Diverse Coordination of Silver(I) with N-Allylthiohydantoin Ligand in the Presence
of Benzene- and p-Toluenesulfonate Anions.**
Inorg. Chim. Acta **484** (2019) 79–86. [\[DOI\]](#)
74. **D. GAJDA**,
Analysis Method of High-Field Pinning Centers in NbTi Wires and MgB₂ Wires.
J. Low Temp. Phys. **194**_{1/2} (2019) 166–82. [\[DOI\]](#)
75. B.Georgieva, T.Koutzarova, S.Kolev, K.Krezhov, D.Kovacheva, Ch.Ghelev, B.Vertruyen,
LAN M. TRAN, **A.J. ZALESKI**,
Study of Y-Type Hexaferrite Ba_{0.5}Sr_{1.5}ZnNiFe₁₂O₂₂ Powders.
AIP Conf. Proc. **2075**₁ (2019) # 16 0032 (?). [\[DOI\]](#)
76. B.Georgieva, S.Kolev, K.Krezhov, Ch.Ghelev, D.Kovachev, B.Vertruyen, R.Closset, **LAN M. TRAN**,
M. BABIJ, **A.J. ZALESKI**, T.Koutzarova,
**Structural and Magnetic Characterization of Y-Type Hexaferrite Powders Prepared by Sol–Gel
Auto-Combustion and Sonochemistry.**
J. Magn. Magn. Mater. **477** (2019) 131–35. [\[DOI\]](#)
9th Joint European Magnetic Symp. (JEMS) MAINZ, DE, 2018.09 03–07
77. S.Gharouel, **Ł.MARCINIAK**, **A.ŁUKOWIAK**, **W. STRĘK**, K.Horchani-Naifer, M.Férid,
**Impact of Grain Size, Pr³⁺ Concentration, and Host Composition on the Non-Contact
Temperature Sensing Abilities of Polyphosphate Nano- and Microcrystals.**
J. Rare Earths **37**₈ (2019) 812–18. [\[DOI\]](#)

78. **P. GŁUCHOWSKI, Ł. MARCINIAK, M. Lastusaari, W. STRĘK,**
Key Factors Tuning Upconversion and Near Infrared Luminescence in Nanosized
 $\text{Lu}_2\text{O}_3 : \text{Er}^{3+}, \text{Yb}^{3+}$.
J. Alloy. Compd. **799** (2019) 481–94. [\[DOI\]](#)
79. **P. GŁUCHOWSKI, K. Oganisian, R. TOMALA, A. ŁUKOWIAK, D. Karpinsky, D. Alikin, A. Kholkin,**
W. STRĘK,
Optical, Dielectric and Magnetic Properties of $\text{La}_{1-x}\text{Nd}_x\text{FeO}_3$ Powders and Ceramics.
Ceramics **2**₁ (2019) 1–12. [\[DOI\]](#)
80. **P. GŁUCHOWSKI, R. TOMALA, R. KOWALSKI, O. Ignatenko, M.E. Witkowski, W. Drozdowski,**
W. STRĘK, W. RYBA-ROMANOWSKI, P. SOLARZ,
“Frozen” Pressure Effect in GGAG : Ce^{3+} White Light Emitting Nanoceramics.
Ceram. Int. **45**_{17A} (2019) 21 870–77. [\[DOI\]](#)
81. P. Godlewska, **L. MACALIK, J. Lorenc, R. LISIECKI, W. RYBA-ROMANOWSKI, J. HANUZA,**
S.M. Kaczmarek, H. Fuks, G. Leniec,
Optical and Magnetic Properties of Neodymium(III) Six-Coordinate Complexes of 2,6-Lutidine
N-Oxide Derivatives.
J. Solid State Chem. **276** (2019) 294–301. [\[DOI\]](#)
82. D.I. Gorbunov, T. Nomura, A.A. Zvyagin, M.S. Henriques, A.V. Andreev, Y. Skourski, G.A. Zvyagina,
R. TRÓC†, S. Zherlitsyn, J. Wosnitza,
Magnetoelastic Coupling Across the Field-Induced Transition of Uranium Mononitride.
Phys. Rev. B **100** (2019) # 02 4417 (7). [\[DOI\]](#)
83. K. Górnicka, E.M. Carnicom, S. Gołąb, M. Łapiński, B. Wiendlocha, WeiWei Xie, **D. KACZOROWSKI,**
R.J. Cava, T. Klimczuk,
 CeIr_3 : Superconductivity in a Phase Based on Tetragonally Close Packed Clusters.
Supercond. Sci. Technol. **32** (2019) # 02 5008 (13). [\[DOI\]](#)
84. K. Górnicka, **D. DAS, S. Gutowska, B. Wiendlocha, M.J. Winiarski, T. Klimczuk, D. KACZOROWSKI,**
Iridium 5d-Electron Driven Superconductivity in ThIr_3 .
Phys. Rev. B **100** (2019) # 21 4514 (7). [\[DOI\]](#)
85. K. Grabas, A. Pawelczyk, **W. STRĘK, E. Szełęg, S. Stręk,**
Study on the Properties of Waste Apatite Phosphogypsum as a Raw Material of Prospective
Applications.
Waste Biomass Valor. **10**₁₀ (2019) 3 143–55. [\[DOI\]](#)
86. A.V. Gribanov, S.V. Gribanova, **D. KACZOROWSKI,**
Polymorphic Modifications of Novel Cerium Germanide $\text{Ce}_{33.3}\text{Ir}_{22.2}\text{Ge}_{44.5}$ (at.%).
J. Alloy. Compd. **808** (2019) # 151 695 (9). [\[DOI\]](#)
87. M. Grodzicki, J.G. Rousset, P. Ciechanowicz, **E. PISKORSKA-HOMMEL, D. Hommel,**
Surface Studies of Physicochemical Properties of As Films on $\text{GaN}(0001)$.
Appl. Surf. Sci. **493** (2019) 384–88. [\[DOI\]](#)
88. M. Grodzicki, J.G. Rousset, P. Ciechanowicz, **E. PISKORSKA-HOMMEL, D. Hommel,**
XPS Studies on the Role of Arsenic Incorporated into GaN .
Vacuum **167** (2019) 73–76. [\[DOI\]](#)
89. **B. GRYGIEL, K. PATUCHA, T.A. ZALESKI,**
Real and Imaginary Part of Conductivity of Strongly Interacting Bosons in Optical Lattices.
Acta Phys. Polon. A **135**₁ (2019) 69–73. [\[DOI\]](#)
 18th Natl [Polish] Conf. on Superconductivity (NKN 2017) KRYNICA MORSKA, PL, 2017.10 08–13

90. N.Gulay, Yu.Tyvanchuk, **M. DASZKIEWICZ**, B.Stel'makhovych, Ya.Kalychak,
Crystal Structure of Sc₃Co_{1.64}In₄ and Sc₁₀Co₉In₂₀ from Single-Crystal Data.
Z. Naturforsch. B: Chem. Sci. **74**₃ (2019) 289–95. [\[DOI\]](#)
91. A.Hilczler, **K. PASIŃSKA**, B.Andrzejewski, M.Matczak, **A.PIETRASZKO**,
Magnetic Properties of Sr_{0.95}Nd_{0.05}Fe_{12-x}Sc_xO₁₉ Hexaferrite Nanocrystals: (*T_{cone}*, *H*, *x*) Phase Diagram.
Ceram. Int. **45**₁ (2019) 1189–95. [\[DOI\]](#)
92. Yu.V.Horbatenko, O.O.Romantsova, O.A.Korolyuk, **A.JEŻOWSKI**, **D. SZEWCZYK**, J.Ll.Tamarit,
A.I.Krivchikov,
Anomalous Behavior of Thermal Conductivity at High Temperatures for Molecular Crystals Composed of Flexible Molecules.
J. Phys. Chem. Solids **127** (2019) 151–57. [\[DOI\]](#)
93. O.R.Hordiichuk, Yu.I.Slyvka, **V. KINZHYBALO**, E.A.Goreshnik, **T.J. BEDNARCHUK**,
O. BEDNARCHUK, J.Jędryka, I.Kityk, M.G.Mys'kiv,
Construction of Heterometallic and Mixed-Valence Copper(I/II) Chloride π -Complexes with 1,2,4-Triazole Allyl-Derivative.
Inorg. Chim. Acta **495** (2019) # 109 012 (9). [\[DOI\]](#)
94. **R. IDCZAK**, R.Konieczny, T.Pikula, Z.Surowiec,
Microstructure and Corrosion Properties of Fe–Cr–Si Alloys Prepared by Mechanical Alloying Method.
Corrosion **75**₆ (2019) 860–68. [\[DOI\]](#)
95. **R. IDCZAK**, **V.H. TRAN**,
⁵⁷Fe MÖSSBAUER and Magnetic Studies of Th₇Co_{2.5} ⁵⁷Fe_{0.5} and Th₇Ni_{2.5} ⁵⁷Fe_{0.5} Superconductors.
J. Phys.: Cond. Matter. **31** (2019) # 49 5802 (8). [\[DOI\]](#)
96. **R. IDCZAK**, **V.H. TRAN**, B.Świątek-Tran, K.Walczak, W.Zajac, J.Molenda,
The Effects of Mn Substitution on the Structural and Magnetic Properties of the NASICON–Type Solid Solution.
J. Magn. Magn. Mater. **491** (2019) # 165 602 (11). [\[DOI\]](#)
97. J.Iwanejko, A.Brol, B.Szyja, **M. DASZKIEWICZ**, E.Wojaczyńska, T.K.Olszewski,
Aminophosphonates and Aminophosphonic Acids with Tetrasubstituted Stereogenic Center: Diastereoselective Synthesis from Cyclic Ketimines.
Org. Biomol. Chem. **17**₃₁ (2019) 7352–59. [\[DOI\]](#)
98. J.Iwanejko, A.Brol, B.Szyja, **M. DASZKIEWICZ**, E.Wojaczyńska, T.K.Olszewski,
Hydrophosphonylation of Chiral Hexahydroquinoxalin-2(1H)-one Derivatives as an Effective Route to New Bicyclic Compounds: Aminophosphonates, Enamines and Imines.
Tetrahedron **75** (2019) 1431–39. [\[DOI\]](#)
99. E.Jamroz, K.Kocot, B.Zawisza, E.Talik, **A.GĄGOR**, R.Sitko,
A Green Analytical Method for Ultratrace Determination of Hexavalent Chromium Ions Based on Micro-Solid Phase Extraction Using Amino-Silanized Cellulose Membranes.
Microchem. J. **149** (2019) # 104 060 (9). [\[DOI\]](#)
100. **J. JANCZAK**,
Water-Involved Hydrogen Bonds in Dimeric Supramolecular Structures of Magnesium and Zinc Phthalocyaninato Complexes.
ACS Omega **4**₂ (2019) 3673–83. [\[DOI\]](#)

101. **J. JANCZAK**,
Supramolecular Diversity in Solid-State Architecture Formed between the 1-(Diaminomethylene) Thiourea and Citric Acid.
J. Mol. Struct. **1182** (2019) 9–21. [\[DOI\]](#)
102. K.Jaroszewski, T.Zhezhera, **P. GŁUCHOWSKI**, **Ł.MARCINIAK**, M.Chrunik, A.Majchrowski, D.Kasprowicz,
Enhanced 1.5 μ Emission of Er³⁺-Doped Multifunctional Bi₂ZnOB₂O₆ Microcrystals.
Dalton Trans. **48**₁₈ (2019) 6 283–90. [\[DOI\]](#)
103. I.Jendoubi, **M. PTAK**, **A.PIKUL**, **J. CHMIELOWIEC**, **A.CIUPA**, **M. MAĆZKA**, M.F.Zid,
Synthesis, Crystal Structure, Phonon, Magnetic and Electrical Properties of New Molybdate Na₂Mn₂(MoO₄)₃.
J. Solid State Chem. **277** (2019) 738–50. [\[DOI\]](#)
104. **A.JEŻOWSKI**, M.A.Strzhemechny, A.I.Krivchikov, O.S.Pyshkin, O.O.ROMANTSOVA, O.A.Korolyuk, D.I.Zloba, Yu.V.Horbatenko, **A.FILATOVA**,
Thermoactivated Heat Transfer Mechanism in Molecular Crystals: Thermal Conductivity of Benzophenone Single Crystals.
AIP Adv. **9** (2019) # 01 5121 (7). [\[DOI\]](#)
105. W.T.Jin, M.Meven, A.P.Sazonov, S.Demirdis, Y.Su, Y.Xiao, **Z. BUKOWSKI**, S.Nandi, Th.Brückel,
Spin Reorientation of the Fe Moments in Eu_{0.5}Ca_{0.5}Fe₂As₂: Evidence for Strong Interplay of Eu and Fe Magnetism.
Phys. Rev. B **99** (2019) # 14 0402R (6). [\[DOI\]](#)
106. W.T.Jin, N.Qureshi, **Z. BUKOWSKI**, Y.Xiao, S.Nandi, **M. BABIJ**, Z.Fu, Y.Su, Th.Brückel,
Spiral Magnetic Ordering of the Eu Moments in EuNi₂As₂.
Phys. Rev. B **99** (2019) # 01 4425 (6). [\[DOI\]](#)
107. **J. JURASZEK**, **Ł. BOCHENEK**, **A. RUDENKO**, M.M.Hosen, **M. DASZKIEWICZ**, Z.Wang, J.Wosnitza, **Z. HENKIE**, **M. SAMSEL-CZEKAŁA**, M.Neupane, **T. CICHOREK**,
Nonsaturating Extreme Magnetoresistance and Large Electronic Magnetostriction in LuAs.
Phys. Rev. Res. **1** (2019) # 03 2016 R (6). [\[DOI\]](#)
108. **D. KACZOROWSKI**, E.Murashova, Zh.Kurenbaeva, A.Gribanov,
Novel Germanide Ce₂RuGe: Synthesis, Crystal Structure and Low-Temperature Physical Properties.
J. Alloy. Compd. **802** (2019) 437–44. [\[DOI\]](#)
109. M.Kalka, N.Markiewicz, **M. PTAK**, E.D.Sone, A.Ożyhar, P.Dobryczycki, M.Wojtaś,
In vivo and in vitro Analysis of Starmaker Activity in Zebrafish Otolith Biomineralization.
FASEB J. **33**₆ (2019) 6 877–86. [\[DOI\]](#)
110. K.J.Kapcia, **R. LEMAŃSKI**, S.Robaszkievicz[†],
Extended FALICOV–KIMBALL Model: Exact Solution for Finite Temperatures.
Phys. Rev. B **99** (2019) # 24 5143 (15). [\[DOI\]](#)
111. M.Karbowiak, **K. MACIEJEWSKA**, Cz.Rudowicz,
Trends in Hamiltonian Parameters Determined by Systematic Analysis of f–d Absorption Spectra of Divalent Lanthanides in Alkali-Halides Hosts: III. CsSrBr₃: Ln²⁺ (Ln = Nd, Sm, Eu, Tm, Yb).
J. Lumin. **215** (2019) # 116 622 (12). [\[DOI\]](#)
For II. & I. see: *ibid.*, **197** & **199** (2018) 66– & 116–, resp. (M.K. & Cz.R.) [\[DOI\]](#); [\[DOI\]](#)
112. D.V.Karpinsky, O.M.Fesenko, M.V.Silibin, S.V.Dubkov, M.Chaika, A.Yaremkevich, **A.ŁUKOWIAK**, **YU.GERASYMCHUK**, **W. STRĘK**, A.Pakalniškis, R.Skaidzius, A.Kareiva, Y.M.Fomichov, V.V.Shvartsman, S.V.Kalinin, N.V.Morozovsky, A.N.Morozovska,
Ferromagnetic-Like Behavior of Bi_{0.9}La_{0.1}FeO₃–KBr Nanocomposites.
Sci. Rep. **9** (2019) # 10417 (10). [\[DOI\]](#)

113. E.Kasprzycka, V.A.Trush, L.Jerzykiewicz, V.M.Amirkhanov, **A.WATRAS**, J.Sokolnicki, O.L.Malta, P.Gawryszewska,
Lanthanide Complexes with Phosphorylated 2-Naphthylsulfonamides Ligands as Electromagnetic Radiation Converters.
Dyes Pigm. **160** (2019) 439–49. [\[DOI\]](#)
3rd Int. Caparica Conf.on Chromogenic and Emissive Materials (IC³EM-2018) CAPARICA (Lisbon, PT, 2018.09 03–06)
114. **L.KĘPIŃSKI, W. MIŚTA, D. SZYMAŃSKI,**
The Mixed-Valence Ce₄Al₂O₁₀ Aluminate.
Solid State Ionics **331** (2019) 1–5. [\[DOI\]](#)
115. L.Kernazhitsky, V.Shymanovska, T.Gavrilkov, V.Naumov, L.Fedorenko, **J. BARAN,**
Dark-Blue Titanium Dioxide: Effect of Phenothiazine on Structural and Optical Properties of Nanocrystalline Anatase TiO₂.
J. Phys. Chem. Solids **126** (2019) 234–41. [\[DOI\]](#)
116. V.Yu.Khudoleeva, V.V.Utochnikova, A.S.Goloveshkin, **Ł.MARCINIAK**, A.V.Knotko, L.S.Lepnev, N.P.Kuzmina,
Surface Modified Ln_xLa_{1-x}F₃ (Ln = Dy, Yb) Nanoparticles: Toward Bright NIR Luminescence.
Dyes Pigm. **160** (2019) 890–97. [\[DOI\]](#)
117. Hoang Thi Khuyen, Nguyen Thanh Huong, Tran Thu Huong, Pham Thi Lien, Do Thi Anh Thu, Nguyen Thi Anh Huong, **W. STREK**, Le Quoc Minh,
Luminescent and Magnetic Properties of Multifunctional Europium(III) Complex Based Nanocomposite.
J. Rare Earths **37**₁₁ (2019) 1237–41. [\[DOI\]](#)
118. Lam Thi Kieu Giang, **Ł.MARCINIAK**, K.K.Žur, Dinh Manh Tien, Nguyen Vu, Nguyen Thanh Binh, Tran Kim Anh, Le Quoc Minh,
Zirconium Metal Organic Framework for Design of Tetragonal Rare Earth-Doped Zirconia Nanoparticles.
J. Rare Earths **37**₁₁ (2019) 1230–36. [\[DOI\]](#)
119. I.I.Kindrat, B.V.Padlyak, **R. LISIECKI**, V.T.Adamiv,
Optical Spectroscopy and Luminescence Properties of a Tm³⁺-Doped LiKB₄O₇ Glass.
J. Non-Cryst. Solids **521** (2019) # 11 9477 (10). [\[DOI\]](#)
120. B.Klimesz, **R. LISIECKI, W. RYBA-ROMANOWSKI,**
Sm³⁺-Doped Oxyfluorotellurite Glasses – Spectroscopic, Luminescence and Temperature Sensor Properties.
J. Alloy. Compd. **788** (2019) 658–65. [\[DOI\]](#)
121. J.Klotz, K.Götze, V.Lorenz, Yu.Prots, H.Rosner, H.Harima, **Ł.BOCHENEK, Z. HENKIE, T. CICHOREK**, I.Sheikin, J.Wosnitza,
FERMI Surface Investigation of the Filled Skutterudite LaRu₄As₁₂.
Phys. Rev. B **100** (2019) # 20 5106 (8). [\[DOI\]](#)
122. **K. KNIEĆ, Ł.MARCINIAK,**
Different Strategies of Stabilization of Vanadium Oxidation States in LaGaO₃ Nanocrystals.
Front. Chem. **7** (2019) # 520 (8). [\[DOI\]](#)
123. **K. KNIEĆ, K. LEDWA, Ł.MARCINIAK,**
Enhancing the Relative Sensitivity of V⁵⁺, V⁴⁺ and V³⁺ Based Luminescent Thermometer by the Optimization of the Stoichiometry of Y₃Al_{5-x}Ga_xO₁₂ Nanocrystals.
Nanomaterials **9**₁₀ (2019) # 1375 (10). [\[DOI\]](#)

124. **A.KOBYLIŃSKA, K. KNIEĆ, K. MACIEJEWSKA, Ł.MARCINIAK,**
The Influence of Dopant Concentration and Grain Size on the Ability to Temperature Sensing Using Nanocrystalline $\text{MgAl}_2\text{O}_4 : \text{Co}^{2+}, \text{Nd}^{3+}$ Luminescent Thermometers.
New J. Chem. **43**₁₅ (2019) 6080–86. [DOI]
125. N.B.Kolchugina, K.Skotnicova, A.A.Lukin, G.S.Burkhanov, O.Zivotsky, M.Kursa, N.A.Dormidontov, P.A.Prokofev, **YU.S. KOSHKIÄĖŔ’KO,** T.Cegan, T.P.Kaminskaya, B.A.Ginzburg,
(Pr,Ho)–Fe–B Magnets for Low-Temperature Applications.
AIP Adv. **9**₁₂ (2019) # 125025 (5). [DOI]
24th Ann.Conf.on Magnetism & Magnetic Materials (NKN 2017) LAS VEGAS, NV, US, 2019.11 04–08
126. **G. KONTRYM-SZNAJD, S.B.Dugdale,**
Comment on “Magnetic Compton scattering study of Laves phase ZrFe_2 and Sc doped ZrFe_2 : Experiment and Green function based relativistic calculations” by Bhatt *et al.*
J. Magn. Magn. Mater. **475** (2019) 798–800. [DOI]
For the orig. paper see: *ibid.* **454** (2018) 125–30. [DOI]
127. **T.K. KOPEĆ,**
Density-Driven Superfluid Transition of the Constrained Bosons on a Lattice.
Phys. Lett. A **383**₁₇ (2019) 2061–64. [DOI]
128. **YU.S. KOSHKID’KO, E.T.Dilmieva, J. ĆWIK, K. ROGACKI, D. KOWALSKA, A.P.Kamantsev, V.V.Koledov, A.V.Mashirov, V.G.Shavrov, V.I.Valkov, A.V.Golovchan, A.P.Sivachenko, S.N.Shevyrtaiov, V.V.Rodionova, I.V.Shchetinin, V.Sampath,**
Giant Reversible Adiabatic Temperature Change and Isothermal Heat Transfer of MnAs Single Crystals Studied by Direct Method in High Magnetic Fields.
J. Alloy. Compd. **798** (2019) 810–19. [DOI]
129. **A.M. KOTULSKA, K. PROROK, A.BEDNARKIEWICZ,**
Spectral Properties of Tm^{3+} - Doped NaYF_4 Up-converting Nanoparticles under Single and Double Photoexcitation Wavelengths.
Method. Appl. Fluoresc. **7** (2019) # 034001 (8). [DOI]
130. J.Kotwiński, M.Marzantowicz, M.Leszczczyńska, **A.GĄGOR, I.Abrahams, F.Krok,**
Polymorphism in $\text{LiN}(\text{CF}_3\text{SO}_2)_2$.
Solid State Ionics **330** (2019) 9–16. [DOI]
131. T.Koutzarova, S.Kolev, K.Krezhov, B.Georgieva, D.Kovacheva, Ch.Ghelev, B.Vertruyen, F.Boschini, A.Mahmoud, **L.M. TRAN, A.ZALESKI,**
Study of the Structural and Magnetic Properties of Co-substituted $\text{Ba}_2\text{Mg}_2\text{Fe}_{12}\text{O}_{22}$ Hexaferites Synthesized by Sonochemical Co-precipitation.
Materials **12**₉ (2019) # 1414 (11). [DOI]
132. A.Kovalenko, P.O.Rublev, L.O.Tcelykh, A.S.Goloveshkin, L.S.Lepnev, A.S.Burlov, A.A.Vashchenko, **Ł.MARCINIAK, A.M.Magerramov, N.G.Shikhaliyev, S.Z.Vatsadze, V.V.Utochnikova,**
Lanthanide Complexes with 2-(Tosylamino)-Benzylidene-N-(Aryloyl)Hydrazones – Universal Luminescent Materials.
Chem. Mater. **31**₃ (2019) 759–73. [DOI]
133. **D. KOWALSKA, E. PISKORSKA-HOMMEL, A.Majchrowski, M. WOŁCYRZ,**
Modal Disorder in Rubidium Tungstoniobate RbNbWO_6 Confirmed by EXAFS.
J. Solid State Chem. **276** (2019) 146–51. [DOI]
134. M.Ksiądzyna, **A.GĄGOR, A.Piecha-Bisiołek, A.Cizman, W.Medycki, R.Jakubas,**
Exploring a Hybrid Ferroelectric with a 1-D Perovskite-Like Structure: bis(Pyrrrolidinium) Pentachloroantimonate(III).
J. Mater. Chem. C **7**₃₃ (2019) 10360–70. [DOI]

135. **R. KUBIAK**, G.Dyrda, K.Ejsmont,
Comparison of Optical Properties of Cr-Doped Bi₁₂TiO₂₀ and Fe-Doped Bi₁₂SiO₂₀.
J. Mol. Struct. **1177** (2019) 209–14. [\[DOI\]](#)
136. B.Kucharczyk, **K. ADAMSKA**, W.Tylus, **W. MIŚTA**, B.Szczygieł, J.Winiarski,
Effect of Silver Addition to LaFeO₃ Perovskite on the Activity of Monolithic La_{1-x}Ag_xFeO₃ Perovskite Catalysts in Methane [and] Hexane Oxidation.
Catal. Lett. **149**₇ (2019) 1919–33. [\[DOI\]](#)
137. B.Kucharczyk, **J. OKAL**, W.Tylus, J.Winiarski, B.Szczygieł,
The Effect of the Calcination Temperature of LaFeO₃ Precursors on the Properties and Catalytic Activity of Perovskite in Methane Oxidation.
Ceram. Int. **45**_{2B} (2019) 2779–88. [\[DOI\]](#)
1st Worksh.on Thermophysical Aspects of Functional Materials & Surfaces (TAFCS-1) CHISINAU, MD, 2017.08 28–31
138. D.S.Kuchin, E.T.Dilmieva, **YU.S. KOCHKID'KO**, A.P.Kamantsev, V.V.Koledov, A.V.Mashirov, V.G.Shavrov, **J. ĆWIK**, **K. ROGACKI**, V.V.Khovaylo,
Direct Measurement of Shape Memory Effect for Ni₅₄Mn₂₁Ga₂₅, Ni₅₀Mn_{41.2}In_{8.8} HEUSLER Alloys in High Magnetic Field.
J. Magn. Magn. Mater. **482** (2019) 317–22. [\[DOI\]](#)
139. А.Г.Кучин, С.П.Платонов, **W. IWASIECZKO**, В.И.Воронин, В.С.Гавико,
Влияние замещения железа хромом на магнитные и структурные свойства (Tm_xPr_{1-x})₂Fe₁₇.
 [Effect of Chromium Substitution for Iron on the Magnetic and Structural Properties of (Tm_xPr_{1-x})₂Fe₁₇.]
Физ. Мет. Металловед. **120**₁₂ (2019) 1235–42 [in Russian]. [\[DOI\]](#)
 Engl. in: *Phys. Met. Metallogr.* **120**₁₂ (2019) 1137–44. [\[DOI\]](#)
140. **M. KURNATOWSKA**, **E. PISKORSKA-HOMMEL**, **P. KRASZKIEWICZ**, **M.J. WINIARSKI**,
New Doubly Doped Cerium Oxide Ce_{1-x-y}Yb_yPd_xO_{2-δ} : The Effect of Ytterbium Doping on Stabilization of Reduced Palladium Species on Doped Ceria Oxide.
Mater. Chem. Phys. **229** (2019) 49–55. [\[DOI\]](#)
141. P.Kuropka, M.Dobrzyński, M.Tarnowska, R.Dymarek, A.Leśków, **R.J. WIGLUSZ**,
Thermographic Evaluation of Experimental Pleurisy Induced by Carrageenan and Modified by 2,3,7,8-Tetrachlorodibenzo-*p*-Dioxin (TCDD).
Acta Bioeng. Biomech. **21**₃ (2019) 23–29. [\[DOI\]](#)
142. P.Kuropka, M.Dobrzyński, M.Tarnowska, M.Styczyńska, K.Dudek, A.Leśków, **R.J. WIGLUSZ**,
The Influence of High Doses of α-Tocopherol on the Content of Selected Trace Elements in the Liver of Developing Chicken Embryos in Experimentally Induced 2,3,7,8-Tetrachlorodibenzo-*p*-Dioxin Intoxication.
Acta Biochim. Polon. **66**₂ (2019) 223–28. [\[DOI\]](#)
143. **K.A.LEDWA**, **L.KEPIŃSKI**, M.Pawlyta,
Thermal Stability and Propane Combustion Activity of Rh_xCe_{1-x}O_{2-y} Nanoparticles Deposited on Functionalized Alumina.
Catal. Sci. Technol. **9**₁₇ (2019) 4633–44. [\[DOI\]](#)
144. **K. LEMAŃSKI**, **M. BABIJ**, **P.J. DEREŃ**,
Upconversion Emission of the GaN Nanocrystals Doped with Rare Earth Ions.
Solid State Sci. **94** (2019) 127–32. [\[DOI\]](#)
145. **K. LEMAŃSKI**, **B. BONDZIOR**, **D. SZYMAŃSKI**, **P.J. DEREŃ**,
Spectroscopic Properties of Gd_xLa_{1-x}AlO₃ Nanocrystals Doped with Pr³⁺ Ions.
New J. Chem. **43**₁₆ (2019) 6242–48. [\[DOI\]](#)

146. G.Leniec, S.M.Kaczmarek, **L.MACALIK**, P.Ropuszyńska-Robak, **J. HANUZA**,
Magnetic Properties of $\text{NaY}_{1-x-y}\text{Ho}_x\text{Yb}_y(\text{WO}_4)_2$: $x = 0.05, y = 0.02$ and $\text{KY}_{1-x-y}\text{Ho}_x\text{Yb}_y(\text{WO}_4)_2$: $x = 0.02, y = 0.01$ Nanopowders Obtained by PECHINI and Hydrothermal Methods.
Chem. Phys. Lett. **715** (2019) 360–66. [\[DOI\]](#)
147. **R. LISIECKI**, M.Głowacki, M.Berkowski, **W. RYBA-ROMANOWSKI**,
Contribution of Energy Transfer Processes to Excitation and Relaxation of Yb^{3+} Ions in $\text{Gd}_3(\text{Al}, \text{Ga})_5\text{O}_{12}$: RE^{3+} , Yb^{3+} ($\text{RE}^{3+} = \text{Tm}^{3+}, \text{Er}^{3+}, \text{Ho}^{3+}, \text{Pr}^{3+}$).
J. Lumin. **211** (2019) 54–61. [\[DOI\]](#)
148. **R. LISIECKI**, **J. KOMAR**, M.Berkowski, **W. RYBA-ROMANOWSKI**,
Effect of Temperature on Up-conversion Phenomena in $\text{Gd}_3(\text{Al}, \text{Ga})_5\text{O}_{12}$ Crystals Co-doped with Yb^{3+} and Tm^{3+} .
J. Lumin. **216** (2019) # 116 721 (8). [\[DOI\]](#)
149. **R. LISIECKI**, **P. SOLARZ**, **J. KOMAR**, M.Głowacki, M.Berkowski, **W. RYBA-ROMANOWSKI**,
Spectroscopic Peculiarities of Excitation and Emission Processes as well as Relaxation Dynamic of Excited States in Doubly and Triply Doped $\text{Gd}_3\text{Ga}_3\text{Al}_2\text{O}_{12}$: Ln^{3+} ($\text{Ln}^{3+} = \text{Eu}^{3+}, \text{Tb}^{3+}, \text{Ce}^{3+}$) Crystals.
Opt. Mater. **88** (2019) 492–99. [\[DOI\]](#)
150. **M. ŁUKASZEWICZ**, **B. CICHY**, Dominika Wawrzyńczyk, **W. STRĘK**,
Optically Driven Tunable Transistor Effect at Matter / Vacuum Interface – Toward Dielectric Optical Transistors.
ACS Appl. Electron. Mater. **1**₇ (2019) 1141–49. [\[DOI\]](#)
151. **M. ŁUKASZEWICZ**, **W. STRĘK**,
Phototransistor Effect in Nanocrystalline Neodymium Aluminum Perovskite (NdAP) under 808 nm Laser Excitation.
Opt. Mater. **89** (2019) 283–67. [\[DOI\]](#)
152. **A.ŁUKOWIAK**, **YU.GERASYMCHUK**, **A.WĘDZYŃSKA**, **L.TAHERSHAMSI**, **R. TOMALA**, **W. STRĘK**, D.Piątek, I.Korona-Głowniak, M.Speruda, A.Kędziora, G.Bugła-Płoskońska,
Light-Activated Zirconium(IV) Phthalocyanine Derivatives Linked to Graphite Oxide Flakes and Discussion on Their Antibacterial Activity.
Appl. Sci. (Basel) **9**₂₀ (2019) # 4447 (9). [\[DOI\]](#)
153. **M. ŁYSIEŃ**, K.Fiączyk, **R. TOMALA**, F.Granek, **W. STRĘK**,
Synthesis and Luminescence of Eu^{3+} Doped Nanocrystalline TiO_2 Spheres.
J. Rare Earths **37**₁₁ (2019) 1121–25. [\[DOI\]](#)
154. **M. MAĆZKA**, I.E.Collings, F.F.Leite, W.Paraguassu,
RAMAN and Single-Crystal X-ray Diffraction Evidence of Pressure-Induced Phase Transitions in a Perovskite-Like Framework of $[(\text{C}_3\text{H}_7)_4\text{N}][\text{Mn}(\text{N}(\text{CN})_2)_3]$.
Dalton Trans. **48**₂₅ (2019) 9 072–78. [\[DOI\]](#)
155. **M. MAĆZKA**, **A.GĄGOR**, **M. PTAK**, **D. STEFAŃSKA**, **L.MACALIK**, **A.PIKUL**, A.Sieradzki,
Structural, Phonon, Magnetic and Optical Properties of Novel Perovskite-Like Frameworks of $\text{TriBuMe}[M(\text{dca})_3]$ ($\text{TriBuMe} = \text{tributylmethylammonium}$; $\text{dca} = \text{dicyanamide}$; $M = \text{Mn}^{2+}, \text{Fe}^{2+}, \text{Co}^{2+}, \text{Ni}^{2+}$).
Dalton Trans. **48**₃₄ (2019) 13 006–16. [\[DOI\]](#)
156. **M. MAĆZKA**, **M. PTAK**,
Simple, Fast and Non-destructive Method for Detection of Dimethylammonium Impurity in Photovoltaic Methylammonium Lead Halides.
Appl. Solid State Chem. **[3]** № 1(6) (2019) 45–48. [\[DOI\]](#)

157. M. MAĆZKA, M. PTAK, A. GAĞOR, A.Sieradzki, P.Peksa, G.Usevicius, M.Simenas, F.Furtado Leite, W.Paraguassu,
Temperature- and Pressure-Dependent Studies of a Highly Flexible and Compressible Perovskite-Like Cadmium Dicyanamide Framework Templated with Protonated Tetrapropylamine.
J. Mater. Chem. C **7**₈ (2019) 2408–20. [DOI]
158. M. MAĆZKA, M. PTAK, A. GAĞOR, D. STEFAŃSKA, A.Sieradzki,
Layered Lead Iodide of [Methylhydrazinium]₂PbI₄ with a Reduced Band Gap: Thermochromic Luminescence and Switchable Dielectric Properties Triggered by Structural Phase Transitions.
Chem. Mater. **31**₂₀ (2019) 8563–75. [DOI]
159. T.L.MAI, V.H. TRAN,
DFT Study of Electronic Structure Properties of SrAFe₄As₄ (A = Rb and Cs) Superconductors.
Comp. Mater. Sci. **156** (2019) 206–14. [DOI]
160. T.L.MAI, V.H. TRAN,
Ab initio Study of Electronic Structure Properties of CaAFe₄As₄ (A = K, Rb, Cs) Superconductors.
Comp. Mater. Sci. **169** (2019) #109114 (10). [DOI]
161. D. MAJCHRZAK, M.Grodzicki, P.Ciechanowicz, J.G.Rousset, E. PISKORSKA-HOMMEL, D.Hommel,
The Influence of Oxygen and Carbon Contaminants on the Valence Band of p-GaN(0001).
Acta Phys. Pol. A **136**₄ (2019) 585–88. [DOI]
 48th Int.Sch.& Conf.on the Physics of Semiconductors “Jaszowiec 2019” SZCZYRK, PL, 2019.06 08–14
162. D.Majchrzak, A.ZALESKI, A.Morawski, M. MAŁECKA, M.Rindfleisch, D. GAJDA,
The Impact of High Pressure, Doping, and the Size of Crystalline Boron Grains on Creation of High-Field Pinning Centers in in situ MgB₂ Wires.
J. Supercond. Nov. Magn. **32**₄ (2019) 845–53. [DOI]
163. D.Majchrzak, A.ZALESKI, A.Morawski, M. MAŁECKA, M.Rindfleisch, D. GAJDA,
The Influence of High Isostatic Pressure on Critical Current Density in C-Doped MgB₂ Wires.
J. Supercond. Nov. Magn. **32**₅ (2019) 1205–12. [DOI]
164. M.A.MAŁECKA,
The Phosphates-Skipped Reaction Products in the Octahedron-Like Yb and Lu-Doped Ceria Synthesis.
Chem. Select **4**₁ (2019) 316–20. [DOI]
165. M.A.MAŁECKA, P. KRASZKIEWICZ, O. BEZKROVNYI,
Catalysis by Shapely Nanocrystals of the Ce_{1-x}Yb_xO_{2-x/2} Mixed Oxides – Synthesis and Phase Stability.
Mater. Charact. (2019) #109796 (11). [DOI]
166. S.Malick, D. DAS, Z.Hossain,
Antiferromagnetic Ordering and KONDO Lattice Behavior in Moderate Heavy Fermion System Ce₃NiSi₃.
J. Magn. Magn. Mater. **482** (2019) 108–12. [DOI]
167. М.Б.Маняко, D. KOWALSKA, Б.Д.Белан, Р.Є.Гладишевський,
Дослідження структури сполуки YbAl₂ методом монокристалу. [Single Crystal Investigation of the YbAl₂ Compound.]
Укр. Хім. Журн. **85**₉ (2019) 25–30 [in Ukrainian]. [DOI]
168. Ł.MARCINIAK, A.BEDNARKIEWICZ, K. TREJGIS, K. MACIEJEWSKA, K. ELŻBIECIAK, K. LEDWA,
Enhancing the Sensitivity of a Nd³⁺, Yb³⁺ : YVO₄ Nanocrystalline Luminescent Thermometer by Host Sensitization.
Phys. Chem. Chem. Phys. **21**₂₀ (2019) 10532–39. [DOI]

169. K.Marycz, A.Śmieszek, J.Trynda, **P. SOBIERAJSKA**, **S. TARGOŃSKA**, **Ł.GROSMAN**, **R.J. WIGLUSZ**,
Nanocrystalline Hydroxyapatite Loaded with Resveratrol in Colloidal Suspension Improves Viability, Metabolic Activity and Mitochondrial Potential in Human Adipose-Derived Mesenchymal Stromal Stem Cells (hASCs).
Polymers **11**₁ (2019) #92 (23). [DOI]
170. **M. MATUSIAK**, **M. BABIŃ**,
Thermoelectric Signature of the Nematic Phase in Hole-Doped Iron-Based Superconductors.
Phys. Rev. B **99** (2019) #17 4507 (6). [DOI]
171. **M. MATUSIAK**, Th.Wolf,
In-plane Transport Anisotropy in a $\text{Ba}_{1-x}\text{K}_x\text{Fe}_2\text{As}_2$ Iron-Based Superconductor.
Supercond. Sci. Technol. **32** (2019) #10 5013 (7). [DOI]
172. **C. MATUSZEWSKA**, **K. ELŻBIECIAK-PIECKA**, **Ł.MARCINIAK**,
Transition Metal Ion-Based Nanocrystalline Luminescent Thermometry in $\text{SrTiO}_3 : \text{Ni}^{2+}, \text{Er}^{3+}$ Nanocrystals Operating in the Second Optical Window of Biological Tissues.
J. Phys. Chem. C **123**₃₀ (2019) 18 646–53. [DOI]
173. **V. MEDVEDIEV**, **M. DASZKIEWICZ**,
Structural, Theoretic and Spectroscopic Analysis of 2-Methyl-5-NitroAniline Salts with Various Inorganic Acids
Acta Cryst. B **75**₆ (2019) 1003–13. [DOI]
174. R.Meitzner, T.Faber, Sh.Alam, A.Amand, R.Roesch, M.Büttner, F.Herrmann-Westendorf, M.Presselt, L.Ciammaruchi, I.Visoly-Fisher, S.Veenstra, A.Diaz de Zerio, XiaoFeng Xu, E.Wang, Ch.Müller, P.Troshin, M.D.Hager, S.Köhn, **M. DUSZA**, M.Krassas, S.Züfle, E.Kymakis, E.A.Katz, S.Berson, F.Granek, M.Manceau, F.Brunetti, G.Polino, U.S.Schubert, M.Lira-Cantu, H.Hoppe,
Impact of P3HT Materials Properties and Layer Architecture on OPV Device Stability.
Sol. Energy Mater. Sol. Cells **202** (2019) #110 151 (17). [DOI]
175. K.Mencel, A.Piecha-Bisiorek, R.Jakubas, **V. KINZHYBALO**, W.Medycki,
Hybrid Organic–Inorganic Bismuth(III)-Based Material $[\text{4-NH}_2\text{C}_5\text{H}_4\text{NH}]_7[\text{BiCl}_6]_2\text{Cl}$. Crystal Structure, Dielectric Properties and Molecular Motions of 4-Aminopyridinium Cations.
J. Mol. Struct. **1179** (2019) 297–303. [DOI]
176. C.Meroni, F.Scotognella, Y.Boucher, **A.ŁUKOWIAK**, D.Ristić, G.Speranza, S.Varas, L.Zur, M.Ivanda, S.Taccheo, R.Ramponi, G.C.Righini, M.Ferrari, A.Chiasera,
Low-Threshold Coherent Emission at 1.5 μm from Fully Er^{3+} Doped Monolithic 1D Dielectric Microcavity Fabricated Using Radio Frequency Sputtering.
Ceramics **2**₁ (2019) 74–85. [DOI]
177. Le Quoc Minh, Tran Kim Anh, Nguyen Duy Hung, Pham Thi Minh Chau, Nguyen Thi Quy Hai, Ho Van Tuyen, Vu Thi Thai Ha, Vu Duc Tu, **W. STREK**,
Upconversion Luminescence of $\text{Gd}_2\text{O}_3 : \text{Er}^{3+}$ and $\text{Gd}_2\text{O}_3 : \text{Er}^{3+}/\text{Silica}$ Nanophosphors Fabricated by EDTA Combustion Method.
J. Rare Earths **37**₁₁ (2019) 1126–31. [DOI]
178. **N. MINIAJLUK**, **B. BONDZIOR**, **D. STEFAŃSKA**, **P.J. DEREŃ**,
 Eu^{3+} Ions in the Highly Symmetrical Octahedral Site in Ba_2MgWO_6 Double Perovskite.
J. Alloy. Compd. **802** (2019) 190–95. [DOI]
179. B.Z.Momeni, N.Fathi, R.Abbasi, **J. JANCZAK**,
Exploiting the Versatility of Pyridyl Ligands for the Preparation of Diorganotin(IV) Adducts: Spectral, Crystallographic and HIRSHFELD Surface Analysis Studies.
Appl. Organomet. Chem. **33**₁₂ (2019) # e5239 (18). [DOI]

180. B.Z.Momeni, N.Fathi, M.Moghadasi, A.Biglari, **J. JANCZAK**,
New Insight into the Reactions of Organoplatinum(II) Complexes with Diorganotin Dichloride and Diisothiocyanate: Oxidative Addition, Reductive Elimination and α -Elimination.
J. Organomet. Chem. **880** (2019) 368–77. [DOI]
181. B.Z.Momeni, N.Fathi, **J. JANCZAK**, Z.Shahsavari,
Dihaloplatinum(II) Complexes Having Diimine Ligands: Crystal Structure, Thermal Properties, Cytotoxicity Effects Against Breast Cancer Cells and Application as a Precursor Towards Nanoparticles.
J. Coordin. Chem. **72**₂ (2019) 619–32. [DOI]
182. A.Morabito, M.Scisciò, **S. VELTRI**, M.Migliorati, P.Antici,
Design and Optimization of a Laser-PIXE Beamline for Material Science Applications.
Laser Part. Beams **37**₄ (2019) 354–63. [DOI]
183. M.Moroni, G.Prando, S.Aswartham, I.Morozov, **Z. BUKOWSKI**, B.Büchner, H.J.Grafe, P.Carretta,
Charge and Nematic Orders in AFe_2As_2 ($A = Rb, Cs$) Superconductors.
Phys. Rev. B **99** (2019) # 23 5147 (7). [DOI]
184. **K. MOSZAK**, D.Pucicki, W.Olszewski, **D. MAJCHRZAK**, J.Serafińczuk, D.Hommel,
Modulated Ammonia Flow – Low Temperature AlN Buffer LP-MOVPE Growth for High Quality AlGaIn Layers.
Acta Phys. Pol. A **136**₄ (2019) 589–92. [DOI]
 48th Int.Sch.& Conf.on the Physics of Semiconductors “Jaszowiec 2019” SZCZYRK, PL, 2019.06 08–14
185. C.Moularas, Y.Georgiou, **K. ADAMSKA**, Y.Deligiannakis,
Thermoplasmonic Heat Generation Efficiency by Nonmonodisperse Core–Shell $Ag^0 @ SiO_2$ Nanoparticle Ensemble.
J. Phys. Chem. C **123**₃₆ (2019) 22 499–510. [DOI]
186. Ch.Moussa, N.Brisset, **G. CHAJEWSKI**, **M. SAMSEL-CZEKAŁA**, P.Boulet, H.Noël, M.Pasturel, **A. PIKUL**, O.Tougait,
Overview of the U_3TGe_5 Family with $T = Ti, V, Cr, Mn, Zr, Nb, Mo, Hf, Ta, W$: Nine New Members, Phase Formation, Stability, Structural and Physical Properties and Electronic Structures.
J. Solid-State Chem. **277** (2019) 260–70. [DOI]
187. Z.Mroczek, A.Morawski, T.Czujko, F.Karaboğa, M.Akdoğan, **A.J. ZALESKI**, **M. MAŁECKA**, T.Cetner, H.Yetiş, **D. GAJDA**, I.Belenli,
Influence of the Lamella Structure and High Isostatic Pressure on the Critical Current Density in *in situ* MgB_2 Wires without a Barrier.
J. Alloy. Compd. **776** (2019) 636–45. [DOI]
188. M.Mulak, **J. MULAK**,
Do We Properly Understand the Fitted Crystal-Field Parameters ?
phys. stat. solidi (b) **256**₁₂ (2019) # 19 00179 (6). [DOI]
189. F.M.Muntyanu, K.Nenkov, **A.J. ZALESKI**, N.Muntean, V.Chistol,
Evolution of Superconductivity and Weak Magnetism in Inclination Interfaces of Bi, Sb and $Bi_{1-x}Sb_x$ ($0.07 \leq x \leq 0.2$) Alloys.
Solid State Commun. **299** (2019) # 113 660 (5). [DOI]
190. M.Musieliak, **A. GAĞOR**, B.Zawisza, E.Talik, R.Sitko,
Graphene Oxide / Carbon Nanotube Membranes for Highly Efficient Removal of Metal Ions from Water.
ACS Appl. Mater. Interf. **11**₃₁ (2019) 28 582–90. [DOI]

191. A.Nikolenko, V.Strelchuk, O.Gnatyuk, **P. KRASZKIEWICZ**, V.Boiko, E.Kovalska, **W MIŚTA**, **R KLIMKIEWICZ**, V.Karbiivskii, G.Dovbeshko,
In situ RAMAN Study of Laser-Induced Stabilization of Reduced Nanoceria (CeO_{2-x}) Supported on Graphene.
J. Raman Spectrosc. **50**₄ (2019) 490–98. [DOI]
192. **А.Николаева**, **Л.Конопко**, И.Гергишан, **K. ROGACKI**, **P. STACHOWIAK**, **А. JEŻOWSKI**, В.Шепелевич, В.Прокошин, С.Гусакова,
Термоэлектрические свойства полуметаллических и полупроводниковых фольг и нитей Bi_{1-x}Sb_x. [Thermoelectric Properties of Semimetal and Semiconductor Bi_{1-x}Sb_x Foils and Wires.]
Физ. Техн. Полупров. **53**₅ (2019) 661–68 [in Russian]. [DOI]
Engl. in: *Semiconductors* **53**₅ (2019) 657–61. [DOI]
16th Int. Conf. on Thermoelectrics and Their Applications (ISCTA 2018) St PETERSBURG, RU, 2018.10 08–12
193. **R.V. NIKONKOV**, **P. STACHOWIAK**, **А. JEŻOWSKI**,
Influence of Different Nanoparticles Embedded in Crystalline Carbon Monoxide Matrix on Heat Transfer in the Nanocomposite.
Физ. Низк. Темп. **45**₃ (2019) 289–93. Also in: *Low Temp. Phys.* **45**₃ (2019) 249–53. [DOI]
12th Int. Conf. on Cryocrystals and Quantum Crystals (CC-2018) WROCLAW, PL, 2018.08 26–31
194. **V.I. NIZHANKOVSKIY**,
Comparison of Optical Properties of Cr-Doped Bi₁₂TiO₂₀ and Fe-Doped Bi₁₂SiO₂₀.
J. Alloy. Compd. **771** (2019) 1036–39. [DOI]
195. **V.I. NIZHANKOVSKIY**, **K. ROGACKI**,
BKT Transition Observed in Magnetic and Electric Properties of YBa₂Cu₃O_{7-δ} Single Crystals.
Phys. Rev. B **100** (2019) # 10 4510 (8). [DOI]
196. R.Nowaczyński, M.Gajc, H.B.Surma, P.Osewski, **A. STRZEP**, **W. RYBA-ROMANOWSKI**, D.A.Pawlak,
Manufacturing of Volumetric Glass-Based Composites with Single- and Double-QD Doping.
Part. Part. Syst. Char. **36**₁ (2019) # 18 001 24 (6). [DOI]
197. **A.OLEJNICZAK**, **B. CICHY**, **W. STREK**,
DFT Calculations of Metal-Organic I–III–VI Semiconductor Clusters: Benchmark of Exchange–Correlation Functionals and Localized Basis Sets.
Comp. Mater. Sci. **163** (2019) 186–95. [DOI]
198. **A.OLEJNICZAK**, **R. TOMALA**, **B. CICHY**, **P. GŁUCHOWSKI**, M.Jakimów, A.Zięba, **L. KĘPIŃSKI**, O.Ignatenko, **W. STREK**,
Laser-Driven Proliferation of sp² – sp³ Changes During Anti-STOKES White Light Emission of μ-Diamonds.
Carbon **146** (2019) 438–46. [DOI]
199. H.Oliveira, **A.BEDNARKIEWICZ**, A.Falk, E.Fröhlich, D.Lisjak, A.Prina-Mello, S.Resch, Ch.Schimpel, I.Vinković-Vrček, E.Wysokińska, H.H.Gorris,
Critical Considerations on the Clinical Translation of Upconversion Nanoparticles (UCNPs): Recommendations from the European Upconversion Network (COST Action CM1403).
Adv. Healthc. Mater. **8**₁ (2019) # 18 01 233 (10). [DOI]
200. E.Ortiz-Rivero, **K. PROROK**, M.Skowicki, DaSheng Lu, **A.BEDNARKIEWICZ**, D.Jaque, P.Haro-González,
Single-Cell Biodetection by Upconverting Microspinners.
Small **15**₄₆ (2019) # 19 04154 (9). [DOI]
201. S.Pandey, **YU.KOSHKID’KO**, I.Dubenko, **J. ĆWIK**, A.Aryal, A.Granovsky, E.Lähderanta, S.Stadler, Naushad Ali,
Adiabatic Temperature Changes at Structural and Magnetic Phase Transitions in Ni₄₅Mn₄₃CoSn₁₁ at High Magnetic Fields.
IEEE Tr. Magn. **55**₂ (2019) # 25 006 04. [DOI]

202. **K. PATUCHA, B. GRYGIEL, T.A.ZALESKI,**
HALL Conductivity of Strongly Interacting Bosons in Optical Lattice.
Acta Phys. Polon. A **135**₁ (2019) 74–77. [DOI]
 18th Natl [Polish] Conf.on Superconductivity (NKN 2017) KRYNICA MORSKA, PL, 2017.10 08–13
203. **O. PAVLOSIUK, D. KACZOROWSKI, P. WIŚNIEWSKI,**
Negative Longitudinal Magnetoresistance as a Sign of a Possible Chiral Magnetic Anomaly in the Half-HEUSLER Antiferromagnet DyPdBi.
Phys. Rev. B **99** (2019) # 12 5142 (7). [DOI]
204. P.Peksa, J.Trzmiel, K.Fedoruk, **A.GĄGOR,** M.Šimėnas, **A.CIUPA,** S.Pawlus, J.Banys, **M. MAĆZKA,** A.Sieradzki,
Impact of the Copper-Induced Local Framework Deformation on the Mechanism of Structural Phase Transition in [(CH₃)₂NH₂][Zn(HCOO)₃] Hybrid Metal–Formate Perovskite.
J. Phys. Chem. C **123**₃₈ (2019) 23 594–603. [DOI]
205. P.Peksa, J.Trzmiel, **M. PTAK,** M.Kostrzewa, R.Szatanik, A.Barascu, D.Enke, A.Sieradzki,
Confinement-Induced Polymorphism in Acetylsalicylic Acid–Nanoporous Glass Composites.
J. Mater. Sci. **54**₁ (2019) 404–13. [DOI]
206. **A.M. PIEKARSKA, T.K. KOPEĆ,**
Quantum Glass of Interacting Bosons with Off-Diagonal Disorder Has a Severe Sign Problem.
Acta Phys. Polon. A **135**₁ (2019) 78–81. [DOI]
 18th Natl [Polish] Conf.on Superconductivity (NKN 2017) KRYNICA MORSKA, PL, 2017.10 08–13
207. D.Pogoda, **J. JANCZAK,** S.Pawlak, M.Zaworotko, V.Videnova-Adrabinska,
Tautomeric Polymorphism of the Neuroactive Inhibitor Kynurenic Acid.
Acta Cryst. C **75**₆ (2019) 793–805. [DOI]
208. P.A.Prokofev, N.B.Kol’chugina, G.S.Burkhanov, A.A.Lukin, **YU.S. KOSHKID’KO,** K.Skotnicova, T.Cegan, O.Zivotsky, M.Kursa, **H. DRULIS, A.HACKEMER[†],**
Multiphase Characterization of Phase Equilibria in the Tb-Rich Corner of the Co–Cu–Tb System.
J. Phase Equilib. Diffus. **40**₃ (2019) 403–12. [DOI]
209. **K. PROROK,** M.Olk, M.Skowicki, A.Kowalczyk, **A.KOTULSKA,** T.Lipiński, **A.BEDNARKIEWICZ,**
Near-Infrared Excited Luminescence and *in vitro* Imaging of HeLa Cells by Using Mn²⁺ Enhanced Tb³⁺ and Yb³⁺ Cooperative Upconversion in NaYF₄ Nanocrystals.
Nanoscale Adv. **1**₉ (2019) 3 463–73. [DOI]
210. **M. PTAK,** I.E.Collings, K.L.Svane, A.Sieradzki, W.Paraguassu, **M. MAĆZKA,**
Pressure-Enhanced Ferroelectric Polarisation in a Polar Perovskite-Like [C₂H₅NH₃]Na_{0.5}Cr_{0.5}(HCOO)₃ Metal–Organic Framework.
J. Mater. Chem. C **7**₂₈ (2019) 8 660–68. [DOI]
211. **M. PTAK,** B.Dziuk, **D. STEFAŃSKA, K. HERMANOWICZ,**
The Structural, Phonon and Optical Properties of [CH₃NH₃]M_{0.5}Cr_xAl_{0.5–x}(HCOO)₃ (M = Na, K; x = 0, 0.025, 0.5) Metal–Organic Framework Perovskites for Luminescence Thermometry.
Phys. Chem. Chem. Phys. **21**₁₅ (2019) 7 965–72. [DOI]
212. **M. PTAK,** B.Pilarek, **A.WATRAS,** P.Godlewska, I.Szczygieł, **J. HANUZA,**
Structural, Vibrational and optical Properties of Eu³⁺-Doped Gd₃NbO₇ Niobates : The Mechanism of Their Structural Phase Transition.
J. Alloy. Compd. **810** (2019) # 151 892 (11). [DOI]
213. **M. PTAK,** K.L.Svane, A.Walsh, W.Paraguassu,
Stability and Flexibility of Heterometallic Formate Perovskites with the Dimethylammonium Cation: Pressure-Induced Phase Transitions.
Phys. Chem. Chem. Phys. **21**₈ (2019) 4 200–8. [DOI]

214. M. PTAK, B.Zarychta, D. STEFAŃSKA, A.CIUPA, W.Paraguassu,
Novel Bimetallic MOF Phosphors with an Imidazolium Cation: Structure, Phonons, High-Pressure Phase Transitions and Optical Response.
Dalton Trans. **48**₁ (2019) 242–52. [DOI]
215. A.Ptok, K.DOMIERACKI, K.J.Kapcia, J.Łażewski, P.T.Jochym, M.Sternik, P.Piekarz, D. KACZOROWSKI,
Electronic and Lattice Properties of Noncentrosymmetric Superconductors ThT₂Si (T = Co, Ir, Ni, Pt).
Phys. Rev. B **100** (2019) # 16 5130 (8). [DOI]
216. M.O.Ramirez, T.T.A.Lummen, I.Carrasco, E.Barnes, U.Aschauer, D. STEFAŃSKA, A.S.Gupta, C.de las Heras, H.Akamatsu, M.Holt, P.Molina, A.Barnes, R.C.Haislmaier, P.J. DEREŃ, C.Prieto, L.E.Bausá, N.A.Spaldin, V.Gopalan,
Emergent Room Temperature Polar Phase in CaTiO₃ Nanoparticles and Single Crystals.
APL Mater. **7**₁ (2019) # 01 1103 (6). [DOI]
217. P. REJNHARDT, J. BARAN, M. DASZKIEWICZ,
Phase Transition in Polar 2-Nitroanilinium Nitrate. Graph-Set Approach of Hydrogen Bonding Patterns and Analysis of Vibrational Spectra.
Spectrochim. Acta A **207** (2019) 313–20. [DOI]
218. R.V.Rodrigues, Ł.MARCINIAK, L.U.Khan, A.A.L.Marins, R. TOMALA, E.J.B.Muri, J.R.Matos, W. STREK,
Synthesis, Photoluminescence Properties and Thermal Investigation by TG-MS of RE(DAS)₃ · xH₂O, [RE = Eu³⁺, Tb³⁺].
J. Rare Earths **37**₁₁ (2019) 1164–69. [DOI]
219. M.Różycka, I.Coronado, K.Brach, J.Olesiak-Bańska, M.Samoć, M.Zarębski, J.Dobrucki, M. PTAK, E.Weber, I.Polishchuk, B.Pokroy, J.Stolarski, A.Ożyhar,
Lattice Shrinkage by Incorporation of Recombinant Starmaker-Like Protein within Bioinspired Calcium Carbonate Crystals.
Chem.-Eur. J. **25**₅₅ (2019) 12 740–50. [DOI]
220. W.Śasiadek, I.Bryndal, J.Lorenc, M. PTAK, J.Cieplik, M.Stolarczyk, T.Lis, J. HANUZA,
Crystal Structure, Conformation, and Vibrational Characteristics of Diethyl 4, 4'-Disulfanediyl bis-(6-Methyl- 2-Phenylpyrimidine- 5-Carboxylate) – A New Pharmaceutical Cure.
Arab. J. Chem. **12**₆ (2019) 881–96. [DOI]
221. S.Sebai, D.Zambon, A.WATRAS, P.J. DEREŃ, A.Megrache, R.Mahiou,
Synthesis and Photoluminescence of Eu³⁺ Activated Alkali Mixed (Li, Na)Y(PO₃)₄ under VUV–UV Excitation.
Opt. Mater. **92** (2019) 217–22. [DOI]
222. S.Sedghiniya, J.Soleimannejad, J. JANCZAK,
The Salt-Cocrystal Spectrum in Salicylic Acid – Adenine: The Influence of Crystal Structure on Proton-Transfer Balance.
Acta Cryst. C **75**₄ (2019) 412–21. [DOI]
223. M.Sikora, K.Marcinkowska, K.Marycz, R.J. WIGLUSZ, A.Śmieszek,
The Potential Selective Cytotoxicity of Poly (L-Lactic Acid)-Based Scaffolds Functionalized with Nanohydroxyapatite and Europium(III) Ions toward Osteosarcoma Cells.
Materials **12**₂₂ (2019) # 3779 (22). [DOI]
224. M.Šimėnas, S.Balčiūnas, A.CIUPA, L.Vilčiauskas, D.Jablonskas, M.Kinka, A.Sieradzki, V.Samulionis, M. MAĆZKA, J.Banyš,
Elucidation of Dipolar Dynamics and the Nature of Structural Phases in the [(CH₃)₂NH₂][Zn(HCOO)₃] Hybrid Perovskite Framework.
J. Mater. Chem. C **7**₂₂ (2019) 6 779–85. [DOI]

225. M.Šimėnas, S.Balčiūnas, A.Gonzalez-Nelson, M.Kinka, **M. PTAK**, M.A. van der Veen, **M. MAĆZKA**, J.Banys,
Preparation and Dielectric Characterization of P(VDF–TrFE) Copolymer-Based Composites Containing Metal–Formate Frameworks.
J. Phys. Chem. C **123**₂₆ (2019) 16 380–87. [DOI]
226. M.Šimėnas, A.Ibenskas, A.Stroppa, **A.GĄGOR**, **M. MAĆZKA**, J.Banys, E.E.Tornau,
Simulation of Structural Phase Transitions in Perovskite Methylhydrazinium Metal–Formate Frameworks: Coupled ISING and POTTS Models.
J. Phys. Chem. C **123**₃₂ (2019) 19 912–19. [DOI]
227. P.Skokowski, **K. SYNORADZKI**, T.Toliński,
Comprehensive Studies of the Transformation between Antiferromagnetic CeCoGe₃ and Heavy Fermion CeFeGe₃ Compounds.
J. Alloy. Compd. **810** (2019) # 151 850 (9). [DOI]
228. P.Skokowski, **K. SYNORADZKI**, M.Werwiński, A.Bajorek, G.Chełkowska, T.Toliński,
Electronic Structure of CeCo_{1-x}Fe_xGe₃ Studied by X-ray Photoelectron Spectroscopy and First-Principles Calculations.
J. Alloy. Compd. **787** (2019) 744–50. [DOI]
229. K.Skotnicová, P.A.Prokofev, N.B.Kolchugina, G.S.Burkhanov, A.A.Lukin, **YU.S. KOSHKID’KO**, T.Cegan, **H. DRULIS**, **T. ROMANOVA**, N.A.Dormidontov,
Application of a Dy₃Co_{0.6}Cu_{0.4}H_x Addition for Controlling the Microstructure and Magnetic Properties of Sintered Nd–Fe–B Magnets.
Materials **12**₂₄ (2019) # 4235 (11). [DOI]
230. A.Śmieszek, K.Marycz, K.Szustakiewicz, B.Kryszak, **S. TARGOŃSKA**, **K. ZAWISZA**, **A. WATRAS**, **R.J. WIGLUSZ**,
New Approach to Modification of Poly-(L-Lactic Acid) with Nano-Hydroxyapatite Improving Functionality of Human Adipose-Derived Stromal Cells (hASCs) through Increased Viability and Enhanced Mitochondrial Activity.
Mater. Sci. Eng. C **98** (2019) 213–26. [DOI]
231. **P. SOBIERAJSKA**, **R.J. WIGLUSZ**,
Influence of the Grain Sizes on STOKES and Anti-STOKES Fluorescence in the Yb³⁺ and Tb³⁺ Ions Co-doped Nanocrystalline Fluorapatite.
J. Alloy. Compd. **785** (2019) 808–18. [DOI]
232. **P. SOBIERAJSKA**, **R.J. WIGLUSZ**,
Influence of Li⁺ Ions on the Physicochemical Properties of Nanocrystalline Calcium–Strontium Hydroxyapatite Doped with Eu³⁺ Ions.
New J. Chem. **43**₃₇ (2019) 14 908–16. [DOI]
233. **P. SOLARZ**, M.Głowacki, **R. LISIECKI**, M.Sobczyk, **J. KOMAR**, **B. MACALIK**, **W. RYBA-ROMANOWSKI**,
Impact of Temperature on Excitation, Emission and Cross-Relaxation Processes of Terbium Ions in GGAG Single Crystal.
J. Alloy. Compd. **789** (2019) 409–15. [DOI]
234. M.Stawowy, M.Róziewicz, E.Szczepańska, J.Silvestre-Albero, **M. ZAWADZKI**, M.Musioł, R.Łuzny, J.Kaczmarczyk, J.Trawczyński, A.Łamacz,
The Impact of Synthesis Method on the Properties and CO₂ Sorption Capacity of UiO-66(Ce).
Catalysts **9**₄ (2019) # 309 (19). [DOI]
235. **M. STEFAŃSKI**, **K. GRZESZKIEWICZ**, **M. PTAK**, **D. HRENIAK**, **W. STRĘK**,
Structural and Optical Characterization of RbLaP₄O₁₂ : Ln³⁺ (Ln³⁺ = Ce³⁺, Nd³⁺, Tm³⁺, or Yb³⁺).
J. Chem. Phys. **150** (2019) # 09 4706 (11). [DOI]

236. M. STEFAŃSKI, M. ŁUKASZEWICZ, D. HRENIAK, W. STRĘK,
Impact of the Synthesis Procedure on the Spectroscopic Properties of Anti-STOKES White Emission Obtained from Sr₂CeO₄ Phosphor.
J. Photochem. Photobiol. A **382** (2019) # 111 855 (7). [\[DOI\]](#)
237. A.Stronski, T.Kavetskiy, L.Revutska, I.Kaban, K.Shportko, J. BARAN, M. TRZEBIATOWSKA,
Stoichiometric Deviations in Bond Distances in the Mixed As₂S₃–As₂Se₃ System: RAMAN Spectroscopy and EXAFS Studies.
J. Non-Cryst. Solids **521** (2019) # 119 533 (6). [\[DOI\]](#)
238. M.A.Strzhemechny, A.I.Krivchikov, A. JEŻOWSKI,
Heat Capacity of Molecular Solids: The Special Case of Cryocrystals.
Фіз. Хімія. Темн. **45**₁₂ (2019) 1524–30.
 Also in: *Low Temp. Phys.* **45**₁₂ (2019) 1290–95. [\[DOI\]](#)
239. V.V.Sumarokov, A. JEŻOWSKI, P. STACHOWIAK, Yu.A.Freiman,
The Thermal Diffusivity of Molecular Cryocrystals.
Фіз. Хімія. Темн. **45**₃ (2019) 391–94. Also in: *Low Temp. Phys.* **45**₃ (2019) 343–46. [\[DOI\]](#)
12th Int.Conf.on Cryocrystals and Quantum Crystals (CC-2018) WROCLAW, PL, 2018.08 26–31
240. V.V.Sumarokov, A. JEŻOWSKI, D. SZEWCZYK, M.I.Bagatski, M.S.Barabashko, A.N.Ponomarev,
 V.L.Kuznetsov, S.I.Moseenkov,
The Low-Temperature Specific Heat of MWCNTs.
Фіз. Хімія. Темн. **45**₃ (2019) 395–403. Also in: *Low Temp. Phys.* **45**₃ (2019) 347–54. [\[DOI\]](#)
12th Int.Conf.on Cryocrystals and Quantum Crystals (CC-2018) WROCLAW, PL, 2018.08 26–31
241. K. SYNORADZKI,
Magnetocaloric Effect in Antiferromagnetic TmNiSn Compound.
J. Magn. Magn. Mater. **482** (2019) 219–23. [\[DOI\]](#)
242. K. SYNORADZKI, K. CIESIELSKI, L. KĘPIŃSKI, D. KACZOROWSKI,
Effect of Secondary LuNiSn Phase on Thermoelectric Properties of Half-HEUSLER Alloy LuNiSb.
Mater. Today: Proc. **8**₂ (2019) 567–72. [\[DOI\]](#)
15th Eur.Conf.on Thermoelectrics (ECT 2017) PADUA, IT, 2017.09 25–27
243. K. SYNORADZKI, K. CIESIELSKI, I.Veremchuk, H.Borrmann, P.Skokowski, D. SZYMAŃSKI,
 Yu.Grin, D. KACZOROWSKI,
Thermal and Electronic Transport Properties of the Half-HEUSLER Phase ScNiSb.
Materials **12**₉ (2019) # 1723 (11). [\[DOI\]](#)
244. K. SYNORADZKI, D. DAS, A.FRĄCKOWIAK, D. SZYMAŃSKI, P.Skokowski, D. KACZOROWSKI,
Study on Magnetocaloric and Thermoelectric Application Potential of Ferromagnetic Compound CeCrGe₃.
J. Appl. Phys. **126** (2019) # 07 5114 (6). [\[DOI\]](#)
245. K. SYNORADZKI, P.Nowotny, P.Skokowski, T.Toliński,
Magnetocaloric Effect in Gd₅(Si, Ge)₄ Based Alloys and Composites.
J. Rare Earths **37**₁₁ (2019) 1218–23. [\[DOI\]](#)
246. B.M.Szczeńniak-Sięga, Sz.Mogilski, R.J. WIGLUSZ, J. JANCZAK, J.Maniewska, W.Malinka,
 B.Filipek,
Synthesis and Pharmacological Evaluation of Novel Arylpiperazine Oxicams Derivatives as Potent Analgesics without Ulcerogenicity.
Bioorg. Med. Chem. **27**₈ (2019) 1619–28. [\[DOI\]](#)
247. P.Szklarz, A.GĄGOR, R.Jakubas, P.Zieliński, A.Piecha-Bisiorek, J.Cichos, M.Karbowiak, G.Bator,
 A.Ciżman,
Lead-Free Hybrid Ferroelectric Material Based on Formamidine: [NH₂CHNH₂]₃Bi₂I₉.
J. Mater. Chem. C **7**₁₀ (2019) 3 003–14. [\[DOI\]](#)

248. **M. SZLAWSKA**,
Spin-Glass Freezing in Single-Crystalline Pr₂NiSi₃.
Intermetallics **115** (2019) # 106 616 (6). [\[DOI\]](#)
249. **A.SZMYRKA-GRZEBYK, A.KOWAL**,
Nowy Międzynarodowy Układ Jednostek Miar SI. [New International System of Measuring Units SI.]
Post. Fizyki **70**₁ (2019) 25–35 [in Polish].
250. **J. SZNAJD**,
Magnetic Phase Transition Induced by an Electric Field in Coupled Spin Chains with Magnetoelectric Interaction.
J. Magn. Magn. Mater. **479** (2019) 254–59. [\[DOI\]](#)
251. K.Szustakiewicz, M.Gazińska, B.Kryszak, M.Grzymajło, J.Pigłowski, **R.J. WIGLUSZ**, M.Okamoto,
The Influence of Hydroxyapatite Content on Properties of Poly(L-Lactide) / Hydroxyapatite Porous Scaffolds Obtained Using Thermal Induced Phase Separation Technique.
Eur. Polym. J. **113** (2019) 313–20. [\[DOI\]](#)
 See also Corrigendum: *ibid.*, **118** (2019) 327-only. [\[DOI\]](#)
252. **K. SZYSZKA, S. TARGOŃSKA**, M.Gazińska, K.Szustakiewicz, **R.J. WIGLUSZ**,
The Comprehensive Approach to Preparation and Investigation of the Eu³⁺-Doped Hydroxyapatite / poly(L-lactide) Nanocomposites: Promising Materials for Theranostics Application.
Nanomaterials **9**₈ (2019) # 1146 (16). [\[DOI\]](#)
253. **S. TARGOŃSKA, K. SZYSZKA**, J.Rewak-Soroczyńska, **R.J. WIGLUSZ**,
A New Approach to Spectroscopic and Structural Studies of the Nano-Sized Silicate-Substituted Hydroxyapatite Doped with Eu³⁺ Ions.
Dalton Trans. **48**₂₃ (2019) 8 303–16. [\[DOI\]](#)
254. **А.В. Терехов, И.В.Золочевский, Л.А.Ищенко, А.Н.Блудов, А. ZALESKI, Е.П.Хлыбов, С.А.Лаченков**,
Магнитное упорядочение и особенности его сосуществования со сверхпроводимостью в Dy_{0.6}Y_{0.4}Rh_{3.85}Ru_{0.15}B₄. [Magnetic Ordering and Features of Its Coexistence with Superconductivity in Dy_{0.6}Y_{0.4}Rh_{3.85}Ru_{0.15}B₄.]
Физ. Низк. Темп. **45**₁₂ (2019) 1467–72 [in Russian].
 Engl. in: *Low Temp. Phys.* **45**₁₂ (2019) 1241–42. [\[DOI\]](#)
255. I.S.Tereshina, L.A.Ivanov, E.A.Tereshina-Chitrova, D.I.Gorbunov, M.A.Paukov, L.Havela, **H. DRULIS**, S.A.Granovsky, M.Doerr, V.S.Gaviko, A.V.Andreev,
Tailoring the Ferrimagnetic-to-Ferromagnetic Transition Field by Interstitial and Substitutional Atoms in the R–Fe Compounds.
Intermetallics **112** (2019) # 106 546 (5). [\[DOI\]](#)
256. I.Tereshina, T.Kaminskaya, L.Ivanov, G.Politova, **H. DRULIS**, D.Gorbunov, M.Paukov, E.Tereshina-Chitrová, A.Andreev,
Structural, Magnetic and Magnetocaloric Properties of NdPrFe₁₄B and Its Hydrides.
J. Phys. Conf. Ser. **1389**₁ (2019) # 01 2094 (7). [\[DOI\]](#)
 7th Euro-Asian Symp. “Trends in Magnetism” (EASTMAG 2019) EKATERINBURG, RU, 2019.09 08–13
257. **R. TOMALA, D. HRENIAK, W. STREK**,
Laser Induced Broadband White Emission of Y₂Si₂O₇ Nanocrystals.
J. Rare Earths **37**₁₁ (2019) 1296–99. [\[DOI\]](#)
258. **R. TOMALA, W. STREK**,
Emission Properties of Nd³⁺ : Y₂Si₂O₇ Nanocrystals under High Excitation Power Density.
Opt. Mater. **96** (2019) # 109 257 (5). [\[DOI\]](#)

259. **P.E. TOMASZEWSKI**,
 Comment on “Role of ytterbium on structural and magnetic properties of $\text{NiCr}_{0.1}\text{Fe}_{1.9}\text{O}_4$ co-precipitated ferrites” by Mushtaq Ahmad, Muhammad Azhar Khan, Azhar Mahmood, Shu-Sen Liu, Adeel Hussain Chughtai, Weng-Chon Cheong, Bilal Akram, Gulfam Nasar [*Ceram. Int.* 44 (2018) 5433–5439.]
Ceram. Int. 45₄ (2019) 5174–only. [DOI]
260. **P.E. TOMASZEWSKI**,
 Comment on and Complement to “Effect of calcination temperature on the degree of polymorphic transformation in Y_2SiO_5 nanopowders synthesized by sol–gel method” by Z.S. Khan *et al.* [*J. Non-Cryst. Solids* 432 (2016) 540–544].
J. Non-Cryst. Solids 525 (2019) #119682 (2). [DOI]
261. **P.E. TOMASZEWSKI**,
 Comment on “Effects of Dy concentration on luminescent properties of $\text{SrAl}_2\text{O}_4 : \text{Eu}$ phosphors” by D.S. Kshatri, Ayush Khare, and Piyush Jha [*Optik* 124 (2013) 2974].
Optik 178 (2019) 710–11. [DOI]
262. **P.E. TOMASZEWSKI**,
 Comment on “Structural and magnetic properties of $\text{Ni}_{0.8}\text{M}_{0.2}\text{Fe}_2\text{O}_4$ ($M = \text{Cu}, \text{Co}$) nano-crystalline ferrites” by K. Vijaya Babu, G. Satyanarayana, B. Sailaja, G.V. Santosh Kumar, K. Jalaiah, M. Ravi [*Results Phys.* 9 (2018) 55–62].
Results Phys. 15 (2019) #102597 (2). [DOI]
263. **P.E. TOMASZEWSKI**,
 Komentarz do artykułu Mariusza W. Majewskiego opublikowanego w *Studia Historiae Scientiarum* 17 (2018), pp. 89–117 [Comment on the paper by Mariusz W. Majewski published in *Studia Historiae Scientiarum* 17 (2018) 89–117.]
Stud. Hist. Sci. 18 (2019) 517–29 [in Polish]. [DOI]
264. **P.E. TOMASZEWSKI**, M. MINIAJLUK, M. ZAWADZKI, J. Trawczyński,
 X-ray Study of Structural Phase Transitions in Nanocrystalline $\text{LaMnO}_{3+\delta}$ Perovskite.
Phase Transit. 90₆ (2019) 525–36. [DOI]
265. Ł. Tomków, S. TROJANOWSKI, M. CISZEK, M. Chorowski,
 Calculation of Inductances and Induced Currents in Cryogenic By-pass Line for SIS100 Particle Accelerator at FAIR.
Arch. El. Eng. 68₃ (2019) 485–96. [DOI]
266. R. Tripathi, D. DAS, P.K. Biswas, D.T. Adroja, A.D. Hillier, Z. Hossain,
 Quantum GRIFFITHS Phase Near an Antiferromagnetic Quantum Critical Point: Muon Spin Relaxation Study of $\text{Ce}(\text{Cu}_{1-x}\text{Co}_x)_2\text{Ge}_2$.
Phys. Rev. B 99 (2019) #224424 (8). [DOI]
267. R. TRÓC[†], Z. GAJEK, M. Pasturel, R. WAWRYK, M. SAMSEL-CZEKAŁA,
 Magnetism and Magnetotransport of Cage-Type Compound $\text{UO}_2\text{Al}_{10}$.
Intermetallics 107 (2019) 60–74. [DOI]
268. M. TRZEBIATOWSKA, A. GAĞOR, L. MACALIK, P. Peksa, A. Sieradzki,
 Phase Transition in the Extreme: A Cubic-to-Triclinic Symmetry Change in Dielectrically Switchable Cyanide Perovskites.
Dalton Trans. 48₄₂ (2019) 15830–40. [DOI]
269. M. TRZEBIATOWSKA, M. MAĆZKA, M. PTAK, L. Giriūnas, S. Balčiūnas, M. Šimėnas, D. Klose, J. Banys,
 Spectroscopic Study of Structural Phase Transition and Dynamic Effects in a $[(\text{CH}_3)_2\text{NH}_2][\text{Cd}(\text{N}_3)_3]$ Hybrid Perovskite Framework.
J. Phys. Chem. C 123₁₈ (2019) 11840–49. [DOI]

270. M. TRZEBIATOWSKA, M. ПТАК,
The Mechanism of Phase Transitions in Azide Perovskites Probed by Vibrational Spectroscopy.
Spectrochim. Acta A **214** (2019) 184–91. [DOI]
271. A.M.Trzeciak, P.Wójcik, R. LISIECKI, YU.GERASYMCHUK, W. STRĘK, J.Legendziewicz,
Palladium Nanoparticles Supported on Graphene Oxide as Catalysts for the Synthesis of Diarylketones.
Catalysts **9**₄ (2019) # 319 (12). [DOI]
272. M.Tuomisto, Z.Giedraityte, L.Mai, A.Devi, V. BOIKO, K. GRZESZKIEWICZ, D. HRENIAK,
M.Karppinen, M.Lastusaari,
Up-converting ALD/MLD Thin Films with Yb³⁺, Er³⁺ in Amorphous Organic Framework.
J. Lumin. **213** (2019) 310–15. [DOI]
273. A.Tursina, V.Chernyshev, D. KACZOROWSKI,
Crystal Structure and Low-Temperature Physical Properties of a Novel Cerium Compound CePd_{4.6}Al_{8.4}.
J. Alloy. Compd. **790** (2019) 447–51. [DOI]
274. А.Вахула, О.Лесюк, Є.-О.Лаба, В.Лучечко, І.Максимович, О.Мотовильський,
V.KINZHVALO, P.Литвин, Ю.Горак,
Синтез похідних N-циклогексилімідазо[2,1-b][1,3,4]тіадісол ([1,3]тіасол)- 5-амінів з арилфурановим фрагментом. [Synthesis of N-cyclohexyl-6-(5-aryl-2-furyl)imidazo [2,1-b][1,3,4]thiadiazol ([1,3]thiazol)-5-amine Derivatives.]
Вісн. Львів. ун-ту. Сер. хім. No. 60₂ (2019) 297–301 [in Ukrainian]. [DOI]
275. K.Walczak, B.Gędziorowski, A.Kulka, W.Zajęc, M.Ziąbka, R. IDCZAK, V.H. TRAN, J.Molenda,
Exploring the Role of Manganese on Structural, Transport, and Electrochemical Properties of NASICON- Na₃Fe_{2-y}Mn_y(PO₄)₃ — Cathode Materials for Na-Ion Batteries.
ACS Appl. Mater. Interf. **11**₄₆ (2019) 43 046–55. [DOI]
276. A.WATRAS, M. WUJCZYK, M.Roecken, K.Kucharczyk, K.Marycz, R.J. WIGLUSZ,
Investigation of Pyrophosphates KYP₂O₇ Co-Doped with Lanthanide Ions Useful for Theranostics.
Nanomaterials **9**₁₁ (2019) # 1597 (17). [DOI]
277. D.Wawrzyńczyk, B. CICHY, J.K.Zareba, U.Bazylińska,
On the Interaction Between Up-converting NaYF₄ : Er³⁺, Yb³⁺ Nanoparticles and Rose Bengal Molecules Constrained within the Double Core of Multifunctional Nanocarriers.
J. Mater. Chem. C **7**₄₇ (2019) 15 021–34. [DOI]
278. K.Winiarska, R. KLIMKIEWICZ, W.Tylus, A.Sobianowska-Turek, J.Winiarski, B.Szczygieł, I.Szczygieł,
Study of the Catalytic Activity and Surface Properties of Manganese–Zinc Ferrite Prepared from Used Batteries.
J. Chem. **2019** (2019) # 5 430 904 (14). [DOI]
279. M.J. WINIARSKI, K.Bilińska,
High Thermoelectric Power Factors of p-Type Half-HEUSLER Alloys YNiSb, LuNiSb, YPdSb, and LuPdSb.
Intermetallics **108** (2019) 55–60. [DOI]
280. M.J. WINIARSKI, D. KOWALSKA,
Electronic Structure of REN (RE = Sc, Y, La, and Lu) Semiconductors by MBJLDA Calculations.
Mater. Res. Express **6** (2019) # 09 5910 (9). [DOI]
281. M.J. WINIARSKI, P.J. DEREŃ,
Electronic Structure of A₂B'B''O₆-Type (A = Ca, Sr, Ba; B' = Mg, Zn; B'' = Mo, W) Double Perovskite Oxides.
Opt. Mater. **90** (2019) 95–98. [DOI]

282. A.Wojciechowska, **J. JANCZAK**, T.Rojek, A.Gorzsas, M.Malik-Gajewska, M.Duczmal,
Isothiocyanate Controlled Architecture, Spectroscopic, and Magnetic Behavior of Copper(II) L-Arginine Complexes.
J. Coordin. Chem. **72**₈ (2019) 1358–77. [\[DOI\]](#)
283. A.Wojciechowska, **J. JANCZAK**, W.Zierkiewicz, P.Rytlewski, T.Rojek, M.Duczmal,
Copper(II) Complex with L-Arginine – Crystal Structure, DFT Calculations, Spectroscopic, Thermal and Magnetic Properties.
Mater. Chem. Phys. **228** (2019) 272–84. [\[DOI\]](#)
284. M.Wojtaś, **V. KINZHYBALO**, I.Bdikin, A.L.Kholkin,
Crystal Structure and Strong Piezoelectricity of New Amino Acid Based Hybrid Crystals: [H-β-(3-Pyridyl)-Ala-OH][ClO₄] and [H-β-(4-Pyridyl)-Ala-OH][ClO₄].
Cryst. Growth Des. **19**₅ (2019) 2583–93. [\[DOI\]](#)
285. **I. WOLAŃSKA**, **K. SYNORADZKI**, **K. CIESIELSKI**, K.Załęski, P.Skokowski, **D. KACZOROWSKI**,
Enhanced Thermoelectric Power Factor of Half-HEUSLER Solid Solution Sc_{1-x}Tm_xNiSb Prepared by High-Pressure High-Temperature Sintering Method.
Mater. Chem. Phys. **227** (2019) 29–35. [\[DOI\]](#)
286. Ł.Wołoszyn, M.M.Ilczyszyn, **V. KINZHYBALO**,
The Dehydration Process in the DL-Phenylglycinium Trifluoromethanesulfonate Monohydrate Crystal Revealed by XRD, Vibrational and DSC Studies.
Acta Cryst. C **75**₁₂ (2019) 1569–79. [\[DOI\]](#)
287. A.Wolska, J.Kiryk, J.Rogula, M.Sulewski, **A.HAN**, **R.J.WIGLUSZ**, M.Dobrzyński,
Kliniczno-terapeutyczne aspekty próchnicy korzenia z uwzględnieniem lasera Er:YAG i ozonoterapii. [Clinical and Therapeutic Aspects of Root Caries Including the Er:YAG Laser and Ozone Therapy.]
Inż. Fizyk Med. **8**₂ (2019) 153–56 [in Polish].
288. M.Wróbel-Kwiatkowska, M.Kropiwnicki, J.Żebrowski, A.Beopoulos, L.Dymińska, **J. HANUZA**, W.Rymowicz,
Effect of mcl-PHA Synthesis in Flax on Plant Mechanical Properties and Cell Wall Composition.
Transgen. Res. **28**₁ (2019) 77–90. [\[DOI\]](#)
289. A.I.Yanchak, Yu.I.Slyvka, **V. V. KINZHYBALO**, **T.J. BEDNARCHUK**, M.G.Mys'kiv,
The First Copper(I) Halide π-Complexes with Allyl Derivatives of Urea and Parabanic Acid.
Вопр. Хим. Хим. Технол. Nr 3 (2018) 64–73. [\[DOI\]](#)
290. Q.Yao, **D. KACZOROWSKI**, **P. SWATEK**, **D. GNIDA**, C.H.P.Wen, X.H.Niu, R.Peng, H.C.Xu, P.Dudin, S.Kirchner, Q.Y.Chen, D.W.Shen, D.L.Feng,
Electronic Structure and 4f-Electron Character in Ce₂PdIn₈ Studied by Angle-Resolved Photoemission Spectroscopy.
Phys. Rev. B **99** (2019) # 08 1107 R (5). [\[DOI\]](#)
291. A.Zajac, L.Dymińska, J.Lorenc, S.M.Kaczmarek, G.Leniec, **M. PTAK**, **J. HANUZA**,
Spectroscopic Properties and Molecular Structure of Copper Phytate Complexes: IR, RAMAN, UV-Vis, EPR Studies and DFT Calculations.
J. Biol. Inorg. Chem. **24**₁ (2018) 11–20. [\[DOI\]](#)
292. J.K.Zaręba, M.Nyk, **J. JANCZAK**, M.Samoć,
Three-Photon Absorption of Coordination Polymer Transforms UV-to-VIS Thermometry into NIR-to-VIS Thermometry.
ACS Appl. Mater. Interf. **11**₁₁ (2019) 10435–41. [\[DOI\]](#)

293. E.Zdanowicz, P.Ciechanowicz, K.Opolczynska, **D. MAJCHRZAK**, J.-G.Rousset, **E. PISKORSKA-HOMMEL**, M.Grodzicki, K.Komorowska, J.Serafinczuk, D.Hommel, R.Kudrawiec, **As-Related Stability of the Band Gap Temperature Dependence in N-Rich GaNAs.**
Appl. Phys. Lett. **115** (2019) # 09 2106 (5). [DOI]
294. L.Zur, Lam Thi Ngoc Tran, D.Massella, A.Vaccari, A.Chiappini, A.Chiasera, S.Varas, C.Armellini, A.Carpentiero, B.Boulard, D.Dorosz, S.Pelli, C.Trono, S.Berneschi, G.N.Conti, J.Gates, P.-J. Sazio, B.Rossi, E.Iacob, V.Micheli, G.Speranza, G.Ischia, F.Prudenzano, **A.ŁUKOWIAK**, D.Zonta, R.Ramponi, G.C.Righini, M.Ferrari, **SiO₂-SnO₂ Transparent Glass-Ceramics Activated by Rare Earth Ions.**
Proc. SPIE **10 914** (2019) # 10 914 11 (9+P). [DOI]
SPIE OPTO 2019: Optical Components and Materials XVI, SAN FRANCISCO, CA, US, 2019.02 02-07
295. M.Zybert, M.Wyszyńska, A.Tarka, W.Patkowski, H.Ronduda, B.Mierzwa, **L.KEPIŃSKI**, A.Sarnecki, D.Moszyński, W.Raróg-Pilecka, **Surface Enrichment Phenomenon in the Ba-Doped Cobalt Catalyst for Ammonia Synthesis.**
Vacuum **168** (2019) # 108 831 (13). [DOI]

PUBLIKACJE W MATERIAŁACH KONFERENCYJNYCH
PUBLICATIONS IN CONFERENCE MATERIALS

296. W.Blanc, M.Vermillac, L.Petit, **A.ŁUKOWIAK**, Z.Lu, F.Mady, M.Benabdesselam, S.Chaussedent, A.Mehdi, M.Ferrari, **Nanoparticles in Optical Waveguides: A Toolbox to Promote Lasers, Amplifiers and Sensors.**
In: *International Conference on Transparent Optical Networks*, Volume 2019 (Piscataway, NJ: IEEE 2019)
88402 08 [DOI] ISBN: 978-1-728-12779-8
21st Int.Conf.on Transparent Optical Networks (ICTON 2019) ANGERS, FR, 2019.07 09-13
297. A.Chiasera, C.Meroni, F.Scotognella, Y.Boucher, **A.ŁUKOWIAK**, D.Ristic, G.Speranza, S.Varas, L.Zur, M.Ivanda, S.Taccheo, L.T.N.Tran, D.Zonta, R.Ramponi, G.C.Righini, M.Ferrari, **RF-Sputtering Technique for Fabrication of Dielectric Multilayer Structures with Low-Threshold Coherent Emission at 1.5 μm.**
In: *2019 Conference on Lasers and Electro-Optics Europe and European Quantum Electronics Conference*, (Piscataway, NJ: IEEE 2019)
88718 16 [DOI] ISBN: 978-1-728-10469-0
2019 Conf.on Lasers & Electro-Optics Europe and European Quantum Electronics Conf. (CLEOEurope-EQEC 2019) MUNICH, DE, 2019.06 23-27
298. S.A.Khakhomov, V.E.Gaishun, D.L.Kovalenko, A.V.Semchenko, V.V.Sidsky, **W. STRĘK**, **D. HRENIAK**, **A.ŁUKOWIAK**, N.S.Kovalchuk, A.N.Pyatlitski, V.A.Solodukha, D.V.Karpinsky, **Synthesis of BiFeO₃-Powders by Sol-Gel Process.**
In: *INTER-ACADEMIA 2018: Recent Advances in Technology Research and Education*, Lecture Notes in Networks and Systems [LNNS, vol. 53] Ed. by G. Laukaitis (Cham: Springer 2019)
pp. 43-48 [DOI] ISBN: 978-3-319-99833-6 (electronic)
17th Int.Conf.on Global Research and Education KAUNAS, LT, 2018.09 24-27
299. L.T. Ngoc Tran, D.Massella, R.Balda, S.Berneschi, W.Blanc, B.Boulard, A.Chiappini, A.Chiasera, P.Dentella, S.Eaton, J.Fernandez, M.Ferrari, J.Gates, **P. GŁUCHOWSKI**, G.Ischia, **A.ŁUKOWIAK**, G.N.Conti, F.Prudenzano, B.Rossi, G.C.Righini, D.Zonta, L.Zur, **SiO₂-SnO₂ Photonic Glass-Ceramics.**
In: *International Conference on Transparent Optical Networks*, Volume 2019 (Piscataway, NJ: IEEE 2019)
88400 12 (?p.) [DOI] ISBN: 978-1-728-12779-8
21st Int.Conf.on Transparent Optical Networks (ICTON 2019) ANGERS, FR, 2019.07 09-13