**Instytut Niskich Temperatur**
**i Badań Strukturalnych PAN**

Wrocław, 2024.02 18

# LISTA PUBLIKACJI 2022
## LIST of PUBLICATIONS

### KSIĄŻKI, MONOGRAFIE i ARTYKUŁY PRZEGLĄDOWE
### Books, Monographs & Reviews

1. A.I.Krivchikov, **A.Jeżowski**,

   **Thermal Conductivity of Glasses and Disordered Crystals.**

   In: *Low-Temperature Thermal and Vibrational Properties of Disordered Solids. A Half-Century of Universal "Anomalies" of Glasses.*, (Singapore: World Scientific 2022) pp. 69–112. [DOI]
   [ISBN 978-183953341-9]

### ARTYKUŁY W CZASOPISMACH NAUKOWYCH
### Articles in Scientific Journals

2. A.Adach, M.Tyszka-Czochara, K.Bukowska-Strakova, **P. Rejnhardt**, **M. Daszkiewicz**,

   ***In situ* Synthesis, Crystal Structure, Selective Anticancer and Proapoptotic Activity of Complexes Isolated from the System Containing Zerovalent Nickel and Pyrazole Derivatives.**

   *Polyhedron* **223** (2022) #115 943 (12). [DOI]

3. H.Ahankar, A.Ramazani, K.Ślepokura, **V. Kinzhybalo**,

   **Malic Acid as an Effective and Valuable Bioorganocatalyst for One-Pot, Three-Component Synthesis of Pyrrolidinone Derivatives.**

   *ArkivOC* **2022** Pt iii (2022) 27–40. [DOI]

4. Md.Sh.Alam, P.K.Tanwar, K.Dybko, A.S.Wadge, P.Iwanowski, A.Wiśniewski, **M. Matusiak**,

   **Temperature-Driven Spin-Zero Effect in $TaAs_2$ .**

   *J. Phys. Chem. Solids* **170** (2022) #110 939 (6). [DOI]

5. A.Amorese, D.Khalyavin, K.Kummer, N.B.Brookes, C.Ritter, O.Zaharko, C.B.Larsen, **O. Pavlosiuk**, **A.P. Pikul**, **D. Kaczorowski**, M.Gutmann, A.T.Boothroyd, A.Severing, D.T.Adroja,

   **Metamagnetism and Crystal-Field Splitting in Pseudohexagonal $CeRh_3Si_2$ .**

   *Phys. Rev.* B **105** (2022) #125119 (15). [DOI]

6. A.Anand, M.Manjuladevi, R.K.Veena, V.S.Veena, **Yu.S. Koshkid'ko**, S.Sagar,

   **The Influence of Ti Doping at the Mn Site on Structural, Magnetic, and Magnetocaloric Properties of $Sm_{0.6}Sr_{0.4}MnO_3$ .**

   *J. Solid State Chem.* **305** (2022) #122 712 (11). [DOI]

7. A.Anand, M.Manjuladevi, R.K.Veena, V.S.Veena, **Yu.S. Koshkid'ko**, S.Sagar,

   **An Investigation on the Effect of Ti Doping at the Mn Site on Structural Magnetic and Magnetocaloric Properties of $Nd_{0.5}Ca_{0.5}MnO_3$ .**

   *Mater. Res. Bull.* **145** (2022) #111 512 (11). [DOI]

8. V.K.Anand, D.T.Adroja, **R. Idczak**, A.Bhattacharyya, R.Tripathi, **V.H. Tran**, B.Lake,

   **Thermal Conductivity, Thermoelectric Power and Mössbauer Investigations on Atiferromagnetic $CeFe_{1.7}Ir_{0.3}Al_{10}$ .**

   *J. Magn. Magn. Mater.* **556** (2022) #169 370 (7). [DOI]

9. **V. Apinyan**, **T.K. Kopeć**,

   **Excitonic Condensation and Metal–Semiconductor Transition in AA Bilayer Graphene in an External Magnetic Field.**

   *Phys. Rev.* B **105** (2022) #184503 (20). [DOI]

10. **J. Baran**, N.A.Davydova, **M. Drozd**, A.Krivchikov, E.A.Ponezha,

    **Spectroscopic and Calorimetric Investigation of Cyclohexanol in Different Orientational States.**

    *Mol. Cryst. Liq. Cryst.* **747**$_1$ (2021) 30–41. [DOI]

    *25 th* Galyna Puchkovska *Int.Sch.-Semin.on Spectroscopy of Molecules & Crystals (XXV ISSSMC)* KYIV, UA, 2021.09 21–24

11. K.Bartosiewicz, A.Markovskyi, T.Horiai, **D. Szymański**, Sh.Kurosawa, A.Yamaji, A.Yoshikawa,

    **A Study of $Mg^{2+}$ Ions Effect on Atoms Segregation, Defects Formation, Luminescence and Scintillation Properties in $Ce^{3+}$ Doped $Gd_3Al_2Ga_3O_{12}$ Single Crystals.**

    *J. Alloy. Compd.* **905** (2022) #163154 (12). [DOI]

12. **A.Bednarkiewicz**, M. Szalkowski,

    **Photon Avalanche Goes Multicolour.**

    *Nat. Nanotechnol.* **17**$_5$ (2022) 440–42. [DOI]

13. N.Bednarska-Adam, M.Kuwik, E.Pietrasik, W.A.Pisarski, T.Goryczka, **B. Macalik**, J.Pisarska,

    **Synthesis and Characterization of $Li_2MgGeO_4 : Ho^{3+}$.**

    *Materials* **15**$_{15}$ (2022) #5263 (12). [DOI]

14. K.Ayisha Begam, N.Kanagathara, **M.K. Marchewka**, A.-Y.Lo,

    **DFT, Hirshfeld and Molecular Docking Studies of a Hybrid Compound: 2,4-Diamino-6-methyl-1,3,5-triazin-1-ium Hydrogen Oxalate as a Promising Anti-Breast Cancer Agent.**

    *Heliyon* **8**$_8$ (2022) #e10355 (8). [DOI]

15. B.Belan, **M. Daszkiewicz**, M.Dzevenko, B.Rożdżyńska-Kiełbik, V.Pavlyuk, R.Gladyshevskii,

    **Structural and Electrochemical Properties of the Binary Silicides $Eu_5Si_3$ and EuSi.**

    *Z. Naturforschg.* B **77**$_{2/3}$ (2022) 99–109. [DOI]

16. **O. Bezkrovnyi**, A.Bruix, D.Blaumeiser, L.Piliai, S.Schötz, T.Bauer, I.Khalakhan, T.Skála, P.Matvija, **P. Kraszkiewicz**, M.Pawlyta, M.Vorokhta, I.Matolínová, J.Libuda, K.M.Neyman, **L.Kępiński**,

    **Metal–Support Interaction and Charge Distribution in Ceria-Supported Au Particles Exposed to CO.**

    *Chem. Mater.* **34**$_{17}$ (2022) 7916–36. [DOI]

17. **O. Bezkrovnyi**, M.Vorokhta, M.Pawlyta, **M. Ptak**, L.Piliai, X.Xie, T.N.Dinhová, I.Khalakhan, I.Matolínová, **L.Kępiński**,

    ***In situ* Observation of Highly Oxidized Ru Species in Ru / $CeO_2$ Catalyst under Propane Oxidation.**

    *J. Mater. Chem.* A **10**$_{31}$ (2022) 16675–84. [DOI]

18. T.Bezrodna, G.Klishevich, V.Melnyk, M.Nesprava, O.Roshchin, N.Curmei, **J. Baran**, **M. Drozd**,

    **Cooling Rate Effects on Luminescence and Structure Properties of the 5CB Liquid Crystal, Doped by Different Nanoparticle Dispersions.**

    *Mol. Cryst. Liq. Cryst.* **747**$_1$ (2021) 56–63. [DOI]

    *25 th* Galyna Puchkovska *Int.Sch.-Semin.on Spectroscopy of Molecules & Crystals (XXV ISSSMC)* KYIV, UA, 2021.09 21–24

19. A.Bhattacharyya, D.T.Adroja, M.M.Koza, S.Tsutsui, **T. Cichorek**, A.D.Hillier,

    **Multigap Superconductivity in the Filled-Skutterudite Compound $LaRu_4As_{12}$ Probed by Muon Spin Rotation**

    *Phys. Rev.* B **106** (2022) #134516 (8). [DOI]

20. S.Biswas, **P. Wiśniewski**, S.Keshri,

**Study of the Structural, Electrical and Magnetic Properties of the $La_{0.67}Sr_{0.33-x}Pb_xMnO_3$ Manganite Nanocrystalline Materials.**

*J. Low Temp. Phys.* **206** $_{5/6}$ (2022) 400–12. [DOI]

21. **W. Bodylska**, B.Borak, **M. Fandzloch**, J.Trzcińska-Wencel, P.Golińska, K.Roszek, **A.Łukowiak**,

**$SiO_2$–CaO–ZnO Nanoglass as Multifunctional Material.**

*Proc. SPIE* **12142** (2022) # 12142 1H (7). [DOI]
*Fiber Lasers & Glass Photonics: Materials through Applications III,* STRASBOURG, FR, 2022.05 09–20

22. **W. Bodylska**, **M. Fandzloch**, R.Szukiewicz, **A.Łukowiak**,

**Cation-Exchange in Metal-Organic Framework as a Strategy to Obtain New Material for Ascorbic Acid Detection.**

*Nanomaterials* **12** $_{24}$ (2022) # 4480 (16). [DOI]

23. **V. Boiko**, **Z. Dai**, **M. Chaika**, **K. Grzeszkiewicz**, J.Li, **W. Stręk**, **D. Hreniak**,

**Size-Dependent Persistent Luminescence of YAGG : $Cr^{3+}$ Nanophosphors.**

*Materials* **15** $_{13}$ (2022) # 4407 (13). [DOI]

24. **V. Boiko**, **Z. Dai**, J.Li, **D. Hreniak**,

**Effect of Nd Concentration on Persistent Luminescence of $Y_3Al_2Ga_3O_{12}$ : $Ce^{3+}$, $Cr^{3+}$, $Nd^{3+}$ Ceramics for the Near-Infrared Region.**

*J. Lumin.* **250** (2022) # 119 115 (7). [DOI]

25. **V. Boiko**, M.L.Saladino, F.Armetta, F.Ursi, **M. Markowska**, **K. Grzeszkiewicz**, C.Mortalò, C.Leonelli, **D. Hreniak**,

**Urea Glass Route as a Way to Optimize YAGG : $Ce^{3+}$, $Cr^{3+}$, $Pr^{3+}$ Nanocrystals for Persistent Luminescence Applications.**

*Langmuir* **38** $_{38}$ (2022) 11 539–49. [DOI]

26. **B. Bondzior**, C.Nguyen, **T.H.Q. Vu**, D.Pugliese, **P.J. Dereń**, L.Petit,

**The Usability of the Judd–Ofelt Theory for Luminescent Thermometry Using $Eu^{3+}$-Doped Phosphate Glass.**

*J. Lumin.* **252** (2022) # 119 386 (9). [DOI]

27. **B. Bondzior**, **D. Stefańska**, **T.H.Q. Vu**, **P.J. Dereń**,

**Optimization of $Eu^{3+}$-to-Host Emission Ratio in Double-Perovskite Molybdenites for Highly Sensitive Temperature Sensors.**

*J. Phys. Chem.* C **126** $_{31}$ (2022) 13 247–55. [DOI]

28. D.Budzikur, **V. Kinzhybalo**, K.Ślepokura,

**Crystal Engineering and Structural Diversity of 2-Aminopyridinium Hypodiphosphates Obtained by Crystallization and Dehydration.**

*Cryst Eng Com* **24** $_{24}$ (2022) 4 417–29. [DOI]

29. **Z. Bukowski**, D.Rybicki, **M. Babij**, J.Przewoźnik, Ł.Gondek, J.Żukrowski, C.Kapusta,

**Canted Antiferromagnetic Order in $EuZn_2As_2$ Single Crystals.**

*Sci. Rep.* **12** (2022) # 14 718 (13). [DOI]

30. B.Burtan-Gwizdała, M.Reben, J.Cisowski, E.S.Yousef, **R. Lisiecki**, N.Nosidlak,

**Strong Emission at 1000 nm from $Pr^{3+}$/$Yb^{3+}$-Codoped Multicomponent Tellurite Glass.**

*Pure Appl. Chem.* **94** $_2$ (2022) 147–56. [DOI]
*14 st Int.Conf.on Solid State Chemistry (SSC 2021)* TRENCIN, SK, 2021.06 13–17

31. A.Carlotto, O.Sayginer, H.Chen, L.Th.N.Tran, R.Dell'Anna, A.Szczurek, S.Varas, B.Babiarczuk, J.Krzak, O.S.Bursi, D.Zonta, **A.Łukowiak**, G.C.Righini, M.Ferrari, S.M.Pietralunga, A.Chiasera,

**RF-Sputtering Fabrication of Flexible Glass-Based 1D Photonic Crystals.**

*Proc. SPIE* **12142** (2022) # 1214206 (11). [DOI]

*Fiber Lasers & Glass Photonics: Materials through Applications III,* STRASBOURG, FR, 2022.05 09–20

32. **M. Chaika**, S.Balabanov, D.Permin,

**Spectral Characteristics of "Mixed" Sesquioxide Yb : $(Gd, Lu)_2O_3$ Transparent Ceramics.** Invited Article

*Opt. Mater.* X **13** (2022) # 100123 (8). [DOI]

33. **M. Chaika**, **R. Lisiecki**, K.Leśniewska-Matys, O.M.Vovk,

**A New Approach for Measurement of $Cr^{4+}$ Concentration in $Cr^{4+}$ : YAG Transparent Materials : Some Conceptual Difficulties and Possible Solutions.**

*Opt. Mater.* **126** (2022) # 112126 (6). [DOI]

34. **M. Chaika**, **R. Tomala**, **M. Oleszko**, **W. Stręk**,

**Surface-Related White Light Emission Phenomenon in Transparent Solids.**

*MRS. Adv.* $\mathbf{7}_{34}$ (2022) 1095–98. [DOI]

*30th Int. Materials Research Congr. (Joint IMRC '22 & ICAM '21)* CANCÚN, QR, MX, 2022.08 14–19

35. **M. Chaika**, S.Ubizskii, J.Kajan, T.Gregor, G.Gamazyan, **Ł.Marciniak**,

**On the Nature of CT Luminescence in $Yb^{3+}$ : YAG Single Crystal under Low Photon Energy.**

*Opt. Mater.* **130** (2022) # 112548 (5). [DOI]

36. **G. Chajewski**, **D. Gnida**, **D. Das**, **D. Kaczorowski**,

**Superconductivity in $Ce_3PdIn_{11}$ Single Crystals — Intrinsic Phenomenon or Parasitic Effect ?**

*J. Phys.: Conf. Ser.* **2164** (2022) # 012006 (4). [DOI]

*2020 Int.Conf.on Strongly Correlated Electron Systems (SCES 2020)* (Online Event) CAMPINAS, SP, BR, 2021.09 27 –.10 01

37. Xuan Chen, GuangRan Zhang, **R. Tomala**, **D. Hreniak**, YiQuan Wu,

**Yb Doped MgO Transparent Ceramics Generated through the SPS Method.**

*J. Eur. Cer. Soc.* $\mathbf{42}_{10}$ (2022) 4320–27. [DOI]

38. **T. Cichorek**, **Ł.Bochenek**, **J. Juraszek**, Yu.V.Sharlai, G.P.Mikitik,

**Detection of Relativistic Fermions in Weyl Semimetal TaAs by Magnetostriction Measurements.**

*Nature Commun.* **13** (2022) # 3868 (9). [DOI]

39. P.Ciechanowicz, S.Gorantla, M.Wełna, A.Pieniążek, J.Serafińczuk, B.Kowalski, R.Kudrawiec, **D. Hommel**,

**Role of Temperature in Arsenic-Induced Antisurfactant Growth of GaN Microrods.**

*ACS Omega* $\mathbf{7}_{28}$ (2022) 24777–84. [DOI]

40. **K. Ciesielski**, L.C.Gomes, G.A.Rome, E.A.Bensen, J.M.Adamczyk, **D. Kaczorowski**, E.Ertekin, E.S.Toberer,

**Structural Defects in Compounds Zn$X$Sb ($X$ = Cr, Mn, Fe) : Origin of Disorder and Its Relationship with Electronic Properties.**

*Phys. Rev. Mater.* $\mathbf{6}_6$ (2022) # 063602 (14). [DOI]

41. A.Ćirić, **Ł.Marciniak**, M.D.Dramićanin,

**Luminescence Intensity Ratio Squared – A New Luminescence Thermometry Method for Enhanced Sensitivity.**

*J. Appl. Phys.* **131** (2022) # 114501 (8). [DOI]

42. A.Ćirić, **Ł.Marciniak**, M.D.Dramićanin,

**Self-Referenced Method for the Judd–Ofelt Parametrisation of the $Eu^{3+}$ Excitation Spectrum.**

*Sci. Rep.* **12** (2022) # 563 (10). [DOI]

43. M.T.Colomer, M.Šimėnas, J.Banys, F.Vattier, **A.Gągor**, **M. Mączka**,

**Effect of Sintering under $CO + N_2$ / $H_2$ and $CO_2$ + Air Atmospheres on the Physicochemical Features of a Commercial Nano-YSZ.**

*J. Alloy. Compd.* **904** (2022) # 163 976 (10). [DOI]

44. **J. Ćwik**, **Yu.Koshkid'ko**, K.Nenkov, E.Tereshina-Chitrová, **M. Małecka**, B.Weise, **K. Kowalska**,

**Magnetocaloric Performance of the Three-Component $Ho_{1-x}Er_xNi_2$ ($x = 0.25, 0.5, 0.75$) Laves Phases as Composite Refrigerants.**

*Sci. Rep.* **12** (2022) # 12 332 (11). [DOI]

45. **J. Ćwik**, **Yu.Koshkid'ko**, K.Nenkov, E.Tereshina-Chitrová, B.Weise, **K. Kowalska**,

**Low-Temperature Magnetothermodynamics Performance of $Tb_{1-x}Er_xNi_2$ Laves-Phases Compounds for Designing Composite Refrigerants.**

*Crystals* **12** $_7$ (2022) # 931 (11). [DOI]

46. Zheng Fa **Dai**, XinYu Mao, Qiang Liu, DanYang Zhu, HaoHong Chen, TengFei Xie, Jian Xu, **D. Hreniak**, M.Nikl, Jiang Li,

**Effect of Dopant Concentration on the Optical Characteristics of $Cr^{3+}$ : $ZnGa_2O_4$ Transparent Ceramics Exhibiting Persistent Luminescence.**

*Opt. Mater.* **125** (2022) # 112 127 (7). [DOI]

47. **Cl.S. de Medeiros**, **M. Ptak**, **A.Gągor**, A.Sieradzki,

**Structural Phase Transitions in Novel Hydrogen-Bonded Cyanide-Based Crystal of $[C_4H_8NH_2]_2[(H_3O)Co(CN)_6]$.**

*J. Mol. Struct.* **1252** (2022) # 132 143 (10). [DOI]

48. J.Deniszczyk, **A. Ślebarski**,

**Band Structure Studies of the $R_5Rh_6Sn_{18}$ ($R$ = Sc, Y, Lu) Quasi-skutteridite Superconductors.**

*Materials* **15** $_7$ (2022) # 2451 (13). [DOI]

49. **P.J. Dereń**,

**Passive Radiant Cooling without Sacrificing the Aesthetics of Objects.** Note.

*Light Sci.Appl.* **11** $_1$ (2022) #192 (2). [DOI]

50. **P.J. Dereń**, **A.Watras**, **D. Stefańska**,

Нефелоксетический эффект в нанокристаллах $ZnAl_2O_4 : Cr^{3+}$, обусловленный их размером. [?]

Опт. Спектроск. **130** $_1$ (2022) 130–37 [in Russian]. [DOI]
Engl. in: *Opt. Spectrosc.* **130** $_1$ (2022) ???–??.

51. G.Dhakal, F.Kabir, A.K.Nandy, A.Aperis, A.P.Sakhya, S.Pradhan, K.Dimitri, C.Sims, S.Regmi, M.M.Hosen, Y.Liu, L.Persaud, **D. Kaczorowski**, P.M.Oppeneer, M.Neupane,

**Observation of Anisotropic Dirac Cones in the Topological Material $Ti_2Te_2P$.**

*Phys. Rev.* B **106** (2022) # 12 5124 (6). [DOI]

52. S.T.Dibaba, Y.Xie, W.Xi, **A.Bednarkiewicz**, W.Ren, L.Sun,

**$Nd^{3+}$-Sensitized Upconversion Nanoparticle Coated with Antimony Shell for Bioimaging and Photothermal Therapy *in vitro* Using Single Laser Irradiation.**

*J. Rare Earths* **40** $_6$ (2022) 862–69. [DOI]

53. M.Domínguez-Pumar, C.Rosero-Pozo, J.Pons-Nin, J.Ramos-Castro, **D. Szewczyk**, **A.Jeżowski**, N.Solà-Peñafiel, X.Manyosa, S.Bermejo, V.Jiménez,

**Spherical Probe for the Thermophysical Characterization of Regoliths for Planetary Exploration Using Frequency Methods.**

*Sens. Actuat.* A **348** (2022) # 114 018 (6). [DOI]

54. G.Dovbeshko, V.Cherepanov, **V. Boiko**, A.Perederiy, M.Olenchuk, A.Negriyko, O.Posudievsky, V.Moiseyenko, V.Romanyuk,

**Raman Modes and Mapping of Graphene Nanoparticles on Si and Photonic Crystal Substrates.**

*Opt. Mater.* X **15** (2022) # 100 163 (8). [DOI]

55. M.D.Dramićanin, **Ł.Marciniak**, S.Kuzman, **W. Piotrowski**, Z.Ristić, J.Periša, I.Evans, J.Mitrić, V.Dordević, N.Romčević, M.G.Brik, Chong-Geng Ma,

**$Mn^{5+}$-Activated $Ca_6Ba(PO_4)_{4O}$ Near-Infrared Phosphor and Its Application in Luminescence Thermometry.**

*Light Sci.Appl.* **11** 1 (2022) #279 (13). [DOI]

56. **D. Drozdowski**, **A.Gągor**, **M. Mączka**,

**Methylhydrazinium Lead Iodide – One Dimensional Chain Phase with Excitonic Absorption and Large Energy Band Gap.**

*J. Mol. Struct.* **1249** (2022) # 131 660 (7). [DOI]

57. **D. Drozdowski**, **A.Gągor**, **D. Stefańska**, J.K.Zaręba, K.Fedoruk, **M. Mączka**, A.Sieradzki,

**Three-Dimensional Methylhydrazinium Lead Halide Perovskites: Structural Changes and Effects on Dielectric, Linear, and Nonlinear Optical Properties Entailed by the Halide Tuning.**

*J. Phys. Chem.* C **126** (2022) 1600–10. [DOI]

58. **M. Dudek**, **M. Szalkowski**, **M. Misiak**, M.Ćwierzona, A.Skripka, **Z. Korczak**, D.Piątkowski, **P. Woźniak**, **R. Lisiecki**, P.Goldner, S.Maćkowski, E.M.Chan, P.J.Schuck, **A.Bednarkiewicz**,

**Size-Dependent Photon Avalanching in $Tm^{3+}$ Doped $LiYF_4$ Nano, Micro, and Bulk Crystals.**

*Adv. Opt. Mater.* **10** 19 (2022) # 22 01052 (12). [DOI]

59. L.Dymińska, A.M.M.Albegar, W.Sąsiadek, E.Kucharska, A.Zając, **J. Hanuza**,

**Spectroscopic Evidence of Thermal Changes in Plant Oils during Deep-Frying. Chemical and Infrared Studies.**

*Plants* **11** 14 (2022) # 1813 (13). [DOI]

60. L.Dymińska, **J. Hanuza**, **J. Janczak**, **M. Ptak**, **R. Lisiecki**,

**The Structural and Optical Properties of 1,2,4-Triazolo[4,3-*a*] pyridine-3-amine.**

*Molecules* **27**3 (2022) # 721 (17). [DOI]

61. R.Eder, **P. Wróbel**,

**Channel Order in the Two-Channel Kondo Lattice.**

*Phys. Rev.* B **105** (2022) # 12 5133 (9). [DOI]

62. **K. Elżbieciak-Piecka**, **K. Ledwa**, **Ł.Marciniak**,

**A Novel Approach in Light-to-Heat Conversion: $Cr^{3+}$-Based Photothermal Agent.**

*Mater. Today Chem.* **26** (2022) # 101 039 (8). [DOI]

63. **K. Elżbieciak-Piecka**, **Ł.Marciniak**,

**Optical Heating and Luminescence Thermometry Combined in a $Cr^{3+}$-Doped $YAl_3(BO_3)_4$.**

*Sci. Rep.* **12** (2022) # 16 364 (9). [DOI]

64. **M. Fandzloch**, **W. Bodylska**, **B. Barszcz**, J.Trzcińska-Wencel, K.Roszek, P.Golińska, **A.Łukowiak**,

**Effect of ZnO on Sol–Gel Glass Properties toward (Bio)application.**

*Polyhedron* **223** (2022) # 115 952 (13). [DOI]

65. **M. Fandzloch**, **W. Bodylska**, K.Roszek, **K. Hałubek-Głuchowska**, A.Jaromin, **Yu.Gerasymchuk**, **A.Łukowiak**,

**Solvothermally-Derived Nanoglass as a Highly Bioactive Material.**

*Nanoscale* **14**14 (2022) 5 514–28. [DOI]

66. **M. Fandzloch**, T.Jędrzejewski, J.Wiśniewska, J.Sitkowski, L.Dobrzańska, A.A.Brożyna, S.Wrotek,

**Sawhorse-Type Ruthenium Complexes with Triazolopyrimidine Ligands: What Do They Represent in Terms of Cytotoxic and CORM Compounds?**

*Dalton Trans.* **51** 22 (2022) 8 804–20. [DOI]

67. K.Fedoruk, **D. Drozdowski**, **M. Mączka**, J.K.Zaręba, **D. Stefańska**, **A.Gągor**, A.Sieradzki,

**$2PbCl_4$, a Two-Dimensional Perovskite with Polar and Modulated Phases.**

*Inorg. Chem.* **61** 39 (2022) 15 520–31. [DOI]

68. K.Fedoruk, S.J.Zelewski, J.K.Zaręba, **M. Ptak**, **M. Mączka**, A.Sieradzki,

**Getting the Details Right: Optical, Dielectric, and Vibrational Outcomes of Structural Phase Transition in One-Dimensional Pyrrolidinium Lead Iodide and the Role of Defects.**

*J. Mater. Chem.* C **10** 29 (2022) 10 519–29. [DOI]

69. K.Filar, K.Morawski, **A.Zaleski**, **L.M. Tran**, T.Czujko, **D. Gajda**,

**Superconducting Properties and Microstructure Changes after Heat Treatment of *in situ* $MgB_2$ Wires with *ex situ* $MgB_2$ Barriers.**

*J. Supercond. Nov. Magn.* **35** 6 (2022) 1491–97. [DOI]

70. **A.Filatova-Zalewska**, **Z. Litwicki**, **A.Jeżowski**,

**Experimental Setup for Thermal Conductivity Investigation of Amorphous Materials.**

*Cryogenics* **121** (2022) # 103 394 (5). [DOI]

71. **D. Gajda**, **A.J. Zaleski**, A.J.Morawski, **M. Małecka**, **L.M. Tran**, M.Rindfleisch, T.Durejko, T.Czujko,

**High Critical Current Density in the Textured Nanofiber Structure in Multifilament $MgB_2$ Wires Made by the Powder-In-Tube (PIT) Technique.**

*Materials* **15** 15 (2022) # 5419 (8). [DOI]

72. D.Gallacher, A.Leonhardt, H.Benmansour, E.Ellingwood, Q.Hars, M.Kuźniak, J.Anstey, **B. Bondzior**, M.G.Boulay, B.Cai, **P.J. Dereń**, P.C.F. Di Stefano, S.Garg, J.Mason, T.R.Pollmann, P.Skensved, V.Strickland, M.Stringer,

**Development and Characterization of a Slow Wavelength Shifting Coating for Background Rejection in Liquid Argon Detectors.**

*Nucl. Instr. Meth. Phys. Res.* A **1034** (2022) # 166 683 (10). [DOI]

73. T.Gavrilović, J.Periša, Z.Ristić, **K. Elżbieciak-Piecka**, **Ł.Marciniak**, C.-G.Ma, Ż.Antić, M.D.Dramićanin,

**Thermal History Forensics Using the Emission Intensity Ratio of $YVO_4:Eu^{3+}$ Phosphor.**

*Measurement* **202** (2022) # 111 942 (8). [DOI]

74. B.Georgieva, S.Kolev, Ch.Ghelev, K.Krezhov, D.Kovacheva, B.Vertruyen, R.Closset, **L.M. Tran**, **M. Babij**, **A.Zaleski**, T.Koutzarova,

**Effect of Cation Substitutions in Y-Type $Ba_{0.5}Sr_{1.5}Me_2Fe_{12}O_{22}$ Hexaferrites on the Magnetic Phase Transitions.**

*J. Phys.: Conf. Ser.* **2240** (2022) # 01 2023 (5). [DOI]

*22nd Int.Summ.Sch.on Vacuum, Electron & Ion Technologies (VEIT 2021)* (Online Event) SOZOPOL, BG, 2021.09 20–24

75. **Yu. Gerasymchuk**, **A.Wędzyńska**, **A.Łukowiak**,

**Novel $CaO–SiO_2–P_2O_5$ Nanobioglass Activated with Hafnium Phthalocyanine.**

*Nanomaterials* **12** 10 (2022) # 1719 (8). [DOI]

76. **Yu. Gerasymchuk**, **A.Wędzyńska**, **W. Stręk**,

**Liquid "Syngas" Based on Supercritical Water and Graphite Oxide/$TiO_2$ Composite as Catalyst for $CO_2$ to Organic Conversion.**

*Catal. Lett.* **152** 9 (2022) 2 840–51. [DOI]

77. **P. Głuchowski**,

**Pressure-Induced Changes in the Persistent Luminescence of $Gd_{2.994}Ce_{0.006}Ga_3Al_2O_{12}$ and $Gd_{2.964}Ce_{0.006}Dy_{0.03}Ga_3Al_2O_{12}$ Nanoceramics.**

*Dalton Trans.* **51** 14 (2022) 5 524–33. [DOI]

78. **P. Głuchowski**, **R. Tomala**, **D. Kujawa**, **V. Boiko**, T.Murauskas, **P. Solarz**,

**Insights into the Relationship between Crystallite Size, Sintering Pressure, Temperature Sensitivity, and Persistent Luminescence Color of $Gd_{2.97}Pr_{0.03}Ga_3Al_2O_{12}$ Powders and Ceramics.**

*J. Phys. Chem.* C **126** 16 (2022) 7 127–42. [DOI]

79. M.Gong, D.Sar, J.Friedman, **D. Kaczorowski**, S.Abdel Razek, W.-C.Lee, P.Aynajian,

**Surface State Evolution Induced by Magnetic Order in Axion Insulator Candidate $EuIn_2As_2$.**

*Phys. Rev.* B **106** (2022) # 12 5156 (10). [DOI]

80. J.Górecki, M.Macherzyński, **J. Chmielowiec**, K.Borovec, M.Wałeka, YinYou Deng, J.Sarbinowski, **G. Paściak**,

**The Methods and Stands for Testing Fixed-Sorbent and Sorbent Polymer Composite Materials for the Removal of Mercury from Flue Gases.**

*Energies* **15** 23 (2022) # 8891 (18). [DOI]

81. M.Grodzicki, A.K.Tołłoczko, **D. Majchrzak**, **D. Hommel**, R.Kudrawiec,

**Band Alignments of GeS and GeSe Materials.**

*Crystals* **12** 10 (2022) # 1492 (9). [DOI]

82. **B. Grygiel**, **K. Patucha**,

**Excitation Spectra of Strongly Interacting Bosons in the Flat-Band Lieb Lattice.**

*Phys. Rev.* B **106** (2022) # 22 4514 (9). [DOI]

83. A.Grzegórska, I.Wysocka, **P. Głuchowski**, J.Ryl, J.Karczewski, A.Zielińska-Jurek,

**Novel Composite of Zn/ Ti-Layered Double Hydroxide Coupled with MXene for the Efficient Photocatalytic Degradation of Pharmaceuticals.**

*Chemosphere* **308** (2022) # 136 191 (11). [DOI]

84. L.Guo, Y.Shi, G.Chen, Y.Liu, X.Huang, Z.Dai, Z.Liu, F.Tian, **D. Hreniak**, J.Li,

**Fabrication of Sub-micrometer Sized Er : $CaF_2$ Transparent Ceramics for Eye-Safe Lasers.**

*Opt. Mater.* **133** (2022) # 113 052 (8). [DOI]

85. K.Helios, **T.J. Bednarchuk**, R.Wysokiński, M.Duczmal, A.Wojciechowska, **A.Łukowiak**, A.Kędziora, M.Małaszczuk, D.Michalska,

**New Isomorphous Complexes of Co(II) and Zn(II) with the 5-Nitroorotate Ligand: Crystal and Molecular Structures, Spectroscopic and DFT Studies, Magnetic Properties and Antimicrobial Activities.**

*Polyhedron* **222** (2022) # 115 830 (17). [DOI]

86. A.Hilczer, **K. Pasińska**,

**Dielectric Response of $Sr_{0.95}Nd_{0.05}Fe_{12-x}Sc_xO_{19}$ Hexaferrites Nanoceramics as Dependent on Crystal and Microstructure and Ceramic Heterogeneity.**

*J. Alloy. Compd.* **893** (2022) # 162 303 (9). [DOI]

87. T.Q. Hoa Nguyen, **V.H. Tran**,

**Relationship between Morphological and Physical Properties in Nanostructured $CuMnO_2$.**

*Physica* E **144** (2022) # 115 418 (8). [DOI]

88. M.K.Hooda, **O. Pavlosiuk**, Z. Hossain, **D. Kaczorowski**,

**Magnetotransport Properties of the Topological Semimetal SrAgBi.**

*Phys. Rev.* B **106** (2022) # 04 5107 (8). [DOI]

89. M.Horiacha, G.Nychyporuk, R.Pöttgen, **D. Kaczorowski**, V.Zaremba,

**Crystal Structure and Magnetic Properties of Some Compounds with $GdNi_2Ga_3In$ Type Structure.**

*Z. Krist.- Cryst. Mater.* **237**$_{8/9}$ (2022) 281–86. [DOI]

90. **R. Idczak**, **M. Babij**, **P. Sobota**, **W. Nowak**, R.Konieczny, **Z. Bukowski**, **V.H. Tran**,

**Coexistence of Magnetism and Superconductivity in 112-Type Iron Pnictides $EuFeAs_2$ Doped with Co.**

*J. Magn. Magn. Mater.* **560** (2022) # 169 676 (10). [DOI]

91. **J. Janczak**,

**The Synthesis, Structure, and Spectral Properties of Antimony(III) Phthalocyanine Obtained under Iodine Vapor Atmosphere: $(Sb^{III}Pc)(I_3)\cdot\frac{1}{2}(I_2)$.**

*Inorg. Chim. Acta* **532** (2022) # 120 758 (11). [DOI]

92. **J. Janczak**,

**Supramolecular Structure and Spectroscopic Characterization of New 1,3,5-Triaza-2-boracyclohex-3-en Derivative Formed under Mild Conditions between 2-Imino-4-thiobiuret and Boric Acid.**

*J. Mol. Struct.* **1251** (2022) # 131 968 (11). [DOI]

93. R.Janicki, R.Korbutowicz, M.Rudziński, P.P.Michałowski, S.Złotnik, M.Grodzicki, S.Gorantla, J.Serafińczuk, **D. Hommel**, R.Kudrawiec,

**Thermal Oxidation of [0001] GaN in Water Vapor Compared with Dry and Wet Oxidation: Oxide Properties and Impact on GaN.**

*Appl. Surf. Sci.* **598** (2022) # 153 872 (9). [DOI]

94. M.Jaworski, **A.Chudzyńska**, P.Mrowiński, G.Sęk,

**Efficient Emission in the Telecom Range from Quantum Dots Embedded in Photonic Structures Fabricated by Focused Ion Beam Milling.**

*Acta Phys. Pol.* A **142**$_5$ (2022) 662–67. [DOI]

*50th Int.Sch.& Conf.on the Physics of Semiconductors (Jaszowiec '22)* SZCZYRK, PL, 2021.09 20–24

95. M.Jędrzejczyk, **J. Janczak**, A.Huczyński,

**Molecular Structure and Spectroscopic Studies of the Product of Acidic Degradation of Salinomycin and Its Potassium Salt.**

*J. Mol. Struct.* **1263** (2022) # 133 129 (12). [DOI]

96. D.Johnson, **J.M. Reeks**, A.Caron, I.Tzoka, I.Ali, S.M.Mc Gillivray, Yu.M.Strzhemechny,

**Influence of Surface Properties and Microbial Growth Media on Antibacterial Action of ZnO.**

*Coatings* **12**$_{11}$ (2022) # 1648 (19). [DOI]

97. A.P.Kamantsev, **Yu.S. Koshkid'ko**, S.V.Taskaev, V.V.Khovaylo, A.V.Koshelev, **J. Ćwik**, V.G.Shavrov,

**Inverse Magnetocaloric Effect and Kinetic Arrest Behavior in As-Cast $Gd_2In$ at Cryogenic Temperatures.**

*J. Supercond. Nov. Magn.* **35**$_8$ (2022) 2 181–86. [DOI]

98. K.Kamińska, D.Iwan, A.Iglesias-Reguant, W.Spałek, **M. Daszkiewicz**, A.Sobolewska, R.Zaleśny, E.Wojaczyńska, S.Bartkiewicz,

**Synthesis, Spectroscopic and Computational Studies of Photochromic Azobenzene Derivatives with 2-Azabicycloalkane Scaffold.**

*J. Mol. Liq.* **363** (2022) # 119 869 (11). [DOI]

99. N.Kanagathara, K.A.Begam, **M.K. Marchewka**,

**Structural and Vibrational Analysis of 2,4-Diamino- 6-methyl- 1,3,5-triazin- 1-ium-hydrogen Oxalate.**

*Mater. Lett.* X **15** (2022) # 100 163 (4). [DOI]

100. N.Kanagathara, R.Bhavani, A.Y.Lo, **M.K. Marchewka**, **J. Janczak**,

**Structural, Vibrational Characterization and DFT Calculations of Urea: dl-Malic Acid (1:1) – Co-crystal.**

*J. Mol. Struct.* **1270** (2022) # 133 930 (13). [DOI]

101. N.Kanagathara, R.Usha, V.Natarajan, **M.K. Marchewka**,

**Molecular Geometry, Vibrational,** NBO, HOMO–LUMO**, First Order Hyper Polarizability and Electrostatic Potential Studies on Anilinium Hydrogen Oxalate Hemihydrate – An Organic Crystalline Salt.**

*Inorg. Nano-Met. Chem.* **52** 2 (2022) 226–33. [DOI]

102. T.Kędzierski, K.Wenelska, **D. Bęben**, B.Zielińska, E.Mijowska,

**Ultrafast Self-expanded Reduced Graphene Oxide and 2D $MoS_2$ Based Films as Anode in Li-Ion Battery.**

*Electrochim. Acta* **434** (2022) # 141 318 (10). [DOI]

103. G.Ya.Khadzhai, M.V.Kislitsa, R.V.Vovk, **A.L.Solovjov**, E.Nazarova, K.Buchkov, S.R.Vovk, A.Feher,

**Degradation of the Electric Transport Characteristics of the FeSe Superconductor after a Long-Term Storage.**

Физ. Низк. Темп. **48** 9 (2022) 808–11. Also in: *Low Temp. Phys.* **48** 9 (2022) 713–15. [DOI]

104. G.Ya.Khadzhai, **A.L.Solovjov**, N.G.Panchenko, M.R.Vovk, R.V.Vovk,

**Metal–Insulator Transition in Single Crystals $Y_{1-z}Pr_zBa_2Cu_3O_{7-\delta}$.** Letter.

Физ. Низк. Темп. **48** 7 (2022) 648–52. Also in: *Low Temp. Phys.* **48** 7 (2022) 576–79. [DOI]

105. G.Ya.Khadzhai, **A.L.Solovjov**, R.V.Vovk,

**The Anisotropy of Conductive Characteristics of $Y_{1-y}Pr_yBa_2Cu_3O_{7-\delta}$ Single Crystals.**

Физ. Низк. Темп. **48** 10 (2022) 870–77. Also in: *Low Temp. Phys.* **48** 10 (2022) 768–74. [DOI]

106. L.T.Kieu Giang, **K. Trejgis**, **Ł.Marciniak**, A.Opalińska, I.E.Koltsov, W.Łojkowski,

**Synthesis and Characterizations of YZ – BDC : $Eu^{3+}$, $Tb^{3+}$ Nanothermometers for Luminescence-Based Temperature Sensing.**

*RSC Adv.* **12** 21 (2022) 13 065–73. [DOI]

107. I.I.Kindrat, B.V.Padlyak, **R. Lisiecki**, A.Drzewiecki, V.T.Adamiv,

**Effect of Silver Co-doping on Luminescence of the $Pr^{3+}$-Doped Lithium Tetraborate Glass.**

*J. Lumin.* **241** (2022) # 118 468 (11). [DOI]

108. B.Klimesz, **R. Lisiecki**, **W. Ryba-Romanowski**,

**Thermal, Spectroscopic and Optical Sensor Properties of Oxyfluorotellurite Glasses Doped with Holmium and Ytterbium.**

*Mater. Res. Bull.* **153** (2022) # 111 909 (??). [DOI]

109. **K. Knieć**, **A.Kochanowska**, L.Li, M.Suta, **Ł.Marciniak**,

**A Ratiometric and Lifetime-Based Luminescent Thermometer Exploiting the $Co^{3+}$ Luminescence in $CaAl_2O_4 : Co^{3+}$ and $CaAl_2O_4 : Co^{3+}, Nd^{3+}$.**

*J. Mater. Chem.* C **10** 24 (2022) 9 278–86. [DOI]

110. **K. Knieć**, **K.A. Ledwa**, **Ł.Marciniak**,

**Role of $SiO_2$ Coating on YAG : $V^{3+}$, $Nd^{3+}$ Nanoparticles in Luminescence Thermometry.**

*ACS Appl. Nano Mater.* **5** 6 (2022) 8 271–78. [DOI]

111. **K. Knieć**, **Ł.Marciniak**,

**A Ratiometric Luminescence *p*H Sensor Based on YAG : $V^{3+}$, $V^{5+}$ Nanoparticles.**

*New J. Chem.* **46** 24 (2022) 11 562–69. [DOI]

112. S.Kolev, B.Georgieva, T.Koutzarova, K.Krezhov, C.Ghelev, D.Kovacheva, B.Vertruyen, R.Closset, **L.M. Tran**, **M. Babij**, **A.J. Zaleski**,

**Magnetic Field Influence on the Microwave Characteristics of Composite Samples Based on Polycrystalline Y-Type Hexaferrite.**

*Polymers* **14** 19 (2022) # 4114 (11). [DOI]

113. **Yu.S. Koshkid'ko**, E.T.Dil'mieva, A.P.Kamantsev, **J. Ćwik**, **K. Rogacki**, A.V.Mashirov, V.V.Khovaylo, C. Salazar Mejia, M.A.Zagrebin, V.V.Sokolovskiy, V.D.Buchel'nikov, P.Ari-Gur, P.Bhale, V.G.Shavrov, V.V.Koledov,

**Magnetocaloric Effect and Magnetic Phase Diagram of Ni – Mn – Ga Heusler Alloy in Steady and Pulsed Magnetic Fields.**

*J. Alloy. Compd.* **904** (2022) # 164 051 (11). [DOI]

114. P.Kosior, M.Dobrzyński, A.Zakrzewska, D.Diakowska, J.Nienartowicz, T.Blicharski, S.Nagel, M.Sikora, K.Wiglusz, **A.Watras**, **R.J. Wiglusz**,

**Comparison of the Fluoride Ion Release from Composite and Compomer Materials under Varying *p*H Conditions: Preliminary *in vitro* Study.**

*Appl. Sci.* **12** 24 (2022) # 12 540 (13). [DOI]

115. **R. Kosman**, **A.Olejniczak**, M.Pawlyta, **O. Bezkrovnyi**, **B. Cichy**,

**Spectroscopic and Structural Implications of Hosting $Zn^{2+}$, $Cd^{2+}$ and $Hg^{2+}$ Ions in the $AgInS_2$ Quantum Dots.**

*J. Alloy. Compd.* **911** (2022) # 164 977 (11). [DOI]

116. N.V.Kostyuchenko, I.S.Tereshina, E.A.Tereshina-Chitrová, Y.Skourski, M.Doerr, A.K.Zvezdin, **H. Drulis**,

**High-Field Magnetization Studies and Their Analysis in $R$Fe$_{11}$Ti and $R$Fe$_{11}$TiH$_1$ Rare-Earth Intermetallics (An Example: HoFe$_{11}$TiH$_x$, $x = 0$ and 1).**

*AIP Adv.* **12** (2022) # 03 5050 (5). [DOI]

117. **A.M. Kotulska**, **A.Pilch-Wróbel**, S.Lahtinen, T.Soukka, **A.Bednarkiewicz**,

**Upconversion FRET Quantitation: The Role of Donor Photoexcitation Mode and Compositional Architecture on the Decay and Intensity Based Responses.**

*Light Sci.Appl.* **11** 1 (2022) #256 (14). [DOI]

118. M.Kowalik, J.Masternak, J.Brzeski, **M. Daszkiewicz**, B.Barszcz,

**Effect of a Lone Electron Pair and Tetrel Interactions on the Structure of Pb(II) CPs Constructed from Pyrimidine Carboxylates and Auxiliary Inorganic Ions.**

*Polyhedron* **219** (2022) # 115 818 (12). [DOI]

119. M.Kowalkińska, A.F.Borzyszkowska, A.Grzegórska, J.Karczewski, **P. Głuchowski**, M.Łapiński, M.Sawczak, A.Zielińska-Jurek,

**Pilot-Scale Studies of $WO_3$ / S-Doped g-$C_3N_4$ Heterojunction toward Photocatalytic $NO_x$ Removal.**

*Materials* **15** 2 (2022) # 633 (16). [DOI]

120. **P. Kraszkiewicz**, **M. Małecka**, **W. Miśta**,

**Sintering-Resistant and Highly Active Au/ SBA-15 Catalyst for Carbon Monoxide Oxidation.**

*Microp. Mesop. Mater.* **346** (2020) # 112 338 (14). [DOI]

121. A.I.Krivchikov, **A.Jeżowski**, **D. Szewczyk**, O.A.Korolyuk, O.O.Romantsova, L.M.Buravtseva, C.Cazorla, J.L.Tamarit,

**Role of Optical Phonons and Anharmonicity in the Appearance of the Heat Capacity Boson Peak-Like Anomaly in Fully Ordered Molecular Crystals.**

*J. Phys. Chem. Lett.* **13** 22 (2022) 5 061–67. [DOI]

122. M.Ksiądzyna, **V. Kinzhybalo**, A.Bieńko, W.Medycki, R.Jakubas, C.Rajnák, R.Boča, A.Ozarowski, M.Ozerov, A.Piecha-Bisiorek,

**Symmetry-Breaking Phase Transitions, Dielectric and Magnetic Properties of Pyrrolidinium-Tetrahalidocobaltates.**

*Inorg. Chem. Front.* **9** 10 (2022) 2 353–64. [DOI]

123. **R. Kubiak**, **J. Janczak**,

**Synthesis, Structure, and UV–Vis Characterization of Antimony(III) Phthalocyanine: $[(SbPc)_2(Sb_2I_8)(SbBr_3)]_2$.**

*Molecules* **27**$_6$ (2022) # 1839 (17). [DOI]

124. **D. Kujawa**, **D. Szewczyk**, **V. Boiko**, **D. Bęben**, **P. Głuchowski**,

**Effect of Graphene Addition on the Thermal and Persistent Luminescence Properties of $Gd_{2.994}Ce_{0.006}Ga_3Al_2O_{12}$ and $Gd_{2.964}Ce_{0.006}Dy_{0.03}Ga_3Al_2O_{12}$ Ceramics.**

*Materials* **15**$_7$ (2022) # 2606 (16). [DOI]

125. R.Kumar, B.Samantaray, S.Das, K.Lal, D.Samal, Z. Hossain,

**Damping in Yttrium Iron Garnet Films with Interface.**

*Phys. Rev.* B **106** (2022) # 05 4405 (7). [DOI]

126. A.Lemiere, **B. Bondzior**, I.Aromäki, L.Petit,

**Study of Visible, NIR, and MIR Spectroscopic Properties of $Er^{3+}$-Doped Tellurite Glasses and Glass–Ceramics.**

*J. Am. Ceram. Soc.* **105** 12 (2022) 7 186–95. [DOI]

127. A.Lemiere, A.Szczodra, S.Vuori, **B. Bondzior**, T.W.Hawkins, J.Ballato, M.Lastusaari, J.Massera, L.Petit,

**Bioactive Phosphate Glass-Based Fiber with Green Persistent Luminescence.**

*Mater. Res. Bull.* **153** (2022) # 111 899 (8). [DOI]

128. **K. Lenczewska**, **D. Szymański**, **D. Hreniak**,

**Control of Optical Properties of Luminescent $BiVO_4 : Tm^{3+}$ by Adjusting the Synthesis Parameters of Microwave-Assisted Hydrothermal Method.**

*Mater. Res. Bull.* **154** (2022) # 111 940 (9). [DOI]

129. LeiPeng Li, ZhuQin Wu, ChunZheng Wang, XiuMei Han, **Ł. Marciniak**, YanMin Yang,

**Boltzmann-Distribution-Dominated Persistent Luminescence Ratiometric Thermometry in $NaYF_4 : Pr^{3+}$.**

*Opt. Lett.* **47**$_7$ (2022) 1701–4. [DOI]

130. **R. Lisiecki**,

**Oxyfluoride Germanatetellurite Glasses Doped with Dysprosium: Spectroscopic Characteristic and Luminescence Thermometry Qualities.**

*J. Non-Cryst. Solids* **597** (2022) # 121 922 (?). [DOI]

131. **R. Lisiecki**, **J. Komar**, **B. Macalik**, **P. Solarz**, M.Berkowski, **W. Ryba-Romanowski**,

**Investigating the Structure-Sensitive Factors Relevant to Cryogenic Laser Operation of $Yb^{3+}$ Ions in Oxide Crystals.**

*J. Lumin.* **252** (2022) # 119 418 (9). [DOI]

132. Qiang Liu, WenLi Wang, **ZhengFa Dai**, **V. Boiko**, HaoHong Chen, Xin Liu, DanYang Zhu, Jian Xu, **D. Hreniak**, Jiang Li,

**Fabrication and Long Persistent Luminescence of $Ce^{3+} - Cr^{3+}$ Co-doped Yttrium Aluminum Gallium Garnet Transparent Ceramics.**

*J. Rare Earths* **40** 11 (2022) 1699–705. [DOI]

133. YangYang Liu, G.Dhakal, A.P.Sakhya, J.E.Beetar, F.Kabir, S.Regmi, **D. Kaczorowski**, M.Chini, B.M.Fregoso, M.Neupane,

**Ultrafast Relaxation of Acoustic and Optical Phonons in a Topological Nodal-Line Semimetal ZrSiS.**

*Commun. Phys.* **5** $_1$ (2022) # 203 (6). [DOI]

134. Z.Liu, G.Toci, A.Pirri, B.Patrizi, Y.Feng, D.Hu, H.Chen, **D. Hreniak**, M.Vannini, J.Li,

**Fabrication and Characterizations of Tm : $Lu_2O_3$ Transparent Ceramics for 2 ??m Laser Applications.**

*Opt. Mater.* **131** (2022) # 112 705 (7). [DOI]

135. Z.Liu, J.Wei, G.Toci, A.Pirri, B.Patrizi, Y.Feng, T.Xie, **D. Hreniak**, M.Vannini, J.Li,

**Microstructure and Laser Emission of Yb : $CaF_2$ Transparent Ceramics Fabricated by Air Pre-sintering and Hot Isostatic Pressing.**

*Opt. Mater.* **129** (2022) # 112 540 (7). [DOI]

136. J.Lorenc, A.Zając, **J. Janczak**, **R. Lisiecki**, **J. Hanuza**, **K. Hermanowicz**,

**Structure and Optical Properties of New Nitro-Derivatives of 2-*N*-Alkiloamino-picoline *N*-Oxide Isomers.**

*J. Mol. Struct.* **1265** (2022) # 133 372 (22). [DOI]

137. **M. Łysień**, Ł.Witczak, A.Wiatrowska, K.Fiączyk, J.Gadzalińska, L.Schneider, **W. Stręk**, M.Karpiński, Ł.Kosior, F.Granek, P.Kowalczewski,

**High-Resolution Deposition of Conductive and Insulating Materials at Micrometer Scale on Complex Substrates.**

*Sci. Rep.* **12** (2022) # 9327 (18). [DOI]

138. FengKai Ma, Zhen Zhang, Dapeng Jiang, ZhongHan Zhang, HuaMin Kou, **A.Strzęp**, QuinYu Tang, HaiQiong Zhou, MingJie Zhang, PeiXiong Zhang, SiQi Zhu, Hao Yin, QiTao Lv, Zhen Li, ZZhenQiang Chen, LianBi Su,

**Neodymium Cluster Evolution in Fluorite Laser Crystal: A Combined DFT and Synchrotron X-ray Absorption Fine Structure Study.**

*Crys. Growth Des.* **22** $_7$ (2022) 4 480–93. [DOI]

139. **K. Maciejewska**, **Ł.Marciniak**,

**Influence of the Synthesis Conditions on the Morphology and Thermometric Properties of the Lifetime-Based Luminescent Thermometers in $YPO_4 : Yb^{3+}, Nd^{3+}$ Nanocrystals.**

*ACS Omega* **7** $_{35}$ (2022) 31 466–73. [DOI]

140. **M. Mączka**, **A.Gągor**, **D. Stefańska**, J.K.Zaręba, **A.Pikul**,

**Structural, Magnetic and Photoluminescence Properties of New Hybrid Hypophosphites: Discovery of the First Noncentrosymmetric and Two Cobalt-Based Members.**

*Dalton Trans.* **51** $_{23}$ (2022) 9 094–102. [DOI]

141. **M. Mączka**, A.Nowok, J.K.Zaręba, **D. Stefańska**, **A.Gągor**, **M. Trzebiatowska**, A.Sieradzki,

**Near-Infrared Phosphorescent Hybrid Organic–Inorganic Perovskite with High-Contrast Dielectric and Third-Order Nonlinear Optical Switching Functionalities.**

*ACS Appl.Mater. Interf.* **14** $_1$ (2022) 1460–71. [DOI]

142. **M. Mączka**, S.Sobczak, P.Ratajczyk, F.F.Leite, W.Paraguassu, F.Dybała, A.P.Herman, R.Kudrawiec, A.Katrusiak,

**Pressure-Driven Phase Transition in Two-Dimensional Perovskite $MHy_2PbBr_4$.**

*Chem. Mater.* **34** $_{17}$ (2022) 7 867–77. [DOI]

143. **M. Mączka**, **D. Stefańska**, **A.Gągor**, **A.Pikul**,

**The Cation-Dependent Structural, Magnetic and Optical Properties of a Family of Hypophosphite Hybrid Perovskites.**

*Dalton Trans.* **51** $_1$ (2022) 352–60. [DOI]

144. **M. Mączka**, **M. Ptak**,

**Lattice Dynamics and Structural Phase Transitions in Two-Dimensional Ferroelectric Methylhydrazinium Lead Bromide Investigated Using Raman and IR Spectroscopy.**

*J. Phys. Chem.* C **126**$_{18}$ (2022) 7 991–98. [DOI]

145. **M. Mączka**, **J.A.Zienkiewicz**, **M. Ptak**,

**Comparative Studies of Phonon Properties of Three-Dimensional Hybrid Organic–Inorganic Perovskites Comprising Methylhydrazinium, Methylammonium, and Formamidinium Cations.**

*J. Phys. Chem.* C **126**$_{8}$ (2022) 4 048–56. [DOI]

146. **T.L.Mai**, **V.H. Tran**,

***Ab initio* Investigation of Electronic Structure and Optical Properties of $IrSn_4$ .**

*RSC Adv.* **12**$_{28}$ (2022) 17 882–88. [DOI]

147. **D. Majchrzak**, S.Gorantla, E.Żdanowicz, A.Pieniążek, J.Serafińczuk, **K. Moszak**, D.Pucicki, M.Grodzicki, B.J.Kowalski, R.Kudrawiec, **D. Hommel**,

**Detailed Surface Studies on the Reduction of Al Incorporation into AlGaN Grown by Molecular Beam Epitaxy in the Ga-Droplet Regime.**

*Vacuum* **202** (2022) # 111 168 (7). [DOI]

148. S.Malick, A.Ghosh, Ch.K.Barman, A.Alam, Z.Hossain, P.Mandal, J.Nayak,

**Weak Antilocalization Effect and Triply Degenerate State in Cu-Doped CaAuAs.**

*Phys. Rev.* B **105** (2022) # 165105 (9). [DOI]

149. S.Malick, J.Singh, A.Laha, V.Kanchana, Z.Hossain, **D. Kaczorowski**,

**Electronic Structure and Physical Properties of EuAuAs Single Crystal.**

*Phys. Rev.* B **105** (2022) # 045103 (7). [DOI]

150. **Ł.Marciniak**, **K. Kniec**, **K. Elżbieciak-Piecka**, **K. Trejgis**, **J. Stefańska**, M.Dramićanin,

**Luminescence Thermometry with Transition Metal Ions.** A Review.

*Coord. Chem. Rev.* **469** (2022) # 214 671 (32). [DOI]

151. **Ł.Marciniak**, **W.M. Piotrowski**, **M. Drozd**, **V. Kinzhybalo**, **A.Bednarkiewicz**, M.Dramićanin,

**Phase Transition-Driven Highly Sensitive, NIR-NIR Band-Shape Luminescent Thermometer Based on $LiYO_2 : Nd^{3+}$.**

*Adv. Opt. Mater.* **10**$_{9}$ (2022) # 21 02856 (9). [DOI]

152. **Ł.Marciniak**, **W. Piotrowski**, **M. Szalkowski**, **V. Kinzhybalo**, **M. Drozd**, M.Dramićanin, **A.Bednarkiewicz**,

**Highly Sensitive Luminescence Nanothermometry and Thermal Imaging Facilitated by Phase Transition.**

*Chem. Eng. J.* **427** (2022) # 131 941 (9). [DOI]

153. **Ł.Marciniak**, **M. Szalkowski**, **A.Bednarkiewicz**, **K. Elżbieciak-Piecka**,

**A $Cr^{3+}$ Luminescence Based Ratiometric Optical Laser Power Meter.**

*J. Mater. Chem.* C **10**$_{30}$ (2022) 11 040–47. [DOI]

154. K.Marycz, K.Kornicka-Garbowska, **A.Patej**, **P. Sobierajska**, A.Kotela, E.Turlej, M.Kępska, A.Bieńko, **R.J. Wiglusz**,

**Aminopropyltriethoxysilane (APTES)-Modified Nanohydroxyapatite (nHAp) Incorporated with Iron Oxide (IO) Nanoparticles Promotes Early Osteogenesis, Reduces Inflammation and Inhibits Osteoclast Activity.**

*Materials* **15**$_{6}$ (2022) # 2095 (31). [DOI]

155. M.Michalska, J.Pavlovský, **K. Lemański**, **M. Małecka**, **M. Ptak**, V.Novák, M.Kormunda, V.Matějka,

**The Effect of Surface Modification with Ag Nanoparticles on 21 nm $TiO_2$ : Anatase / Rutile Material for Application in Photocatalysis.**

*Mater. Today Chem.* **26** (2022) # 101 123 (?). [DOI]

156. **N. Miniajluk-Gaweł**, R.Boulesteix, **P.J. Dereń**,

**Influence of the Synthesis Method on Microstructural Features of $Ba_2MgWO_6$ Ceramics Sintered by SPS.**

*Mater. Today Commun.* **33** (2022) # 104 273 (?). [DOI]

157. **N. Miniajluk-Gaweł**, **R. Tomala**, **B. Bondzior**, **P.J. Dereń**,

**Influence of Sintering Parameters on Spectroscopic Properties of BMW : $Eu^{3+}$ Ceramic Materials Prepared by HPLT Technique.**

*Materials* **15**$_{21}$ (2022) # 7410 (11). [DOI]

158. **M. Misiak**, M.Gawłowski, A.Kowalczyk, M.Skowicki, **K. Prorok**, T.Lipiński,

**Novel UV-Activated Biofunctionalization of Up-converting Nanocrystals for Detection of Proteins.**

*J. Nanostr. Chem.* **12**$_1$ (2022) 93–103. [DOI]

159. B.Z.Momeni, S.F.Hosseini, **J. Janczak**,

**Dimethyltin**(IV) **Coordination Polymers Featuring the Versatile Ligand of 2, 2′-Bipyrimidine: A Multi-NMR, Hirshfeld Surface Analysis Study and Thermal Properties.**

*J. Inorg. Organomet. Polym.* **32**$_2$ (2022) 455–68. [DOI]

160. B.Z.Momeni, S.Kazemzade Anari, **J. Janczak**, R.Fallahpour,

**Supramolecular Arrangement Built from Zinc and Cadmium Complexes with 4′ − (4-Substituted)- 2, 2′ : 6′, 2″-Terpyridine: Crystallographic Investigation, Luminescence and Thermal Properties.**

*J. Inorg. Organomet. Polym.* **32**$_6$ (2022) 2 279–97. [DOI]

161. B.Z.Momeni, S.Kazemzade Anari, A.S.Abd-El-Aziz, **J. Janczak**, Z.Shahsavari,

**Supramolecular Dimeric Silver**(I) **Complex Based on the 1, 1′-Bis(diphenylphosphino)ferrocene: Thermal Behaviors, Luminescence Studies and Cytotoxic Properties.**

*J. Inorg. Organomet. Polym.* **32**$_{10}$ (2022) 4 028–38. [DOI]

162. **K. Moszak**, W.Olszewski, D.Pucicki, J.Serafińczuk, **K. Startek**, D.Hommel,

**AlGaN Composition Correction under Variable Ammonia and Pressure Conditions in MOVPE Reactor.**

*Acta Phys. Polon.* A **141**$_2$ (2022) 105–9. [DOI]

*49 th Int.Sch.& Conf.on the Physics of Semiconductors (Jaszowiec '21), online*, PL, 2021.06 01–10

163. M.Mulak, **J. Mulak**,

**Inadequacy of the Fitted Crystal-Field Parameterizations. Case Study : The Fourth-Order Crystal-Field Splitting Moment in Cubic Systems.**

*phys. stat. solidi* (b) **259**$_6$ (2021) # 22 00005 (4). [DOI]

164. H.Naslhajian, M.Amini, M.Hosseinifard, S.M.F.Farnia, **J. Janczak**,

**Synthesis and Characterization of a New Polyoxometalate Nanocluster Containing Mo and V as an Environmentally Green Catalyst for Oxidative Degradation of Organic Pollutants from Aquatic Environments.**

*Appl. Organomet. Chem.* **36** (2022) # e6511 (10). [DOI]

165. K.C.Nawrot, M.Sharma, **B. Cichy**, A.Sharma, S.Delikanli, M.Samoć, H.V.Demir, M.Nyk,

**Spectrally Resolved Nonlinear Optical Properties of Doped *versus* Undoped Quasi-2D Semiconductor Nanocrystals : Copper and Silver Doping Provokes Strong Nonlinearity in Colloidal CdSe Nanoplatelets.**

*ACS Photonics* **9**$_1$ (2022) 256–67. [DOI]

166. **R.V. Nikonkov**, **P. Stachowiak**,

**Interaction of Phonons with Spherical Nanoparticles Embedded Densely in Simple Crystalline Matrix.**
**Case of Nitrogen–Palladium Nanocomposite.**

Физ. Низк. Темп. **48** $_{10}$ (2022) 905–12. Also in: *Low Temp. Phys.* **48** $_{10}$ (2022) 798–805. [DOI]

167. **V.I. Nizhankovskiy**,

**Temperature Evolution of Optical Transition $^{7}F_{6} \longrightarrow {}^{5}D_{4}$ in $Tb_3Ga_5O_{12}$ and $Tb_2(MoO_4)_3$ from 4.2 to 300 K.**

*J. Alloy. Compd.* **903** (2022) # 163 880 (5). [DOI]

168. M.Nowak, A.J.Dyba, **J. Janczak**, A.Morritt, L.Fábián, B.Karolewicz, Ya.Z.Khimyak, D.E.Braun, K.P.Nartowski,

**Directing Crystallization Outcomes of Conformationally Flexible Molecules: Polymorphs, Solvates, and Desolvation Pathways of Fluconazole.**

*Mol. Pharm.* **19** $_{2}$ (2022) 456–71. [DOI]

169. **N. Nowak**, **D. Czekanowska**, **J.M. Reeks**, **R.J. Wiglusz**,

**Structural, Spectroscopic, and Biological Characterization of Novel Rubidium**(I) **and Europium**(III) **Co-Doped Nano-Hydroxyapatite Materials and Their Potential Use in Regenerative Medicine.**

*Nanomaterials* **12** $_{24}$ (2022) # 4475 (20). [DOI]

170. **N. Nowak**, **R.J. Wiglusz**,

**A Study of Vanadate Group Substitution into Nanosized Hydroxyapatite Doped with $Eu^{3+}$ Ions as a Potential Tissue Replacement Material.**

*Nanomaterials* **12** $_{1}$ (2022) # 77 (20). [DOI]

171. **J. Okal**, **K. Adamska**,

**Thermal Stability of Ru–Re NPs in $H_2$ and $O_2$ Atmosphere and Their Activity in VOCs Oxidation : Effect of Ru Precursor.**

*Catal. Lett.* **152** $_{1}$ (2022) 55–74. [DOI]

172. **A. Olejniczak**, R.Rich, Z.Gryczyński, **B. Cichy**,

**Non-excitonic Defect-Assisted Radiative Transitions Are Responsible for New D-Type Blinking in Ternary Quantum Dots.**

*Nanosc. Horiz.* **7** $_{1}$ (2022) 63–76. [DOI]

173. **M. Oleszko**, **W. Stręk**, **R. Tomala**,

**Laser Driven Coherent White Emission of Graphene Bulb.**

*Opt. Commun.* **514** (2022) # 128 140 (4). [DOI]

174. **R.L. Oliveira**, K.Niciński, M.Pisarek, A.Kamińska, A.Thomas, G.Pasternak, J.C.Colmenares,

**Porous Heteroatom-Doped Carbons: Efficient Catalysts for Selective Oxidation of Alcohols by Activated Persulfate.**

*Chem Cat Chem* **14** $_{20}$ (2022) # e2022 00787 (10). [DOI]

175. P.Opletal, E.Duverger-Nédellec, K.Miliyanchuk, S.Malick, Z. Hossain, J.Custers,

**Antiferromagnetism and Mixed Valency in the New Kondo Lattice Compound $Ce_3Rh_4Sn_7$ .**

*J. Alloy. Compd.* **927** (2022) # 166 941 (?). [DOI]

176. I.V.Ovsiienko, T.A.Len, I.G.Mirzoiev, E.Yu.Beliayev, **D. Gnida**, L.Yu.Matzui, V.M.Heraskevych,

Низкотемпературний магнітоопір багатостінних нанотрубок
з ідеальною структурою. [Low-Temperature Magnetoresistance of Multi-Walled Carbon Nanotubes with Perfect Structure].

Физ. Низк. Темп. **48** $_{2}$ (2022) 103–13 [in Ukrainian]. Engl.in: *Low Temp. Phys.* **48** $_{2}$ (2022) 89–98. [DOI]
*Int.Adv.Stud.Conf.on Condensed Matter & Low Temperature Physics (CMLTP 2021)* KHARKIV, UA, 2021.06 06–12

177. B.V.Padlyak, I.I.Kindrat, Yu.O.Kulyk, S.I.Mudry, A.Drzewiecki, Yu.S.Hordieiev, V.I.Goleus, **R. Lisiecki**,

**Local Structure, Spectroscopic Properties and Intrinsic Photoluminescence of the Un-doped Lead-Containing Glasses of Different Composition.**

*Mater. Sci. Eng.* B **278** (2022) # 115 655 (13). [DOI]

178. G.R.Paixão, N.G.Camparotto, G.D.V.Brião, **R.D.L.Oliveira**, J.C.Colmenares, P.Prediger, M.G.A.Vieira,

**Synthesis of Mesoporous P-Doped Carbon and Its Application in Propranolol Drug Removal: Characterization, Kinetics and Isothermal Studies.**

*Chem. Eng. Res. Des.* **187**? (2022) 225–39. [DOI]

179. E.Paluch, **P. Sobierajska**, P.Okińczyc, J.Widelski, A.Duda-Madej, B.Krzyżanowska, P.Krzyżek, R.Ogórek, J.Szperlik, **J. Chmielowiec**, G.Gościniak, **R. Wiglusz**,

**Nanoapatites Doped and Co-doped with Noble Metal Ions as Modern Antibiofilm Materials for Biomedical Applications against Drug-Resistant Clinical Strains of *Enterococcus faecalis VRE* and *Staphylococcus aureus MRSA*.**

*Int. J. Mol. Sci.* **23** 3 (2022) # 1533 (26). [DOI]

180. **A.Paściak**, R.Marin, L.Abiven, **A.Pilch-Wróbel**, **M. Misiak**, WuJun Xu, **K. Prorok**, **O. Bezkrovnyi**, **Ł.Marciniak**, C.Chanéac, F.Gazeau, R.Bazzi, St.Roux, B.Viana, V.-P.Lehto, D.Jaque, **A.Bednarkiewicz**,

**Quantitative Comparison of the Light-to-Heat Conversion Efficiency in Nanomaterials Suitable for Photothermal Therapy.**

*ACS Appl.Mater. Interf.* **14** 29 (2022) 33 555–66. [DOI]

181. **A.Patej**, **J. Hanuza**, **M. Ptak**, A.Pelczarska, I.Szczygieł, **R.J. Wiglusz**, **A.Watras**,

**Influence of Synthesis Conditions on Structural and Spectroscopic Properties of the $K_2SrP_2O_7$ Pyrophosphate Doped with the $Eu^{3+}$ and $Eu^{2+}$ Ions.**

*J. Alloy. Compd.* **896** (2022) # 163 076 (10). [DOI]

182. **O. Pavlosiuk**, P.W.Swatek, Jian-Ping Wang, **P. Wiśniewski**, **D. Kaczorowski**,

**Giant Magnetoresistance, Fermi-Surface Topology, Shoenberg Effect, and Vanishing Quantum Oscillations in the Type-II Dirac Semimetal Candidates $MoSi_2$ and $WSi_2$.**

*Phys. Rev.* B **105** (2022) # 075141 (15). [DOI]

183. P.Peksa, A.Nowok, F.Formalik, J.K.Zaręba, J.Trzmiel, **A.Gągor**, **M. Mączka**, A.Sieradzki,

**More Complex than Originally Thought: Revisiting the Origins of the Relaxation Processes in Dimethylammonium Zinc Formate.**

*J. Mater. Chem.* C **10** 17 (2022) 6 866–77. [DOI]

184. A.J.Pelczarska, **D. Stefańska**, **A.Watras**, **L.Macalik**, I.Szczygieł, **J. Hanuza**,

**Structural and Luminescence Behavior of Nanocrystalline Orthophosphate $KMeY(PO_4)_2 : Eu^{3+}$ ($Me$ = Ca, Sr) Synthesized by Hydrothermal Method.**

*Materials* **15** 5 (2022) # 1850 (11). [DOI]

185. K.Pentoś, A.Wondołowska-Grabowska, G.Gajda, **M. Babij**, P.Chohura, **A.Zaleski**, E.Szpunar-Krok, W.Jobczyk, A.Romaniuk, **D. Gajda**,

**The Effect on the Germination Vigour of Cucumber Seeds after Receiving Magnetic Field Treatment Pre-Sowing.**

*Appl. Sci.* **12** 11 (2022) # 5490 (10). [DOI]

186. E.V.Petrenko, L.V.Omel'chenko, A.V.Terekhov, Yu.A.Kolesnichenko, **K. Rogacki**, D.M.Sergeyev, **A.L.Solovjov**,

**Temperature Dependence of Upper Critical Fields and Coherence Lengths for Optimally-Doped $YBa_2Cu_3O_{7-\delta}$ Thin Films.**

Физ. Низк. Темп. **48** 10 (2022) 856–64. Also in: *Low Temp. Phys.* **48** 10 (2022) 755–62. [DOI]

187. D.N.Petrov, N.T.Dang, T.L.Phan, B.W.Lee, **J. Ćwik**, **Yu.S. Koshkid'ko**, T.V.Manh, H.R.Park, S.C.Yu,

**Metamagnetism and Magnetocaloric Effect of LiPr(PO3)4 Crystal.**

*J. Electron. Mater.* **51** $_8$ (2022) 4 479–85. [DOI]

188. L.T.H.Phong, D.H.Manh, P.H.Nam, V.D.Lam, B.X.Khuyen, B.S.Tung, T.N.Bach, D.K.Tung, N.X.Phuc, **V.H. Tran**, Thi Lý Mai, The-Long Phan, Manh Huong Phan,

**Structural, Magnetic and Hyperthermia Properties and Their Correlation in Cobalt-Doped Magnetite Nanoparticles.**

*RSC Adv.* **12** $_2$ (2022) 698–707. [DOI]

189. **A.M. Piekarska**, **T.K. Kopeć**,

**Stability of the Replica-Symmetric Solution in the Off-Diagonally-Disordered Bose–Hubbard Model.**

*J. Stat. Mech.* **2022** (2022) # 07 3302 (26). [DOI]

190. **A.M. Piekarska**, **T.K. Kopeć**,

**Emergence of a Superglass Phase in the Random-Hopping Bose–Hubbard Model.**

*Phys. Rev.* B **105** (2022) # 17 4203 (15). [DOI]

191. **A.P. Pikul**, **R. Idczak**, P.Sobota, W.Nowak, M.Pasturel, **V.H. Tran**,

**Ferromagnetic Ordering in $UFe_{0.40}Ge$ Studied by $^{57}Fe$ Mössbauer Spectroscopy.**

*J. Magn. Magn. Mater.* **553** (2022) # 169 238 (6). [DOI]

192. **A.P. Pikul**, **M. Szlawska**, X.Ding, **J. Sznajd**, M.Ohashi, **D.A.Kowalska**, M.Pasturel, K.Gofryk,

**Competition of Magnetocrystalline Anisotropy of Uranium Layers and Zigzag Chains in $UNi_{0.34}Ge_2$ Single Crystals.**

*Phys. Rev. Mater.* **6** $_{10}$ (2022) # 10 4408 (14). [DOI]

193. B.Pilarek, **M. Ptak**, **D. Stefańska**, **A.Watras**, P.Peksa, A.Sieradzki, I.Szczygieł, **J. Hanuza**,

**Optical Properties of $Nd^{3+}$ Ions in $(Ca_4Nb_2)_{1-x}Nd_{2x}O_{9-6x}$ Solid Solution.**

*J. Mol. Struct.* **1250** (2022) # 131 715 (7). [DOI]

194. **A.Pilch-Wróbel**, **A.M. Kotulska**, S.Lahtinen, T.Soukka, **A.Bednarkiewicz**,

**Engineering the Compositional Architecture of Core-Shell Upconverting Lanthanide-Doped Nanoparticles for Optimal Luminescent Donor in Resonance Energy Transfer: The Effects of Energy Migration and Storage.**

*Small* **18** $_{18}$ (2022) # 22 00 464 (17). [DOI]

195. **A.Pilch-Wróbel**, **K. Ledwa**, **A.M. Kotulska**, **A.Bednarkiewicz**,

**The Influence of $Ce^{3+}$ Codoping on Upconversion in Nanocrystalline $NaYF_4 : Yb^{3+}, Tm^{3+}$.**

*J. Lumin.* **251** (2022) # 119 116 (10). [DOI]

196. L.Piliai, P.Matvija, T.N.Dinhová, I.Khalakhan, T.Skála, Z.Doležal, **O. Bezkrovnyi**, **L.Kępiński**, M.Vorokhta, I.Matolínová,

*In situ* **Spectroscopy and Microscopy Insights into the CO Oxidation Mechanism on $Au / CeO_2$ (111).**

*ACS Appl.Mater. Interf.* **14** $_{50}$ (2022) 56 280–89. [DOI]

197. **W. Piotrowski**, L.Dalipi, **K. Elżbieciak-Piecka**, **A.Bednarkiewicz**, B.Fond, **Ł.Marciniak**,

**Self-Referenced Temperature Imaging with Dual Light Emitting Diode Excitation and Single-Band Emission of $AVO_4 : Eu^{3+}$ ($A = Y, La, Lu, Gd$) Nanophosphors.**

*Adv. Photon. Res.* **3** $_6$ (2022) # 2100 139 (11). [DOI]

198. **W. Piotrowski**, M.Kuchowicz, M.Dramićanin, **Ł.Marciniak**,

**Lanthanide Dopant Stabilized $Ti^{3+}$ State and Supersensitive $Ti^{3+}$-Based Multiparametric Luminescent Thermometer in $SrTiO_3 : Ln^{3+}$ ($Ln^{3+} = Lu^{3+}, La^{3+}, Tb^{3+}$) Nanocrystals.**

*Chem. Eng. J.* **428** (2022) # 131 165 (7). [DOI]

199. **W.M. Piotrowski**, **K. Maciejewska**, L.Dalipi, B.Fond, **Ł.Marciniak**,

**$Cr^{3+}$ Ions as an Efficient Antenna for the Sensitization and Brightness Enhancement of $Nd^{3+}$, $Er^{3+}$-Based Ratiometric Thermometer in $GdScO_3$ Perovskite Lattice.**

*J. Alloy. Compd.* **923** (2022) #166 343 (9). [DOI]

200. **W.M. Piotrowski**, Z.Ristić, M.Dramićanin, **Ł.Marciniak**,

**Modification of the Thermometric Performance of the Lifetime-Based Luminescent Thermometer Exploiting $Ti^{3+}$ Emission in $SrTiO_3$ and $CaTiO_3$ by Doping with Lanthanide Ions.**

*J. Alloy. Compd.* **906** (2022) #164 398 (9). [DOI]

201. **E. Piskorska-Hommel**, **A.Ciupa-Litwa**,

**Local Structure Study of the Fe Ions in Mixed-Valence Iron(II)–Iron(III) Metal Formate Frameworks.**

*Polyhedron* **223** (2022) #115 963 (7). [DOI]

202. J.Plewa, M.Płońska, K.Osińska, **R. Tomala**,

**Crystallization of Lanthanide ($Ho^{3+}$ and $Tm^{3+}$) Ions Doped Tellurite Glasses.**

*Materials* **15**$_7$ (2022) #2662 (15). [DOI]

203. G.Politova, I.Tereshina, I.Ovchenkova, A.-R.Aleroev, **Yu.Koshkid'ko**, **J. Ćwik**, **H. Drulis**,

**Investigation of Magnetocaloric Properties in the $TbCo_2-H$ System.**

*Crystals* **12**$_{12}$ (2022) #1783 (10). [DOI]

204. K.Posmyk, N.Zawadzka, M.Dyksik, A.Surrente, D.K.Maude, T.Kazimierczuk, A.Babiński, M.R.Molas, W.Paritmongkol, **M. Mączka**, W.A.Tisdale, P.Płochocka, M.Baranowski,

**Quantification of Exciton Fine Structure Splitting in a Two-Dimensional Perovskite Compound.**

*J. Phys. Chem. Lett.* **13**$_{20}$ (2022) 4 463–69. [DOI]

205. **M. Ptak**, E.Tomaszewicz, **R.M. Kowalski**, **P. Solarz**, P.Ropuszyńska-Robak, **L.Macalik**, **J. Hanuza**,

**Phonon and Luminescence Properties of Defected Lead Praseodymium Tungstate Solid Solution.**

*J. Lumin.* **243** (2022) #118 625 (8). [DOI]

206. Z.Razmara, **J. Janczak**,

**Single Crystal Structure Features of a New Synthesized Heteronuclear Mn / Cu Complex, a Precursor for Heterogeneous Catalytic Conversion of CO.**

*J. Mol. Struct.* **1263** (2022) #133 109 (11). [DOI]

207. S.Regmi, G.Dhakal, F.Ch.Kabeer, N.Harrison, F.Kabir, A.P.Sakhya, K.Gofryk, **D. Kaczorowski**, P.M.Oppeneer, M.Neupane,

**Observation of Multiple Nodal Lines in SmSbTe.**

*Phys. Rev. Mater.* **6**$_3$ (2022) L 03 1201 (7). [DOI]

208. S.Sh.Rekhviashvili, **W. Stręk**,

**Thermal Radiation of Graphene.**

*Opt. Spectrosc.* **130**$_1$ (2022) 18–22. [DOI]
Russ.orig.in: *Opt. Spektrosk.* **129**$_{10}$ (2021) 1301–5 [DOI]

209. **J. Rewak-Soroczyńska**, A.Dorotkiewicz-Jach, Z.Drulis-Kawa, **R.J. Wiglusz**,

**Culture Media Composition Influences the Antibacterial Effect of Silver, Cupric, and Zinc Ions against** *Pseudomonas aeruginosa.*

*Biomolecules* **12**$_7$ (2022) #963 (15). [DOI]

210. **J. Rewak-Soroczyńska**, **N. Nowak**, **S. Targońska**, A.Piecuch, **R.J. Wiglusz**,

**The Study of Nanosized Silicate-Substituted Hydroxyapatites Co-doped with $Sr^{2+}$ and $Zn^{2+}$ Ions Related to Their Influence on Biological Activities.**

*Curr. Issues Mol. Biol.* **44**$_{12}$ (2022) 6 229–46. [DOI]

211. Z.Ristić, **W. Piotrowski**, M.Medić, J.Periša, Ž.M.Antić, **Ł.Marciniak**, M.D.Dramićanin,

**Near-Infrared Luminescent Lifetime-Based Thermometry with $Mn^{5+}$-Activated $Sr_3(PO_4)_2$ and $Ba_3(PO_4)_2$ Phosphors.**

*ACS Appl. Electron. Mater.* **4**$_3$ (2022) 1057–62. [DOI]

212. E.I.Rogacheva, **O. Pavlosiuk**, A.V.Meriuts, T.N.Shelest, A.Yu.Sipatov, O.N.Nashchekina, K.V.Novak, **D. Kaczorowski**,

**Quantum Interference Phenomena and Electron–Electron Interaction in Topological Insulator $Bi_2Se_3$ Thin Polycrystalline Films.**

*Thin Solid Films* **743** (2022) # 139 070 (10). [DOI]

213. H.Ronduda, M.Zybert, W.Patkowski, A.Ostrowski, P.Jodłowski, **D. Szymański**, **L.Kępiński**, W.Raróg-Pilecka,

**Development of Cobalt Catalyst Supported on $MgO-Ln_2O_3$ ($Ln$ = La, Nd, Eu) Mixed Oxide Systems for Ammonia Synthesis.**

*Int. J. Hydrog. Energy* **47**$_{10}$ (2022) 6 666–78. [DOI]

214. H.Ronduda, M.Zybert, W.Patkowski, A.Ostrowski, P.Jodłowski, **D. Szymański**, W.Raróg-Pilecka,

**Co Supported on Mg−La Mixed Oxides as an Efficient Catalyst for Ammonia Synthesis.**

*Int. J. Hydrog. Energy* **47**$_{84}$ (2022) 35 689–700. [DOI]

215. M.Rosmus, N.Olszowska, **Z. Bukowski**, P.Starowicz, P.Piekarz, A.Ptok,

**Electronic Band Structure and Surface States in Dirac Semimetal $LaAgSb_2$.**

*Materials* **15**$_{20}$ (2022) # 7168 (19). [DOI]

216. **W. Ryba-Romanowski**, **J. Komar**, **R. Lisiecki**,

**Examining the Spectroscopic and Thermographic Qualities of $Er^{3+}$-Doped Oxyfluoride Germanotellurite Glasses.**

*Materials* **15**$_{21}$ (2022) # 7651 (14). [DOI]

217. **M. Sahakyan**, **V.H. Tran**,

**The Density Functional Theory Study of Substitution Effect in Antiferromagnetic $USn_{0.5}Sb_{1.5}$.**

*J. Solid State Chem.* **312** (2022) # 123 174 (9). [DOI]

218. W.Sąsiadek, I.Bryndal, T.Lis, M.Wandas, **J. Hanuza**,

**Synthesis and Physicochemical Properties of the Methyl-nitro-pyridine- Disulfide : X-ray, NMR, Electron Absorption and Emission, IR and Raman Studies and Quantum Chemical Calculations.**

*J. Mol. Str.* **1257** (2022) # 132 535 (10). [DOI]

219. C.V.Savich, O.V.Samojlov, U.Kurbanov, **A.L.Solovjov**, R.V.Vovk,

**Excess Conductivity of HTSC Ceramics $YBa_2Cu_3O_{7-\delta}$ with $TiO_2$ Impurities.**

Физ. Низк. Темп. **48**$_{10}$ (2022) ???–??. Also in: *Low Temp. Phys.* **48**$_{10}$ (2022) 775–79. [DOI]

220. K.Senthilkumar, N.Kanagathara, V.Ragavendran, V.Natarajan, **M.K. Marchewka**,

**Quantum Chemical Computational Studies of 1,3-Diammonium Propylarsenate: A Semi Organic Crystalline Salt.**

*Inorg. Nano-Met. Chem.* **52**$_{10}$ (2022) 1352–63. [DOI]

221. N.Shioda, K.Kumeda, H.Fukazawa, T.Ohama, Y.Kohori, **D. Das**, **J. Bławat**, **D. Kaczorowski**, K.Sugimoto,

**Determination of the Magnetic Structures in the Heavy Fermion Superconductor $Ce_3PtIn_{11}$.**

*J. Phys.: Conf. Ser.* **2164** (2022) # 01 2032 (4). [DOI]

*2020 Int.Conf.on Strongly Correlated Electron Systems (SCES 2020)* (Online Event) CAMPINAS, SP, BR, 2021.09 27 –.10 01

222. V.V.Shymanovska, T.A.Gavrilko, T.A.Khalyavka, **J. Baran**,

**Phenothiazine Dye Molecular Interaction with Nanocrystalline $TiO_2$ Surface: FTIR and Raman Spectroscopy Study.**

*Mol. Cryst. Liq. Cryst.* **749** $_1$ (2021) 107–23. [DOI]

$25^{th}$ Galyna Puchkovska *Int.Sch.-Semin.on Spectroscopy of Molecules & Crystals (XXV ISSSMC)* KYIV, UA, 2021.09 21–24

223. M.Sikora, K.Krajewska, K.Marcinkowska, A.Raciborska, **R.J. Wiglusz**, A.Śmieszek,

**Comparison of Selected Non-Coding RNAs and Gene Expression Profiles between Common Osteosarcoma Cell Lines.**

*Cancers* **14** $_{18}$ (2022) # 4533 (19). [DOI]

224. M.Šimėnas, S.Balčiūnas, **A.Gągor**, A.Pieniążek, K.Tolborg, M.Kinka, V.Klimavicius, Š.N.Svirskas, V.Kalendra, **M. Ptak**, **D. Szewczyk**, A.P.Herman, R.Kudrawiec, A.Sieradzki, R.Grigalaitis, A.Walsh, **M. Maączka**, J.R.Banys,

**Mixology of $MA_{1-x}EA_xPbI_3$ Hybrid Perovskites: Phase Transitions, Cation Dynamics, and Photoluminescence.**

*Chem. Mater.* **34** $_{22}$ (2022) 10 104–12. [DOI]

225. M.Šimėnas, S.Balčiūnas, **M. Maączka**, J.Banys,

**Phase Transition Model of FA Cation Ordering in $FAPbX_3$ ($X$ = Br, I) Hybrid Perovskites.**

*J. Mater. Chem.* C **10** $_{13}$ (2022) 5 210–17. [DOI]

226. **A.Siudzińska**, S.M.Gorantla, J.Serafińczuk, R.Kudrawiec, **D. Hommel**, A.Bachmatiuk,

**Electron Beam-Induced Reduction of Cuprite.**

*Metals* **12** $_{12}$ (2022) # 2151 (8). [DOI]

227. **A.Ślebarski**, J.Deniszczyk,

**Electronic Structure Studies of Kondo Lattice Compounds $CeRhSn_3$ and $CeRuSn_3$ : Comparative Study.**

*J. Magn. Magn. Mater.* **563** (2022) # 169 997 (10). [DOI]

228. **A.Ślebarski**, J.Deniszczyk,

**Experimental Evidence for Fractional Valence of La in $LaAl_2$ : Electronic Structure from X-ray Photoelectron Spectroscopy and Band Structure Calculations.**

*Phys. Rev.* B **105** (2022) # 245154 (6). [DOI]

229. **A.Ślebarski**, M.Fijałkowski, M.M.Maśka,

**Damping in Yttrium Iron Garnet Films with Interface.**

*Phys. Rev.* B **106** (2022) # 075145 (15). [DOI]

230. **S. Smółka**, **M. Mączka**, **D. Drozdowski**, **D. Stefańska**, **A.Gągor**, A.Sieradzki, J.K.Zaręba, **M. Ptak**,

**Effect of Dimensionality on Photoluminescence and Dielectric Properties of Imidazolium Lead Bromides.**

*Inorg. Chem.* **61** $_{38}$ (2022) 15 225–38. [DOI]

231. M.Sobiech, K.Synoradzki, **T.J. Bednarchuk**, K.Sobczak, M.Janczura, J.Giebułtowicz, P.Luliński,

**Impact of Structure and Magnetic Parameters of Canocrystalline Cores on Surface Properties of Molecularly Imprinted Nanoconjugates for Analysis of Biomolecules: A Case of Tyramine.**

*Microchem. J.* **179** (2022) # 107 571 (10). [DOI]

232. **P. Sobierajska**, **N. Nowak**, J. Rewak-Soroczyńska, **S. Targońska**, A.Lewińska, **Ł.Grosman**, **R.J. Wiglusz**,

**Investigation of Topography Effect on Antibacterial Properties and Biocompatibility of Nanohydroxyapatites Activated with Zinc and Copper Ions: *In vitro* Study of Colloids, Hydrogel Scaffolds and Pellets.**

*Biomat. Adv.* **134** (2022) # 112 547 (25). [DOI]

Former Journal title: *Mater. Sci. Eng.* **C**

233. **P. Sobierajska**, A.Serwotka-Suszczak, **S. Targońska**, **D. Szymański**, K.Marycz, **R. Wiglusz**,

**Synergistic Effect of** Toceranib **and Nanohydroxyapatite as a Drug Delivery Platform — Physicochemical Properties and *in vitro* Studies on *Mastocytoma* Cells.**

*Int. J. Mol. Sci.* **23**$_4$ (2022) # 1944 (16). [DOI]

234. **P. Sobota**, R.Topolnicki, T.Ossowski, T.Pikula, **A.Pikul**, R.Idczak,

**Superconductivity in the High-Entropy Alloy $(NbTa)_{0.67}(MoHfW)_{0.33}$.**

*Phys. Rev.* B **106** (2022) # 184512 (10). [DOI]

235. **A.L.Solovjov**, G.Ya.Khadzhai, R.V.Vovk, A.V.Mazepulin, A.Chroneos,

**Impact of Temperature and Pressure on Phase Separation in the Basal Plane of $Y_{0.77}Pr_{0.23}Ba_2Cu_3O_{7-\delta}$ Single Crystals.**

Физ. Низк. Темп. **48**$_{10}$ (2022) 865–69. Also in: *Low Temp. Phys.* **48**$_{10}$ (2022) 763–67. [DOI]

236. **A.L.Solovjov**, L.V.Omel'chenko, E.V.Petrenko, G.Ya.Khadzhai, D.M.Sergeyev, A.Chroneos, R.V.Vovk,

**Influence of Electron Irradiation on Fluctuation Conductivity and Pseudogap in $YBa_2Cu_3O_{7-\delta}$ Single Crystals.**

Физ. Низк. Темп. **48**$_9$ (2022) 792–80?. Also in: *Low Temp. Phys.* **48**$_9$ (2022) 700–12. [DOI]

237. **D. Stefańska**,

**Effect of Organic Cation on Optical Properties of $[A]Mn(H_2POO)_3$ Hybrid Perovskites.**

*Molecules* **27**$_{24}$ (2022) # 8953 (10). [DOI]

238. **D. Stefańska**, **M. Ptak**, **M. Mączka**,

**Synthesis, Photoluminescence and Vibrational Properties of Aziridinium Lead Halide Perovskites.**

*Molecules* **27**$_{22}$ (2022) # 7949 (12). [DOI]

239. **J. Stefańska**, **A.Bednarkiewicz**, **Ł.Marciniak**,

**Advancements of Excited State Absorption Based Luminescence Thermometry.**

*J. Mater. Chem.* C **10**$_{15}$ (2022) 5 744–82. [DOI]

240. **M. Stefański**, **V. Boiko**, **M. Ptak**, **W. Stręk**,

**Effect of $Yb^{3+}$ Concentration on the Optical Properties and Trap Creation in $CsPbCl_3$ Perovskite Powder.**

*J. Alloy. Compd.* **905** (2022) # 164216 (8). [DOI]

241. A.Stoyanova-Ivanova, S.Kolev, V.Petrova, O.Petkov, **L.M. Tran**, **M. Babij**, **A.Zaleski**, V.Mikli, D.Kovacheva,

**Physicochemical Study of Bulk $^{123}Dy$ Doped with nano-$Fe_3O_4$.**

*Bulg. Chem. Commun.* **54** Spec.Iss. B1 (2022) 71–76.
Note: doi 10.34049/bcc.54.B1.0404 does not link properly!
*9th Int.Conf.on Modern Trends in Science (FMNS-2021)* BLAGOEVGRAD, BG, 2021.09 15–19

242. **W. Stręk**, **M. Oleszko**, **O. Wiewiórski**, **R. Tomala**, A.Konovalova, O.Ignatenko, **M. Chaika**,

**Laser Induced White Emission of Diamond.**

*J. Chem. Phys.* **157**$_{13}$ (2022) # 13 4708 (6). [DOI]

243. **W. Stręk**, **P. Wiewiórski**, **W. Miśta**, **R. Tomala**, **M. Stefański**,

**Laser-Induced Generation of Hydrogen from Methanol Vapor.** Short Commun.

*Int. J. Hydrog. Energy* **47**$_{63}$ (2022) 27 032–37. [DOI]

244. **W. Stręk**, **P. Wiewiórski**, **W. Miśta**, **R. Tomala**, **M. Stefański**,

**Laser-Induced Generation of Hydrogen in Water by Using Graphene Target.**

*Molecules* **27**$_3$ (2022) # 718 (5). [DOI]

245. **M. Szalkowski**, D.Kowalska, J.D. Janna Olmos, J.Kargul, S.Maćkowski,

**Improving Photostability of Photosystem I- Based Nanodevice by Plasmonic Interactions with Planar Silver Nanostructures.**

*Int. J. Mol. Sci.* **23** $_{6}$ (2022) # 2976 (14). [DOI]

246. **M. Szalkowski**, A.Surrente, K.Wiwatowski, Zhuo Yang, Nan Zhang, J.D. Janna Olmos, J.Kargul, P.Płochocka, S.Maćkowski,

**Spectral Dependence of the Energy Transfer from Photosynthetic Complexes to Monolayer Graphene.**

*Int. J. Mol. Sci.* **23** $_{7}$ (2022) # 3493 (10). [DOI]

247. A.Szczurek, L.Th.N.Tran, S.Varas, D.Lewandowski, A.Gąsiorek, B.Babiarczuk, A.Carlotto, A.Chiasera, M.Ferrari, **A. Łukowiak**, J.Krzak,

**$SiO_2 - TiO_2$ Hybrid Coatings Applied on Polymeric Materials for Flexible Photonics Applications.**

*Proc. SPIE* **12142** (2022) # 12 142 08 (7). [DOI]

*Fiber Lasers & Glass Photonics: Materials through Applications III,* STRASBOURG, FR, 2022.05 09–20

248. **D. Szewczyk**, M.A.Ramos,

**Low Temperature Thermal Properties of Nanodiamond Ceramics.**

*Crystals* **12** $_{12}$ (2022) # 1774 (12). [DOI]

249. P.Szklarz, R.Jakubas, W.Medycki, **A. Gągor**, J.Cichos, M.Karbowiak, G.Bator,

**$(C_3N_2H_5)_3Sb_2I_9$ and $(C_3N_2H_5)_3Bi_2I_9$ : Ferroelastic Lead-Free Hybrid Perovskite-Like Materials as Potential Semiconducting Absorbers.**

*Dalton Trans.* **51** $_{5}$ (2022) 1850–60. [DOI]

250. **M. Szlawska**, M.Pasturel, **D. Kaczorowski**, **A. Pikul**,

**Ferromagnetism in Structurally Disordered $UFe_{0.39}Ge_2$ .**

*J. Alloy. Compd.* **892** (2022) # 162 032 (6). [DOI]

251. **J. Sznajd**,

**Ising Spin Ladder with Trimer Rungs and Next-Nearest-Neighbor Coupling: Frustration in Physics and Agent Models.**

*J. Stat. Mech.* **2022** (2022) # 02 3402 (21). [DOI]

252. K.Sztyler, **R.J. Wiglusz**, M.Dobrzyński,

**Review on Preformed Crowns in Pediatric Dentistry – The Composition and Application.**

*Materials* **15** $_{6}$ (2022) # 2081 (20). [DOI]

253. **K. Szyszka**, **N. Nowak**, **R.M. Kowalski**, J.Żukrowski, **R.J. Wiglusz**,

**Anomalous Luminescence Properties and Cytotoxicity Assessment of $Sr_3(PO_4)_2$ Co-doped with $Eu^{2+/3+}$ Ions for Luminescence Temperature Sensing.**

*J. Mater. Chem.* C **10** $_{23}$ (2022) 9 092–105. [DOI]

254. P.K.Tanwar, M.S.Alam, M.Ahmad, **D. Kaczorowski**, **M. Matusiak**,

**Severe Violation of the Wiedemann–Franz Law in Quantum Oscillations of NbP.**

*Phys. Rev.* B **106** (2022) L 04 1106 (6). [DOI]

255. **S. Targońska**, M.Dobrzyńska-Mizera, **M. Wujczyk**, **J. Rewak-Soroczyńska**, M.Knitter, K.Dopierała, J.Andrzejewski, **R.J. Wiglusz**,

**New Way to Obtain the Poly(L-lactide-*co*-D,L-lactide) Blend Filled with Nanohydroxyapatite as Biomaterial for 3D-Printed Bone-Reconstruction Implants.**

*Eur. Polym. J.* **165** (2022) # 110 99 (9). [DOI]

256. **S. Targońska**, S.Dominiak, **R.J. Wiglusz**, M.Dominiak,

**Investigation of Different Types of Micro- and Nanostructured Materials for Bone Grafting Application.**

*Nanomaterials* **12** $_{21}$ (2022) # 3752 (13). [DOI]

257. **S. Targońska, K. Szyszka, A.Watras, R.J. Wiglusz,**

**Influence of the Fluorine Ion Content on Luminescence Properties of the $Eu^{II+/III+}$-Doped Silicate-Substituted Apatite.**

*J. Alloy. Compd.* **911** (2022) #164985 (9). [DOI]

258. A.Tarka, M.Zybert, H.Ronduda, W.Patkowski, B.Mierzwa, **L.Kępiński**, W.Raróg-Pilecka,

**On Optimal Barium Promoter Content in a Cobalt Catalyst for Ammonia Synthesis.**

*Catalysts* **12**$_2$ (2022) #199 (14). [DOI]

259. L.O.Tcelykh, A.A.Vashchenko, A.Medved'ko, **Ł.Marciniak**, A.E.Aleksandrov, A.S.Goloveshkin, L.Lepnev, E.Latipov, A.S.Burlov, V.V.Utochnikova,

**Ytterbium Complex with 2-(Tosylamino)-benzylidene-*N*-(2-halobenzoyl)-Hydrazones for Solution-Processable NIR OLEDs.**

*J. Mater. Chem.* C **10**$_4$ (2022) 1371–80. [DOI]

260. I.S.Tereshina, D.I.Gorbunov, A.Yu.Karpenkov, M.Doerr, **H. Drulis**, S.A.Granovski, E.A.Tereshina-Chitrová,

**High-Field Magnetization Study of Laves Phase $(Gd, Y, Sm)Fe_2$ −H.**

*IEEE Magn. Lett.* **892** (2022) #2504605. [DOI]

261. **P.E. Tomaszewski,**

**Discovery of a New Type of Sillenite Structure.**
**Comments on the Papers by Nitin Kumar *et al.* on the $BiFeO_3$ Crystal Co-doped by Co / Ti and Ni / Ti Ions** and Published in *Ceram. Int.* **45** (2019) 822– and **47** (2021) 22147–.

*Ceram. Int.* **48**$_6$ (2022) 8790–1. [DOI]

262. **P.E. Tomaszewski,**

**Comments on the Paper "Effect of Calcination Temperature on Structural and Morphological Properties of Bismuth Ferrite Nanoparticles" by R. Verma *et al.*,** and Published in *Ceram. Int.* **47** (2021) 3680–.

*Ceram. Int.* **48**$_6$ (2022) 8792 (only). [DOI]

263. **P.E. Tomaszewski,**

**Comments on the Paper on the Double Doped $BiFeO_3$ Crystal by Nitin Kumar *et al.*,** and published in *J.Alloy.Compd.* 688 (2016) 858–.

*J. Alloy. Compd.* **895,** Pt 1 (2022) #162466 (2). [DOI]

264. **P.E. Tomaszewski,**

**Comments on the Paper on the "Multiferroic $Bi(Cd_{0.5}Ti_{0.5})O_3 - BiFeO_3$ Solid Solution" written by N. Kumar *et al.* and published in *J.Alloy.Compd.* 747 (2018) 895–.**

*J. Alloy. Compd.* **895,** Pt 2 (2022) #162527 (2). [DOI]

265. **P.E. Tomaszewski,**

**Comment on the Paper by B. Mohanty *et al.* on the BLFO Ceramics.** [*J. Alloy. Compd.* **863** (2021) #158060.].

*J. Alloy. Compd.* **901** (2022) #163629 (1). [DOI]

266. **P.E. Tomaszewski,**

**Erratum to: Structural, electrical and magnetic characteristics of Ni / Ti modified $BiFeO_3$ lead free multiferroic material.** (*J. Mater. Sci.: Mater. Electron.*, (2017), **28**, 9, 6673–84, [DOI]).

*J. Mater. Sci.: Mater. Electron.* **33**$_{16}$ (2022) 12566–70. [DOI]

267. **P.E. Tomaszewski,**

**Comments on the Paper "Effect of Sr substitution on the structural properties of LaCrO3 perovskite".** (by R. Kumar, K. Dev Singh, and R. Kumar, and published in *J. Mater. Sci.: Mater. Electron.* **33**, 12039–... (2022)).

*J. Mater. Sci.: Mater. Electron.* **33**$_{26}$ (2022) 20463–65. [DOI]

268. **P.E. Tomaszewski**,

**Comments on the Paper on Vanadium Based Double Perovskite $BaSrFeVO_6$ by S. Bhattacharjee *et al.* and Published in *Mater. Sci. Semicon. Proc.* 123 (2021) # 105503.**

*Mater. Sci. Semicond. Process.* **142** (2022) # 106 466 (3). [DOI]

269. **P.E. Tomaszewski**,

**Comment on the Paper by S.K. Parida on the Effect of Cu and W Dopants in $CaMnO_3$ Ceramics.** [Phase Transit. 94 (2021) 1033–].

*Phase Trans.* **95** $_4$ (2022) 251–52. [DOI]

270. **P.E. Tomaszewski**,

**Phase Diagram for Nanocrystals.**

*Phase Trans.* **95** $_4$ (2022) 340–44. [DOI]

271. **P.E. Tomaszewski**,

**Comments on the Paper on Ca-Modified Double Perovskite $Ba_2FeVO_6$ by S. Bhattacharjee *et al.* and Published in *Physica* B 624 (2022) # 413 373.**

*Physica* B **631** (2022) # 413 708 (4). [DOI]

272. **P.E. Tomaszewski**,

**Comment on "Structural, electrical, and multiferroic characteristics of lead-free multiferroic: $Bi(Co_{0.5}Ti_{0.5})O_3$–$BiFeO_3$ solid solution." by N. Kumar, A. Shukla, N. Kumar, R. Choudhary, and A. Kumar, *RSC Adv.*, 8 (2018) 36 939–.**

*RSC Adv.* **12** $_{46}$ (2022) 30 008–10. [DOI]
For the Reply see: *ibid.*, **12** $_{50}$ (2022) 32 567–68. [DOI]

273. Thi Ngoc Lam Tran, A.Chiasera, **A.Łukowiak**, M.Ferrari,

**$Eu^{3+}$ as a Powerful Structural and Spectroscopic Tool for Glass Photonics.**

*Materials* **15** $_5$ (2022) # 1847 (11). [DOI]

274. Thi Ngoc Lam Tran, A.Szczurek, **A.Łukowiak**, A.Chiasera,

**A Review on Rare-Earth Activated $SnO_2$-Based Photonic Structures: Synthesis, Fabrication and Photoluminescence Properties.**

*Opt. Mater.* X **13** (2022) # 100 140 (13). [DOI]

275. Thi Ngoc Lam Tran, A.Szczurek, A.Carlotto, S.Varas, G.C.Righini, M.Ferrari, J.Krzak, **A.Łukowiak**, A.Chiasera,

**Sol–Gel-Derived Transparent Glass-Ceramics for Photonics.**

*Opt. Mater.* **130** (2022) # 112 577 (13). [DOI]

276. Thi Ngoc Lam Tran, A.Szczurek, A.Carlotto, A.Cian, S.Varas, E.Iacob, G.Ischia, O.Sayginer, S.Berneschi, G.N.Conti, R.Balda, J.Fernandez, G.C.Righini, M.Bolani, F.Scotognella, D.Zonta, O.Bursi, **P. Głuchowski**, **A.Łukowiak**, M.Ferrari, A.Chiasera,

**Photon Management in $SiO_2-SnO_2 : Yb^{3+}$ Hybrid 1D Microcavity.**

*Proc. SPIE* **12142** (2022) # 12 142 0A (7). [DOI]
*Fiber Lasers & Glass Photonics: Materials through Applications III,* STRASBOURG, FR, 2022.05 09–20

277. Thi Ngoc Lam Tran, A.Szczurek, S.Varas, C.Armellini, F.Scotognella, A.Chiasera, M.Ferrari, G.C.Righini, **A.Łukowiak**,

**Rare-Earth Activated $SnO_2$ Photoluminescent Thin Films on Flexible Glass: Synthesis, Deposition and Characterization.**

*Opt. Mater.* **124** (2022) # 111 978 (7). [DOI]

278. **K. Trejgis**, **K. Ledwa**, **A.Bednarkiewicz**, **Ł.Marciniak**,

**Impact of Host Composition and Dopant Ion Concentration on the Thermometric Properties of a $Eu^{3+}$ Activated Fluoride-Based Single-Band Ratiometric Luminescent Thermometer.**

*J. Alloy. Compd.* **898** (2022) # 162 839 (9). [DOI]

279. **K. Trejgis**, **K. Ledwa**, **A.Bednarkiewicz**, **Ł.Marciniak**,

**A Single-Band Ratiometric Luminescent Thermometer Based on Tetrafluorides Operating Entirely in the Infrared Region.**

*Nanosc. Adv.* **4**$_2$ (2022) 437–46. [DOI]

280. **K. Trejgis**, **K. Ledwa**, LeiPeng Li, **Ł.Marciniak**,

**Effect of the Nanoparticle Size on Thermometric Properties of a Single-Band Ratiometric Luminescent Thermometer in $NaYF_4 : Nd^{3+}$.**

*J. Mater. Chem.* C **10**$_8$ (2022) 3 006–14. [DOI]

281. **K. Trejgis**, **K. Ledwa**, **K. Maciejewska**, LeiPeng Li, **Ł.Marciniak**,

**Modulation of Thermometric Performance of Single-Band-Ratiometric Luminescent Thermometers Based on Luminescence of $Nd^{3+}$- Activated Tetrafluorides by Size Modification.**

*Sci. Rep.* **12** (2022) # 5847 (14). [DOI]

282. • **M. Trzebiatowska**, **D.A.Kowalska**, M.A.Gusowski, E.Jach, A.Ciżman,

**Dielectric Switching in Correlation with the Structural Phase Transitions in Tetrapropylammonium Perchlorate.**

*Phys. Chem. Chem. Phys.* **25**$_2$ (2022) 1269–78. [DOI]

283. A.Tursina, V.Chernyshev, S.Dunaev, **D. Gnida**, **D. Kaczorowski**,

**New Ternary Aluminides $Ce_{0.67}Pd_2Al_5$ , $Ce_{1.33}Pd_3Al_8$ , and $Ce_{1.74}Pd_{5.29}Al_{11.71}$ .**

*J. Alloy. Compd.* **918** (2022) # 165 670 (?). [DOI]

284. **T.H.Q. Vu**, **B. Bondzior**, **D. Stefańska**, **P.J. Dereń**,

**An $Er^{3+}$ Doped $Ba_2MgWO_6$ Double Perovskite: A Phosphor for Low-Temperature Thermometry.**

*Dalton Trans.* **51**$_{20}$ (2022) 8 056–65. [DOI]

285. K.Walczak, K.Redel, R.Idczak, R.Konieczny, K.Idczak, **V.H. Tran**, A.Plewa, M.Ziąbka, M.Rybski, J.Tobola, J.Molenda,

**Transport and Electrochemical Properties of $Na_xFe_{1-y}Mn_yO_2$–Cathode Materials for Na-Ion Batteries. Experimental and Theoretical Studies.**

*Energy Techn.* **10**$_4$ (2022) # 21 01105 (13). [DOI]

286. YangXiao Wang, WenXin Liu, ZhongHan Zhang, **A.Strzęp**, Jie Liu, ZhenQiang Chen, FengKai Ma, LiangBi Su,

**Laser-Diode-Pumped $Tm : SrF_2$ Single Crystal for High Efficiency CW Laser Operation at $\sim 2\,\mu m$.**

*Opt. Lett.* **47**$_5$ (2022) 1117–20. [DOI]

287. J.A.Wilcox, M.J.Grant, L.Malone, C.Putzke, **D. Kaczorowski**, T.Wolf, F.Hardy, C.Meingast, J.G.Analytis, J.H.Chu, I.R.Fisher, A.Carrington,

**Observation of the Non-linear Meissner Effect.**

*Nature Commun.* **13** (2022) # 1201 (6). [DOI]

288. **M.J. Winiarski**, **D.A.Kowalska**,

**Electronic Structure of Hexagonal *RE*N (*RE* = Sc, Y, Lu) Materials.**

*Mater. Chem. Phys.* **292** (2022) # 126 794 (5). [DOI]

289. A.Władyczyn, **A.Gągor**, K.Ślepokura, Ł.John,

**Hydroxyalkyl-Substituted Double-Decker Silsesquioxanes: Effective Separation of *cis* and *trans* Isomers.**

*Inorg. Chem. Front.* **9**$_{16}$ (2022) 3 999–4 008. [DOI]

290. A.Wojciechowska, C. de Graaf, T.Rojek, M.Jerzykiewicz, M.Malik, **A.Gągor**, M.Duczmal,

**A Rare Diiodo-L-tyrosine Copper(II) Complexes : Crystal and Molecular Structure of Materials Stabilized by Weak Interactions.**

*Polyhedron* **219** (2022) # 115 780 (13). [DOI]

291. **P. Woźniak**, **P. Kraszkiewicz**, **M.A.Małecka**,

**Hierarchical Au / $CeO_2$ Systems: Influence of $Ln^{3+}$ Dopants on the Catalytic Activity in the Propane Oxidation Process.**

*Cryst Eng Com* **24** $_{36}$ (2022) 6 408–20. [DOI]

292. **P. Woźniak**, **M.A.Małecka**, L.Chinchilla, S.Trasobares,

**3D Hierarchically Structured $Ce_{1-x}Gd_xO_{2-x/2}$ Mixed Oxide Particles: The Role of Microstructure, Porosity and Multi-Level Architecture Stability in Soot and Propane Oxidation.**

*Mater. Res. Bull.* **151** (2022) # 111 816 (16). [DOI]

293. **P. Woźniak**, **M.A.Małecka**, **P. Kraszkiewicz**, **W. Miśta**, **O. Bezkrovnyi**, L.Chinchilla, S.Trasobares,

**Confinement of Nano-Gold in 3D Hierarchically Structured Gadolinium-Doped Ceria Mesocrystal: Synergistic Effect of Chemical Composition and Structural Hierarchy in CO and Propane Oxidation.**

*Catal. Sci. Technol.* **12** $_{23}$ (2022) 7 082–113. [DOI]

294. ZhuQin Wu, LeiPeng Li, XiaoHuan Lv, Hao Suo, Chongyang Cai, PinShu Lv, MingFeng Ma, XingQiang Shi, Yanmin Yang, **Ł.Marciniak**, JianRong Qiu,

**Persistent Luminescence Ratiometric Thermometry.**

*Chem. Eng. J.* **438** (2022) # 135 573 (?). [DOI]

295. **M. Wujczyk**, **S. Targońska**, P.Boutinaud, **J.M. Reeks**, **A.Watras**, **R.J. Wiglusz**,

**Emission Enhancement and Energy Transfers in $YV_{0.5}P_{0.5}O_4$ Nanoparticles Codoped with $Eu^{3+}$ and $Bi^{3+}$ Ions.**

*Inorg. Chem.* **61** $_{31}$ (2022) 12 237–48. [DOI]

296. P.Wytrych, J.Utko, J.Kłak, **M. Ptak**, **M. Stefański**, T.Lis, J.Ejfler, Ł.John,

**Synthesis, Crystal Structures, and Spectroscopic Properties of Novel Gadolinium and Erbium Triphenylsiloxide Coordination Entities.**

*Molecules* **27**$_1$ (2022) # 147 (16). [DOI]

297. Yao Xie, YaPai Song, GuoTao Sun, PengFei Hu, **A.Bednarkiewicz**, LinIng Sun,

**Lanthanide-Doped Heterostructured Nanocomposites toward Advanced Optical Anti-Counterfeiting and Information Storage.**

*Light Sci.Appl.* **11** $_1$ (2022) #e150 (10). [DOI]

298. ChongLei Xu, **A.Strzęp**, ZhongHan Zhang, HuaMin Kou, FengKai Ma, LiangBi Su,

**Growth and Spectroscopic Properties of $Ca_xSr_{1-x}F_2$ : Sm : Gd Single Crystals.**

*J. Lumin.* **249** (2022) # 119 008 (9). [DOI]

299. H.Yetiş, D.Avcı, F.Karaboğa, C.Aksoy, **D. Gajda**, E.Martínez, F.M.Tanyıldızı, **A.Zaleski**, **M. Babij**, **L.M. Tran**, L.A.Angurel, G.F. de la Fuente, İ.Belenli,

**Transport and Structural Properties of $MgB_2$ / Fe Wires Produced by Redesigning Internal Mg Diffusion Process.**

*Supercond. Sci. Techn.* **35** (2022) # 04 5012 (8). [DOI]

300. T.Zajarniuk, A.Szewczyk, **P. Wiśniewski**, M.U.Gutowska, R.Puźniak, H.Szymczak, I.Gudim, V.A.Bedarev, M.I.Pashchenko, P.Tomczak, W.Szuszkiewicz,

**Quantum *versus* Classical Nature of the Low-Temperature Magnetic Phase Transition in $TbAl_3(BO_3)_4$.**

*Phys. Rev.* B **105** (2022) # 09 4418 (7). [DOI]

301. B.Zawisza, R.Sitko, **A.Gągor**,

**Determination of Ultra-Trace Gold in Cosmetics Using Aluminum–Magnesium Layered Double Hydroxide / Graphene Oxide Nanocomposite.**

*Talanta* **245** (2022) # 123 460 (9). [DOI]

302. GuoJun Zheng, XiaoFeng Liu, JianHong Wu, Dao Zhang, DuoDuo Zhang, ZhouSu Xu, YanXia Cui, JianRong Qiu, **W. Stręk**,

**Boosting Continuous-Wave Laser-Driven Nonlinear Photothermal White Light Generation by Nanoscale Porosity.**

*Adv. Mater.* **34**$_{11}$ (2022) # 21 06368 (9). [DOI]

303. T.Zhezhera, **P. Głuchowski**, M.Nowicki, M.Chrunik, A.Majchrowski, K.M.Kosyl, D.Kasprowicz,

**Efficient Near-Infrared Quantum Cutting by Cooperative Energy Transfer in $Bi_3TeBO_9 : Nd^{3+}$ Phosphors.**

*J. Mater. Sci.* **57**$_{1}$ (2022) 185–203. [DOI]

304. **J.A.Zienkiewicz**, K.Kałduńska, K.Fedoruk, A.J.B. Dos Santos, **M. Stefański**, W.Paraguassu, T.M.Muzioł, **M. Ptak**,

**Luminescence and Dielectric Switchable Properties of a 1D (1,1,1-Trimethylhydrazinium)$PbI_3$ Hybrid Perovskitoid.**

*Inorg. Chem.* **61**$_{51}$ (2022) 20 886–95. [DOI]

305. **J.A.Zienkiewicz**, **M. Ptak**, **D. Drozdowski**, K.Fedoruk, **M. Stefański**, **A.Pikul**,

**Hybrid Organic–Inorganic Crystals of [Methylhydrazinium]$M^{II}Cl_3$ ($M^{II}$ = Co, Ni, Mn).**

*J. Phys. Chem.* C **126**$_{37}$ (2022) 15 809–18. [DOI]

306. E.Żurawska-Płaksej, **R. Wiglusz**, A.Piwowar, K.Wiglusz,

***In vitro* Investigation of Binding Interactions between Albumin–Gliclazide Model and Typical Hypotensive Drugs.**

*Int. J. Mol. Sci.* **23**$_{1}$ (2022) # 286 (12). [DOI]

307. M.Zybert, A.Tarka, W.Patkowski, H.Ronduda, B.Mierzwa, **L.Kępiński**, W.Raróg-Pilecka,

**Structure Sensitivity of Ammonia Synthesis on Cobalt: Effect of the Cobalt Particle Size on the Activity of Promoted Cobalt Catalysts Supported on Carbon.**

*Catalysts* **12**$_{10}$ (2022) # 1285 (13). [DOI]

## PUBLIKACJE W MATERIAŁACH KONFERENCYJNYCH
## Publications in Conference Materials

308. **J. Drabik**, **A.Bednarkiewicz**, **K. Prorok**, **Ł.Marciniak**,

**Nanocrystalline $NaYF_4 : Pr^{3+}$ Luminescent Thermometers Using Ground and Excited State Absorption.**

In: *Light–Matter Interactions towards the Nanoscale*, *[NATO Science for Peace and Security Series B: Physics and Biophysics]*, ed. by M.Cesaria, A. Calà Lesina, & J.Collins , (Dordrecht: Springer 2022) Pt III–Posters, pp. 315–16. [DOI] [ISBN 978-94-024-2137-8]

*NATO Adv.Stud.Inst.on Light–Matter Interactions towards the Nanoscale,* ERICE (Sicily), IT, 2019.07 20 –.08 04

309. **K. Knieć**, **Ł.Marciniak**,

**Spectroscopic Properties of Vanadium Ions for Applications in Luminescent Nanothermometry.**

In: *Light–Matter Interactions towards the Nanoscale*, *[NATO Science for Peace and Security Series B: Physics and Biophysics]*, ed. by M.Cesaria, A. Calà Lesina, & J.Collins , (Dordrecht: Springer 2022) Pt III–Posters, pp. 329–30. [DOI] [ISBN 978-94-024-2137-8]

*NATO Adv.Stud.Inst.on Light–Matter Interactions towards the Nanoscale,* ERICE (Sicily), IT, 2019.07 20 –.08 04

310. **M. Łysień**, Ł.Witczak, J.Gadzalińska, I.Grądzka-Kurzaj, L.Schneider, A.Wiatrowska, K.Fiączyk, P.Kowalczewski, F.Granek,

**Deposition of Conductive and insulating Materials at Micrometer Scale for Display-Component Prototyping.**

In: *SID International Symposium*, *[Digest of Technical Papers, Vol. 51]*, ed. by J. Donelan (New York, NY: Wiley 2022) Pt 1, pp. 723–26. [DOI]

*59th Int.Symp.Semin.Exhib., Display Week 2022,* SAN JOSE CA, US, 2022.05 08–13

311. **K. Maciejewska**, B.Poźniak, M.Tikhomirov, **Ł.Marciniak**,

**Synthesis and Cytotoxicity of $GdPO_4 : Yb^{3+}, Nd^{3+}$ for High Sensitivity Luminescent Nanothermometers.**

In: *Light–Matter Interactions towards the Nanoscale*, *[NATO Science for Peace and Security Series B: Physics and Biophysics]*, ed. by M.Cesaria, A. Calà Lesina, & J.Collins , (Dordrecht: Springer 2022) Pt III–Posters, pp. 343–44. [DOI] [ISBN 978-94-024-2137-8]

*NATO Adv.Stud.Inst.on Light–Matter Interactions towards the Nanoscale,* ERICE (Sicily), IT, 2019.07 20 –.08 04

312. **S. Targońska**, **R.J. Wiglusz**,

**Studies of Luminescence Properties of $Eu^{3+}$ Ions Doped the Silicate-Substituted Apatite and Co-Doped with Strontium Ions.**

In: *Light–Matter Interactions towards the Nanoscale*, *[NATO Science for Peace and Security Series B: Physics and Biophysics]*, ed. by M.Cesaria, A. Calà Lesina, & J.Collins , (Dordrecht: Springer 2022) Pt III–Posters, pp. 353–55. [DOI] [ISBN 978-94-024-2137-8]

*NATO Adv.Stud.Inst.on Light–Matter Interactions towards the Nanoscale,* ERICE (Sicily), IT, 2019.07 20 –.08 04

313. J.Valerio, M.Quintana, H.Rivera, **A.Hojeńska**, **A.Łukowiak**, J.M.Rodriguez

**Leaching Process Applied to Fluorescent Lamps of Different Brands to Obtain Rare-Earth Elements: A case study in Peru.**

In: *Proceedings of the LACCEI International Multi-Conference for Engineering, Education and Technology*, *[Vol. 2022]*, ed. by M.M. Larrondo Petrie, J.Texier, A.Peña, & J.A.S.Viloria (?: Latin American and Caribbean Consortium of Engineering Institutions 2022) [ISBN 978-628952070-5]

*20th LACCEI Caribbean Conference for Engineering & Technology (LACCEI '22)* BOCA RATON FL, US, 2022.07 18–22

314. A.Wiatrowska, K.Fiączyk, P.Kowalczewski, **M. Łysień**, Ł.Witczak, J.Gadzalińska, I.Grądzka-Kurzaj, L.Schneider, F.Granek,

**Deposition of Conductive and Insulating Features at Micrometer Scale for Flexible Electronics and Printed Displays.**

In: *SID International Symposium*, *[Digest of Technical Papers, Vol. 53]*, (New York, NY: Wiley 2022) Pt 1, pp. 551-only. [DOI]

*Int.Conf.on Display Technology (ICDT '22)* FUZHOU CN, 2022.07 09–12

315. A.Wiatrowska, K.Fiączyk, P.Kowalczewski, **M. Łysień**, Ł.Witczak, J.Gadzalińska, L.Schneider, Ł.Kosior, F.Granek,

**Depositon of Micrometer-Size Features on Complex Substrates for Heterogeneous Integration.**

In: *IEEE International Conference on Flexible and Printable Sensors and Systems*, (Piscataway, NJ: IEEE 2021) [DOI] ISBN: 978-166544273-2

*2022 IEEE Int.Conf.on Flexible and Printable Sensors and Systems (FLEPS 2022)* VIENNA, AT, 2022.07 10–13