Instytut Niskich Temperatur
i Badań Strukturalnych PAN

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LISTA PUBLIKACJI 2018
LIST of PUBLICATIONS

KSIĄŻKI, MONOGRAFIE i ARTYKUŁY PRZEGLĄDOWE
Books, Monographs & Reviews

1. **Z. Henkie**,

   Crystal Growth of the Filled Skutterudite Arsenides by the Flux Method under Enhanced Vapor Pressure.

   In: *Crystal Growth of Intermetallics.* ed. by P.Gille & Yu.Grin (Berlin, Boston: De Gruyter 2018) Ch. 8, pp. 173–88. [DOI] [ISBN 978-3-11-049678-9]

2. **K. Lemański**, **N. Miniajluk**, **P.J. Dereń**,

   Nanophosphors – Methods to Control Their Spectroscopic Properties.

   In: *Handbook of Nanomaterials for Industrial Applications. Micro and Nano Technologies.*, ed. by Ch.M. Hussain (Cambridge, MA: Elsevier 2018) Pt V, Ch. 18, pp. 305–11. [DOI] [ISBN 978-0-12-813351-4]

3. **A.Łukowiak**, A.Chiasera, A.Chiappini, G.C.Righini, M.Ferrari,

   Active Sol–Gel Materials, Fluorescence Spectra and Lifetimes.

   In: *Handbook of Sol–Gel Science and Technology. Processing, Characterization and Applications. 2nd ed.*, ed. by L.Klein, M.Aparicio, & A.Jitianu (Berlin & Heidelberg: Springer 2018) pp. 1–43. [DOI] [ISBN 978-3-319-19454-7]

4. F.M.Muntyanu, A.Gilewski, **A.J. Zaleski**, V.Chistol, V.Munteanu, **K. Rogacki**, A.Sidorenko,

   Quantum Transport, Superconductivity, and Weak Ferromagnetism at Bicrystal Interfaces of Bi and 3D Topological Insulator BiSb**.**

   In: *Functional Nanostructures and Metamaterials for Superconducting Spintronics. NanoScience and Technology book series (NANO)*, ed. by A. Sidorenko (Cham: Springer 2018) Ch. 12, pp. 247–63. [DOI] [ISBN 978-3-319-90480-1]

ARTYKUŁY W CZASOPISMACH NAUKOWYCH
Articles in Scientific Journals

5. A.Abbasi, M.Najafi, **J. Janczak**,

   Water-Insoluble Hybrid Materials Based on Polyoxomolybdate Nanoclusters as Efficient Catalysts.

   J. Env. Chem. Eng. **9** (2018) 6328–34. [DOI]

6. H.Ahankar, A.Ramazani, N.Fattahi, K.Ślepokura, T.Lis, P.A.Asiabi, **V. Kinzhybalo**, Y.Hanifehpour, Sang Woo Joo,

   Tetramethylguanidine-Functionalized Silica-Coated Iron Oxide Magnetic Nanoparticles Catalyzed One-Pot Three-Component Synthesis of Furanone Derivatives.

   J. Chem. Sci. **130** $_{12}$ (2018) # 166 (13). [DOI]

7. A.Albalawi, H.Gebavi, A.Chiasera, R.Balda, **A.Łukowiak**, W.Blanc, W.Albalawi, M.Ferrari, S.Taccheo,

   Impact of the Reverse Cross-Relaxation Process on Pumping Efficiency in Tm-Doped Glass Lasers Materials.

   Proc. SPIE **10 683** (2018) # 10683 0D (6). [DOI]

   Conf.on Fiber Lasers and Glass Photonics: Materials through Applications, STRASBOURG, FR, 2018.04 22–26

8. H.Algarni, M.S.Al-Assiri, M.Reben, I.V.Kityk, B.Burtan-Gwizdała, H.H.Hegazy, Ahmad Umar, E.Yousef, **R. Lisiecki**,

   Erbium-Doped Fluorotellurite Titanate Glasses for Near Infrared Broadband Amplifiers.

   Opt. Mater. **83** (2018) 257–62. [DOI]

9. M.Amini, Sh.Najafi, **J. Janczak**,

   Copper(I) **Complex of 2,9-Dimethyl-1,10-Phenanthroline: Synthesis, Structure, and Catalytic Properties.**

   Inorg. Chim. Acta **482** (2018) 333–39. [DOI]

10. **V.Apinyan**, **T.K. Kopeć**,

    High Energy Shift in the Optical Conductivity Spectrum of the Bilayer Graphene.

    Eur. Phys. J. B **91**$_{12}$ (2018) # 310 (13). [DOI]

11. **V.Apinyan**, **T.K. Kopeć**,

    Spectral Properties of Excitons in the Bilayer Graphene.

    Physica E **95** (2018) 108–20. [DOI]

12. **V.Apinyan**, **T.K. Kopeć**,

    Ultraviolet Absorption Spectrum of the Half-Filled Bilayer Graphene.

    Superlatt. Microstr. **119** (2018) 166–80. [DOI]

13. F.Armetta, **D. Hreniak**, **Ł.Marciniak**, E.Caponetti, M.L.Saladino,

    Synthesis of Yttrium Aluminum Garnet Nanoparticles in Confined Environment III: Cerium Doping Effect.

    Opt. Mater. **85** (2018) 275–80. [DOI]

14. G.Azadi, R.Bagheri, R.Bikas, Y.Mousazade, Junfeng Cui, Zhenlun Song, **V. Kinzhybalo**, Jian-Ren Shen, S.I.Allakhverdiev, M.M.Najafpour,

    A Transparent Electrode with Water-Oxidizing Activity.

    Int. J. Hydrogen Energy **43**$_{51}$ (2018) 22 896–904. [DOI]

15. **J. Baran**, N.A.Davydova, **M. Drozd**, E.A.Ponezha, V.Ya.Reznichenko,

    Spectroscopic and Thermal Analyses of Ortho-Benzylphenol Crystalline Polymorphism.

    Ukr. J. Phys. **63**$_{2}$ (2018) 95–101. [DOI]

16. A.Baranik, **A.Gągor**, I.Queralt, E.Marguí, R.Sitko, B.Zawisza,

    Ceria Nanoparticles Deposited on Graphene Nanosheets for Adsorption of Copper(II) **and Lead**(II) **Ions and of Anionic Species of Arsenic and Selenium.**

    Microchim. Acta **185**$_{5}$ (2018) # 264 (9). [DOI]

17. A.Baranik, **A.Gągor**, I.Queralt, E.Marguí, R.Sitko, B.Zawisza,

    Determination and Speciation of Ultratrace Arsenic and Chromium Species Using Aluminium Oxide Supported on Graphene Oxide.

    Talanta **185** (2018) 264–74. [DOI]

18. A.Baranik, R.Sitko, **A.Gągor**, I.Queralt, E.Marguí, B.Zawisza,

    Graphene Oxide Decorated with Cerium(IV) **Oxide in Determination of Ultratrace Metal Ions and Speciation of Selenium.**

    Anal. Chem. **90**$_{6}$ (2018) 4 150–59. [DOI]

19. A.Baranik, R.Sitko, **A.Gągor**, B.Zawisza,

    Alumina / Nano-Graphite Composite as a New Nanosorbent for the Selective Adsorption, Preconcentration, and Determination of Chromium in Water Samples by EDXRF**.**

    Anal. Bioanal. Chem. **410**$_{29}$ (2018) 7 793–802. [DOI]

20. **T.J. Bednarchuk**, **V. Kinzhybalo**, E.Markiewicz, B.Hilczer, **A.Pietraszko**,

    Structure, Dielectric and Electric Properties of Diisobutylammonium Hydrogen Sulfate Crystal.

    J. Solid State Chem. **258** (2018) 753–61. [DOI]

21. I.B.Berkutov, V.V.Andrievskii, Yu.A.Kolesnichenko, Yu.F.Komnik, O.A.Mironov,

The Overheating Effects in Germanium Quantum Well with Two Subbands Occupied.

Физ. Низк. Темп. **44** $_8$ (2018) 1018–24.
Also in: *Low Temp. Phys.* **44** $_8$ (2018) 797–802. [DOI]

22. **O.S. Bezkrovnyi**, **P. Kraszkiewicz**, **M. Ptak**, **L.Kępiński**,

Thermally Induced Reconstruction of Ceria Nanocubes into Zigzag {111}-Nanofacetted Structures and Its Influence on Catalytic Activity in CO Oxidation.

Catal. Commun. **117** (2018) 94–98. [DOI]

23. **O. Bezkrovnyi**, **M.A.Małecka**, **R. Lisiecki**, V.Ostroushko, A.G.Thomas, S.Gorantla, **L.Kępiński**,

The Effect of Eu Doping on the Growth, Structure and Red–Ox Activity of Ceria Nanocubes.

Cryst Eng Comm **20** $_{12}$ (2018) 1698–704. [DOI]

24. D.Bochenek, R.Skulski, P.Niemiec, D.Brzezińska, **K. Rogacki**,

The Magnetic and Electric Measurements of the Multiferroic $PbFe_{1/2}Nb_{1/2}O_3$ Ceramics Obtained Using Hot Uniaxial Pressure Method.

Arch. Metall. Mater. **63** $_3$ (2018) 1243–47. [DOI]

25. T.Bodziony, S.M.Kaczmarek, **V.H. Tran**, P.Figiel, A.Biedunkiewicz, G.Leniec,

Magnetic Properties of AISI 316L Stainless Steel Doped with Nanocrystalline Ti–B–C Powders.

Mater. Res. Express **5** (2018) # 12 6105 (11). [DOI]

26. **B. Bondzior**, **P.J. Dereń**,

The Role of Hypersensitive Transition in Eu^{3+} Optical Probe for Site Symmetry Determination in BaScBO–SrScBO Solid-Solution Phosphor.

J. Lumin. **201** (2018) 298–302. [DOI]

27. **B. Bondzior**, **N. Miniajluk**, **P.J. Dereń**,

Pair Luminescence in Cr^{3+}-Doped $Ba_2Mg(BO_3)_2$.

Opt. Mater. **79** (2018) 269–72. [DOI]
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28. B.Borak, J.Krzak, **M. Ptak**, **W. Stręk**, **A.Łukowiak**,

Spherical Nanoparticles of Europium-Doped Silica–Calcia Glass and Glass-Ceramic: Spectroscopic Characterization.

J. Mol. Struct. **1166** (2018) 48–53. [DOI]

29. D.Brzezińska, R.Skulski, D.Bochenek, P.Niemiec, A.Chrobak, **Ł.Fajfrowski**, **S. Matyjasik**,

The Magnetic and Electric Properties of PZT–PFW–PFN Ceramics.

J. Alloy. Compd. **737** (2018) 299–307. [DOI]

30. E.M.Carnicom, J.Strychalska-Nowak, **P. Wiśniewski**, **D. Kaczorowski**, W.Xie, T.Klimczuk, R.J.Cava,

Superconductivity in the Superhard Boride $WB_{4.2}$.

Supercond. Sci. Techn. **31** (2018) # 11 5005 (7). [DOI]

31. J.M. de Carvalho, C.C.S.Pedroso, I.P.Machado, J.Hölsä, L.C.V.Rodrigues, **P. Głuchowski**, M.Lastusaari, H.F.Brito,

Persistent Luminescence Warm-Light LEDs Based on Ti-Doped RE_2O_2S Materials Prepared by Rapid and Energy-Saving Microwave-Assisted Synthesis.

J. Mater. Chem. C **6** $_{33}$ (2018) 8 897–905. [DOI]

32. N.M.Cepeda-Sánchez, J.A.Díaz-Guillén, **M. Mączka**, U.Amador, A.F.Fuentes,

Cations Size Mismatch *versus* Bonding Characteristics: Synthesis, Structure and Oxygen Ion Conducting Properties of Pyrochlore-Type Lanthanide Hafnates.

J. Mater. Sci. **53** $_{19}$ (2018) 13 513–29. [DOI]

33. M.A.Chaika, N.A.Dulina, A.G.Doroshenko, S.V.Parkhomenko, O.V.Gayduk, **R. Tomala**, **W. Stręk**, **D. Hreniak**, G.Mancardi, O.M.Vovk,

Influence of Calcium Concentration on Formation of Tetravalent Chromium-Doped $Y_3Al_5O_{12}$ Ceramics.

Ceram. Int. **44** $_{12}$ (2018) 13 513–19. [DOI]

34. **G. Chajewski**, **M. Samsel-Czekała**, **A.Hackemer**, **P. Wiśniewski**, **A.P. Pikul**, **D. Kaczorowski**,

Superconductivity in YTE_2Ge_2 Compounds (TE = d-Electron Transition Metal).

Physica B **536** (2018) 767–72. [DOI]

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35. **G. Chajewski**, **P. Wiśniewski**, **A.Hackemer**, **A.P. Pikul**, **D. Kaczorowski**,

Superconductivity in Single Crystalline YPd_2Ge_2 .

Physica B **536** (2018) 761–66. [DOI]

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36. A.Chiasera, L.Criante, S.Varas, G.Della Valle, R.Ramponi, M.Ferrari, L.Żur, **A.Łukowiak**, I.Kriegel, M.Bellingeri, D.Cassi, F.Scotognella,

One-Dimensional Disordered Photonic Structures with Two or More Materials.

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37. A.Chiasera, C.Meroni, S.Varas, S.Valligatla, F.Scotognella, Y.G.Boucher, **A.Łukowiak**, L.Żur, G.C.Righini, M.Ferrari,

Photonic Band Edge Assisted Spontaneous Emission Enhancement from All Er^{3+} 1-D Photonic Band Gap Structure.

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38. A.Chiasera, F.Scotognella, Y.Boucher, **A.Łukowiak**, D.Ristić, G.Speranza, C.Meroni, S.Varas, L.Żur, M.Ivanda, S.Taccheo, R.Ramponi, G.C.Righini, M.Ferrari,

Fabrication by rf-Sputtering and Assessment of Dielectric Er^{3+}- Doped Monolithic 1-D Microcavity for Coherent Emission at 1.5 μ.

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39. A.V.Chitnis, H.Bhatt, **M. Mączka**, M.N.Deo, N.Garg,

Remarkable Resilience of the Formate Cage in a Multiferroic Metal Organic Framework Material: Dimethyl Ammonium Manganese Formate (DMAMnF).

Dalton Trans. **47**$_{37}$ (2018) 12 993–13 005. [DOI]

40. V.Chzhan, I.Tereshina, G.Burkhanov, G.Politova, **H. Drulis**,

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41. **B. Cichy**, **A.Olejniczak**, **W. Stręk**,

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J. Lumin. **193** (2018) 79–83. [DOI]

42. **K. Ciesielski**, **G. Chajewski**, **M. Samsel-Czekała**, **A.Hackemer**, **P. Obstarczyk**, **A.P. Pikul**, **D. Kaczorowski**,

Electronic Properties of $LaTE_2Ge_2$ (TE = Fe, Co, Ni, Cu, Ru).

Solid State Commun. **280** (2018) 13–17. [DOI]

43. **J. Ćwik**, **Yu.Koshkid'ko**, N.A.de Oliveira, A.Mikhailova, K.Nenkov,

Effect of Composition Changes on the Structural, Magnetic and Thermodynamic Properties in $Tb_{1-x}Dy_xNi_2$ Intermetallic Compounds.

J. Alloy. Compd. **769** (2018) 588–96. [DOI]

44. **J. Ćwik**, **Yu.Koshkid'ko**, K.Nenkov, E.A.Tereshina, **K. Rogacki**,

Structural, Magnetic and Magnetocaloric Properties of $HoNi_2$ and $ErNi_2$ Compounds Ordered at Low Temperatures.

J. Alloy. Compd. **735** (2018) 1088–95. [DOI]

45. M.Czaja, **R. Lisiecki**, A.Chrobak, R.Sitko, Z.Mazurak,

The Absorption- and Luminescence Spectra of Mn^{3+} in Beryl and Vesuvianite.

Phys. Chem. Miner. **45** $_5$ (2018) 475–88. [DOI]

46. F.Czechowski, **R. Klimkiewicz**,

Struktura produktów pirolizy kwasów huminowych węgla brunatnego i katalityczne właściwości utlenionych karbonizatów. [Structure of Pyrolysis Products from Brown Coal Humic Acids and Catalytic Properties of Oxidized Carbonizates.]

Górnictwo Odkrywkowe **59** $_1$ (2018) 27–38 [in Polish].

47. ZhengFa Dai, Qiang Liu, **D. Hreniak**, JiaWei Dai, Wei Wang, Jiang Li,

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48. **D. Das**, **D. Gnida**, **Ł.Bochenek**, **A.Rudenko**, **M. Daszkiewicz**, **D. Kaczorowski**,

Magnetic Field Driven Complex Phase Diagram of Antiferromagnetic Heavy-Fermion Superconductor Ce_3PtIn_{11} .

Sci. Rep. **8** (2018) # 16 703 (8). [DOI]

49. **M. Daszkiewicz**, M.Puszyńska-Tuszkanow, Z.Staszak, I.Chojnacka, H.Fałtynowicz, M.Cieślak-Golonka,

Single Crystal-to-Single Crystal Transformations Induced by Ammonia–Water Equilibrium Changes.

Cryst Eng Comm **20** $_{21}$ (2018) 2 907–11. [DOI]

50. **M. Daszkiewicz**, O.V.Smitiukh, O.V.Marchuk, L.D.Gulay,

The Crystal Structure of $Er_{2.34}La_{0.66}Ge_{1.28}S_7$ and the $La_xR_yGe_3S_{12}$ Phases (R − Tb, Dy, Ho, and Er).

J. Alloy. Compd. **738** (2018) 263–69. [DOI]

51. **P.J. Dereń**, **B. Bondzior**, G.Banach, B.Brzostowski,

How the Size of $LaAlO_3$ Nanocrystals Changes Its Spectroscopic Properties.

J. Lumin. **193** (2018) 73–78. [DOI]

52. **P.J. Dereń**, D.Sztolberg, B.Brzostowski, **W. Walerczyk**,

Spectroscopic Properties of $LaAlO_3 : Tm^{3+}$ Nanocrystals.

Opt. Mater. **83** (2018) 68–72. [DOI]

53. K.Dimitri, M.M.Hosen, G.Dhakal, HongChul Choi, F.Kabir, Ch.Sims, **D. Kaczorowski**, T.Durakiewicz, Jian-Xin Zhu, M.Neupane,

Dirac State in a Centrosymmetric Superconductor α-$PdBi_2$.

Phys. Rev. B **97** (2018) # 14 4514 (5). [DOI]

54. **J. Dobosz**, M.Cichy, **M. Zawadzki**, T.Borowiecki,

Glycerol Steam Reforming over Calcium Hydroxyapatite Supported Cobalt and Cobalt–Cerium Catalysts.

J. Energy Chem. **27**$_2$ (2018) 404–12. [DOI]

55. **J. Dobosz**, S.Hull, **M. Zawadzki**,

Calcium Hydroxyapatite Supported Cobalt Catalysts for Ethanol Steam Reforming: Effect of the Incorporation Method of Active Phase.

Stud. UBB Chem. **63** $_1$ (2018) 215–37. [DOI]

56. **J. Dobosz**, **M. Małecka**, **M. Zawadzki**,

Hydrogen Generation *via* Ethanol Steam Reforming over Co / HAp Catalysts.

J. Energy Inst. **91** (2018) 411–23. [DOI]

57. M.Dobrzyński, C.Pezowicz, M.Tomanik, P.Kuropka, K.Dudek, K.Fita, M.Styczyńska, **R.J. Wiglusz**,

Modulating Effect of Selected Pharmaceuticals on Bone in Female Rats Exposed to 2,3,7,8-Tetrachlorodibenzo-*p*-Dioxin (TCDD).

RSC Adv. **8** $_{48}$ (2018) 27 537–45. [DOI]

58. **K. Domieracki**, **D. Kaczorowski**,

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59. **K. Domieracki**, **P. Wiśniewski**, **K. Wochowski**, **T. Romanova**, **A.Hackemer**, **R. Gorzelniak**, **A.Pikul**, **D Kaczorowski**,

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60. **J. Drabik**, **B. Cichy**, **Ł.Marciniak**,

New Type of Nanocrystalline Luminescent Thermometers Based on Ti^{3+}/ Ti^{4+} and Ti^{4+}/ Ln^{3+} ($Ln^{3+} = Nd^{3+}, Eu^{3+}, Dy^{3+}$) Luminescence Intensity Ratio.

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61. W.Dridi, M.F.Zid, **M. Mączka**,

Characterization of a Sodium Molybdate Compound β-$Na_4Cu(MoO_4)_3$.

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62. **M. Drozd**,

Theoretical and Experimental Studies on Vibrational and Nonlinear Optic Properties of Guanidinium 3-Nitrobenzoate. Differences and Similarity between Guanidinium 3-Nitrobenzoate and Guanidinium 4-Nitrobenzoate Complexes.

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63. **M. Drozd**, **M. Daszkiewicz**,

A Synthesis, X-ray Crystallographic and Vibrational Studies of Guanidinium *o*-Nitrobenzoate Hydrate. New NLO Crystal in Guanidinium Nitrobenzoate Family.

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Transport Phenomena for Development [of] Inductive Elements Based on Silicon Wires.

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68. A.Druzhinin, I.Ostrovskii, Yu.Khoverko, **K. Rogacki**, I.Kogut, V.Golota,

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J. Mater. Sci. : Mater. Electron. **29**$_{10}$ (2018) 8 364–70. [DOI]

69. G.Durgadevi, V.Arjunan, S.Thirunarayanan, **M.K. Marchewka**, S.Mohan,

Structure, Electronic, Spectroscopic and Reactivity Investigations of Pharmacologically Active Compound 1-Acetyl-3-Indolecarboxaldehyde – An Experimental and Theoretical Approach.

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70. R.Eder, **P. Wróbel**,

Antiferromagnetic Phase of the Kondo Insulator.

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71. **K. Elżbieciak**, **Ł.Marciniak**,

The Impact of Cr^{3+} Doping on Temperature Sensitivity Modulation in Cr^{3+}-Doped and Cr^{3+}, Nd^{3+}-Co-doped $Y_3Al_5O_{12}$, $Y_3Al_2Ga_3O_{12}$, and $Y_3Ga_5O_{12}$ Nanothermometers.

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72. **K. Elżbieciak**, **A.Bednarkiewicz**, **Ł.Marciniak**,

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Sens. Actuat. B **269** (2018) 96–102. [DOI]

73. M.Emami, K.A.Ślepokura, **M. Trzebiatowska**, N.Noshiranzadeh, **V. Kinzhybalo**,

Oxyanion Clusters with Antielectrostatic Hydrogen Bonding (AEHB) in Tetraalkylammonium Hypodiphosphates.

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Synthesis and Luminescence of Eu^{3+} and Tb^{3+} Doped Nanocrystalline TiO_2 for Inks preparation in Nanoprinting Process. (P)

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Luminescence Phenomena Induced by Femtosecond Light Pulses in $LiTaO_3 : Pr^{3+}$ Single Crystal. (P)

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DFT Study of Electronic Structure Properties of $SrAFe_4As_4$ (A = Rb and Cs) Superconductors. (C)

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Crystal Structure and Topology of Hydrogen Bonds of 2Me–5NA Salts. (P)

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Struktura i właściwości fizykochemiczne hybrydy organiczno–nieorganicznej na bazie kationu piperazynowego. [???] (P)

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Ce^{3+} as a Tool to Modulate the Luminescent Properties of $NaYF_4 : Vb^{3+}, Ho^{3+}$. (P)

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Synthesis of Nanostructured Yttrium Aluminum Garnet Powders Co-activated with Cerium and Europium Ions by the Combustion Method. (P)

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Synthesis and Properties of Silica Microspheres Encapsulating Fluorescent Nanoparticles. (P)

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Synthesis Functional Nanostructured TiO_2 Films Doped [with] Ce and Ag by Sol–Gel Method. (P)

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Copper(I) **and Silver**(I) **π-Complexes with Allyl Derivatives of Azoles: Synthetic Routes and Some Features of Their Crystal Engineering.** (C)

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Stokes and Anti-Stokes Luminescence in Nanostructured Fluorapatite Co-doped with Yb^{3+} and Tb^{3+} Ions – Promising Material for Theranostic Application. (P)

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A Simple Way to Determine the Energy Band Gap and Localization of Lanthanides. (P)

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Comparison of Optical Properties of Anti-Stokes White Emission Generated from Sr_2CeO_4 Prepared with Solid State and Citric Gel Techniqu. (P)

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Utilization of Rare Earth from Mongolian Ore. (C)

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Investigation of Spectroscopic Properties of Er Doped Antimonate–Phosphate Glasses. (P)

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Magnetocaloric Effects in Gd Based Alloys and Composites. (I)

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A New Approach in Synthesis and Characterization of Silicon-Substitution Hydroxyapatite Nanopowders Doped with Europium Ions. (P)

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Determining of Temperature of Laser Induced White Emission Generation on $Y_2Si_2O_7 : Nd^{3+}$ Nanocrystals. (P)

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DFT Studies of Electronic Structure and Non-linear Optical Properties in B- and Si-Substituted α-GeO_2 . (C)

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The Influence of Dopant Concentrations on the Sensitivity of Lifetime Luminescent Thermometers Based on YAG : $Nd^{3+}, Mn^{3+}, Mn^{4+}$ Nanocrystals. (P)

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The Graphene and Palladium Plasmons in Catalysis of the Carbonylative Suzuki–Miyaura Process. (P)

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Influence of Li^+, Na^+, Rb^+ and Cs^+ Codopants on $K_2Ca_2Si_2O_7 : Eu^{3+}$ Properties. (P)

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Luminescence Temperature Quenching Mechanism of $Ca_9ZMg(PO_4)_7 : 1\%\ Eu^{2+}$ ($Z = Li, Na, K$). (C)

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Analiza wiązań wodorowych pod kątem własności przewodzących malonianu diimidazolowego. [???] (P)

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Orientacja nanocząstek złota na nośnikach $Ce_{1-x}Yb_xO_{2-x/2}$ ($x = 0; 0.1$) o zadanej morfologii. [???] (P)

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Influence of the Excitation Energy (X-ray, UV, and Blue Light) on the Persistent Luminescence YAGG:Cr–Ce–Pr Nanophosphors. (P)

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Interaction of Some Rare-Earth Elements with Sulfur Disulphide under the Influence of High Pressures and Temperatures. (P)

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