

LISTA PUBLIKACJI 2020 LIST of PUBLICATIONS

KSIĄŻKI, MONOGRAFIE i ARTYKUŁY PRZEGLĄDOWE BOOKS, MONOGRAPHS & REVIEWS

1. A.Chiappini, L.Zur, F.Enrichi, B.Boulard, **A.ŁUKOWIAK**, G.C.Righini, M.Ferrari,
Glass Ceramics for Frequency Conversion.
In: *Solar Cells and Light Management. Materials, Strategies and Sustainability.*, ed. by F.Enrichi & G.Righini, (Oxford: Elsevier 2020) Ch. 11, pp. 391–414. [\[DOI\]](#) [ISBN 978-0-08-102762-2]

ARTYKUŁY W CZASOPISMACH NAUKOWYCH ARTICLES IN SCIENTIFIC JOURNALS

2. A.Adach, **M. DASZKIEWICZ**, M.Tyszka-Czochara,
Comparative X-ray, Vibrational, Theoretical and Biological Studies of New *in situ* Formed [CoL^S X]₂[CdX₄] Halogenocadmate(II) Complexes Containing N-Scorpionate Ligand.
Polyhedron **175** (2020) # 114 229 (13). [\[DOI\]](#)
3. **V.APINYAN, T.K. KOPEĆ**,
Excitonic Effects in Twisted Bilayer Graphene.
Physica E **115** (2020) # 113 682 (11). [\[DOI\]](#)
4. N.F.Bakhsh, Md J.S.Fard, P.Hayati, A.Masoudiasl, **J. JANCZAK**,
A Facile Route for the Synthesis of New 1D Copper(II) Coordination Polymer as Precursors for Preparation of Nano Structures: Crystallography and HIRSHFELD Surface Analysis.
J. Mol. Struct. **1200** (2020) # 127 020 (9). [\[DOI\]](#)
5. B.Belan, **D. KOWALSKA**, M.Manyako, M.Dzevenko, Ya.Kalychak,
Single-Crystal Investigation of the Compound SmNi_{5.2}Mn_{6.8}.
Z. Naturforschg. B **75**₃ (2020) 303–7. [\[DOI\]](#)
6. **O.S. BEZKROVNYI**, M.Vorokhta, **M. MAŁECKA, W. MIŚTA, L. KĘPIŃSKI**,
NAP–XPS Study of Eu³⁺ → Eu²⁺ and Ce⁴⁺ → Ce³⁺ Reduction in Au / Ce_{0.80}Eu_{0.20}O₂ Catalyst.
Catal. Commun. **135** (2020) # 105 875 (4). [\[DOI\]](#)
7. J.Bławat, P.W.Swatek, **D. DAS, D. KACZOROWSKI**, RongYing Jin, WeiWei Xie
Pd–P Antibonding Interactions in APd₂P₂ (A = Ca and Sr) Superconductors.
Phys. Rev. Mater. **4** (2020) # 01 4801 (11). [\[DOI\]](#)
8. V.BOIKO, **R. TOMALA**, O.Posudievsky, V.Moiseienko, G.Dovbeshko, **W. STREK**,
Laser Induced Anti-STOKES Emission from Graphene Nanoparticles Infiltrated into Opal Based Photonic Structure.
Opt. Mater. **101** (2020) # 109 744 (5). [\[DOI\]](#)
9. **M. CHAIKA**, O.Vovk, G.Mancardi, **R. TOMALA, W. STREK**,
Dynamics of Yb²⁺ to Yb³⁺ Ion Valence Transformations in Yb : YAG Ceramics Used for High-Power Lasers.
Opt. Mater. **101** (2020) # 109 774 (8). [\[DOI\]](#)

10. **K. CIESIELSKI, D. GNIDA, H. Borrmann, R. Ramlau, Yu. Prots, D. SZYMAŃSKI, Yu. Grin, D. KACZOROWSKI,**
Structural, Thermodynamic and Magnetotransport Properties of Half-HEUSLER Compound HoPtSb.
J. Alloy. Compd. **829** (2020) # 154 467 (8). [\[DOI\]](#)
11. **K. CIESIELSKI, K. SYNORADZKI, I. WOLAŃSKA, P. STACHOWIAK, L. KĘPIŃSKI, A. JEŻOWSKI, T. Toliński, D. KACZOROWSKI,**
High-Temperature Power Factor of Half-HEUSLER Phases $RENiSb$ ($RE = Sc, Dy, Ho, Er, Tm, Lu$).
J. Alloy. Compd. **816** (2020) # 152 596 (8). [\[DOI\]](#)
12. **А.В. Долбин, Н.А. Винников, В.Б. Есельсон, В.Г. Гаврилко, Р.М. Баснукаева, М.В. Хлыстюк, А.И. Прохвятилов, В.В. Мелешко, О.Л. Резинкин, М.М. Резинкина, С.В. Чередниченко, Л. КĘPIŃSKI,**
Влияние обработки оксида графена импульсным высокочастотным разрядом на низкотемпературную сорбцию водорода. [Effect of Pulsed High-Frequency Discharge Treatment of Graphene Oxide on Low-Temperature Hydrogen Sorption.]
Физ. Низк. Темп. **46**₃ (2020) 355–63 [in Russian].
 Engl. in: *Low Temp. Phys.* **46**₃ (2020) ???–??.
13. **M. FANDZLOCH, L. Dobrzańska, T. Jędrzejewski, J. Jezierska, J. Wiśniewska, I. Łakomska,**
Synthesis, Structure and Biological Evaluation of Ruthenium(III) Complexes of Triazolopyrimidines with Anticancer Properties.
J. Biol. Inorg. Chem. **25**₁ (2020) 109–24. [\[DOI\]](#)
14. **M. FANDZLOCH, A. Jaromin, M. Zaremba-Czogalla, A. Wojtczak, A. Lewińska, J. Sitkowski, J. Wiśniewska, I. Łakomska, J. Gubernator,**
Nanoencapsulation of a Ruthenium(II) Complex with Triazolopyrimidine in Liposomes as a Tool for Improving Its Anticancer Activity against Melanoma Cell Lines.
Dalton Trans. **49**₄ (2020) 1207–19. [\[DOI\]](#)
15. **M. Fedyna, M. Śliwa, K. Jaroszevska, L. KĘPIŃSKI, J. Trawczyński,**
Procedure for the Synthesis of AISBA–15 with High Aluminium Content: Characterization and Catalytic Activity.
Microp. Mesop. Mater. **292** (2020) # 109 701 (11). [\[DOI\]](#)
16. **A. FILATOVA-ZALEWSKA, Z. LITWICKI, T. Suski, A. JEŻOWSKI,**
Thermal Conductivity of Thin Films of Gallium Nitride, Doped with Aluminium, Measured with 3ω Method.
Solid State Sci. **101** (2020) # 106 105 (4). [\[DOI\]](#)
17. **D. GAJDA, A.J. ZALESKI, A.J. Morawski, W. Haßler, K. Nenkov, M.A. Rindfleisch, Md S.A. Hossain,**
Pinning Mechanism and Engineering Critical Current Density Considerations in the Design of MgB_2 Superconducting Coils.
Physica C **570** (2020) # 1353 606 (17). [\[DOI\]](#)
18. **K. Giza, A. HACKEMER[†], H. DRULIS,**
Influence of the Synthesis Route on Hydrogen Sorption Properties of $La_2MgNi_7Co_2$ Alloy.
Int. J. Hydrog. Energy **45**₃ (2020) 1492–98. [\[DOI\]](#)
19. **M.D. Glinchuk, A.N. Morozovska, A. ŁUKOWIAK, W. STRĘK, M.V. Silibin, D.V. Karpinsky, Yunseok Kim, S.V. Kalinin,**
Possible Electrochemical Origin of Ferroelectricity in HfO_2 Thin Films.
J. Alloy. Compd. **830** (2020) # 153 628 (13). [\[DOI\]](#)
20. **N.L. Gulay, Yu.B. Tyvanchuk, M. DASZKIEWICZ, D. KACZOROWSKI, Ya.M. Kalychak,**
Crystal Structure and Magnetic Properties of the Novel Compound Sc_5CuIn_3 .
J. Alloy. Compd. **815** (2020) # 152 660 (5). [\[DOI\]](#)

21. M.M.Hosen, G.Dhakal, BaoKai Wang, N.Poudel, K.Dimitri, F.Kabir, Ch.Sims, S.Regmi, K.Gofryk, **D. KACZOROWSKI**, A.Bansil, M.Neupane,
Experimental Observation of Drumhead Surface States in SrAs₃ .
Sci. Rep. **10**₁ (2020) # 2776 (9). [\[DOI\]](#)
22. Md Sh.A.Hossain, M.Mustapić, **D. GAJDA**, C.Senatore, D.Patel, Y.Yamauchi, M.Shahbazi, R.Flukiger,
Significant Reduction of Critical Current Anisotropy in Malic Acid Treated MgB₂ Tapes.
J. Magn. Magn. Mater. **497** (2020) # 166 046 (6). [\[DOI\]](#)
23. **R. IDCZAK**, B.Kaśków, R.Konieczny, J.Chojcan,
MÖSSBAUER Study of Vacancy–Solute Pairs in Iron-Based Binary Alloys.
Physica B **577** (2020) # 411 794 (8). [\[DOI\]](#)
24. M.M.Ismail, I.K.Batisha, L.Zur, A.Chiasera, M.Ferrari, **A.ŁUKOWIAK**,
Optical Properties of Nd³⁺-Doped Phosphate Glasses.
Opt. Mater. **99** (2020) # 109 591 (6). [\[DOI\]](#)
25. R.Jakubas, **A.GĄGOR**, **M.J. WINIARSKI**, **M. ПТАК**, A.Piecha-Bisiorek, A.Cizman,
**Ferroelectricity in Ethylammonium Bismuth-Based Organic–Inorganic Hybrid:
(C₂H₅NH₃)₂[BiBr₅].**
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26. **J. JANCZAK**,
Supramolecular Solid-State Architecture Formed by Co-crystallization of Melamine and Phenylacetic Acid.
J. Mol. Struct. **1207** (2020) # 127 833 (10). [\[DOI\]](#)
27. **J. JANCZAK**,
Coordination Properties of Diethylenetriamine in Relation to Zinc Phthalocyanine.
Polyhedron **178** (2020) # 114 313 (15). [\[DOI\]](#)
28. **J.JURASZEK**, **R. WAWRYK**, **Z. HENKIE**, M.Konczykowski, **T. CICHOREK**,
Symmetry of Order Parameters in Multiband Superconductors LaRu₄As₁₂ and PrOs₄Sb₁₂ Probed by Local Magnetization Measurements.
Phys. Rev. Lett. **124** (2020) # 02 7001 (6). [\[DOI\]](#)
29. R.Juroszek, M.Czaja, **R. LISIECKI**, B.Krüger, B.Hachuła, I.Galuskina,
Spectroscopic and Structural Investigations of Blue Afwillite from Ma’ale Adummim Locality, Palestinian Autonomy.
Spectrochim. Acta A **227** (2020) # 117 688 (11). [\[DOI\]](#)
30. А.П.Каманцев, А.А.Амиров, **YU.S. KOSHKID’KO**, С.С.Мејја, А.В.Маширов, А.М.Алиев,
В.В.Коледов, В.Г.Шавров,
Магнитокалорический эффект в сплаве Fe₄₉Rh₅₁ в импульсных магнитных полях до 50 Т.
[Magnetocaloric Effect in Alloy Fe₄₉Rh₅₁ in Pulsed Magnetic Fields up to 50 T.]
Физ. Твёрд. Тела **62**₁ (2020) 117–20 [in Russian]. [\[DOI\]](#)
Engl. in: *Phys. Solid State* **62**₁ (2020) 160–63. [\[DOI\]](#)
31. D.Karoblis, K.Mazeika, D.Baltrunas, **A.ŁUKOWIAK**, **W. STRĘK**, A.Zarkov, A.Kareiva,
Novel Synthetic Approach to the Preparation of Single-Phase Bi_xLa_{1-x}MnO_{3+δ} Solid Solutions.
J. Sol–Gel Sci. Technol. **92**₃ (2020) 650–56. [\[DOI\]](#)
32. A.Kędziora, M.Wernecki, K.Korzekwa, M.Speruda, **YU.GERASYMCHUK**, **A.ŁUKOWIAK**,
G.Bugla-Płoskońska,
Consequences of Long-Term Bacteria’s Exposure to Silver Nanoformulations with Different PhysicoChemical Properties.
Int. J. Nanomed. **15**₁ (2020) 199–213. [\[DOI\]](#)

33. B.Klimesz, **R. LISIECKI, W. RYBA-ROMANOWSKI**,
Thermosensitive Tm³⁺/Yb³⁺ Co-doped Oxyfluorotellurite Glasses – Spectroscopic and Temperature Sensor Properties.
J. Alloy. Compd. **823** (2020) # 153 753 (13). [\[DOI\]](#)
34. **K. KNIEĆ**, M.Tikhomirov, B.Poźniak, **K. LEDWA, Ł.MARCINIAK**,
LiAl₅O₈ : Fe³⁺ and LiAl₅O₈ : Fe³⁺, Nd³⁺ as a New Luminescent Nanothermometer Operating in 1st Biological Optical Window.
Nanomaterials **10**₂ (2020) # 189 (12). [\[DOI\]](#)
35. **J. KOMAR, R. LISIECKI**, M.Głowacki, M.Berkowski, **M. SUSZYŃSKA, W. RYBA-ROMANOWSKI**,
Spectroscopic Properties of Dy³⁺ Ions in La₃Ga_{5.5}Ta_{0.5}O₁₄ Single Crystal.
J. Lumin. **220** (2020) # 116 989 (7). [\[DOI\]](#)
36. **YU.KOSHKID’KO**, S.Pandey, **J. ĆWIK**, I.Dubenko, A.Aryal, A.Granovsky, **D. SZYMAŃSKI**,
Sh.Stadler, E.Lähderanta, Naushad Ali,
Relaxation Phenomena in Adiabatic Temperature Changes Near Magnetostructural Transitions in HEUSLER Alloys.
J. Alloy. Compd. **821** (2020) # 153 402 (8). [\[DOI\]](#)
37. T.Koutzarova, S.Kolev, K.Krezhov, B.Georgieva, Ch.Ghelev, D.Kovacheva, B.Vertruyen, R.Closset,
L.M. TRAN, M. BABIJ, A.J. ZALESKI,
Ni-Substitution Effect on the Properties of Ba_{0.5}Sr_{1.5}Zn_{2-x}Ni_xFe₁₂O₂₂ Powders.
J. Magn. Magn. Mater. **505** (2020) # 166 725 (6). [\[DOI\]](#)
38. **K.A.LEDWA, L.KEPIŃSKI**, M.Pawlyta,
Atomically Dispersed Cerium Species in NM_xCe_{1-x}O₂ / Al₂O₃ (NM = Rh, Ru) Catalysts.
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39. **K. LEMAŃSKI**, M.Michalska, **M. PTAK, M. MAŁECKA**, A.Szysiak,
Surface Modification Using Silver Nanoparticles for Y₄Al₂O₉ : Nd – Synthesis and Their Selected Studies.
J. Mol. Struct. **1202** (2020) # 127 363 (6). [\[DOI\]](#)
40. **K. LEMAŃSKI**, D.Sztolberg, B.Brzostowski, A.Drzewiecki, **D. STEFAŃSKA, P.J. DEREŃ**,
Spectroscopic and Paramagnetic Properties of LaAlO₃ Polycrystals Doped With Vanadium Ions.
J. Lumin. **221** (2020) # 117 059 (6). [\[DOI\]](#)
41. G.Leniec, S.M.Kaczmarek, **L.MACALIK**, P.Ropuszyńska-Robak, **J. HANUZA**,
Magnetic Properties of KY_{0.93}Er_{0.05}Tm_{0.02}(WO₄)₂ and NaY_{0.97}Er_{0.02}Tm_{0.01}(WO₄)₂ Nanocrystals Obtained Using PECHINI and Hydrothermal Methods.
J. Phys. Chem. Solids **138** (2020) # 109 273 (7). [\[DOI\]](#)
42. DanPing Ling, HaiHong Li, WenSong Xi, Zhuo Wang, **A.BEDNARKIEWICZ**, S.T.Dibaba, Liyi Shi,
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Heterodimers Made of Metal–Organic Frameworks and Upconversion Nanoparticles for Bioimaging and pH-Responsive Dual-Drug Delivery.
J. Mater. Chem. B **8**₆ (2020) 1316–25. [\[DOI\]](#)
43. **R. LISIECKI, M. ŁUKASZEWICZ**, B.Klimesz, **W. RYBA-ROMANOWSKI**,
Er³⁺, Yb³⁺-Doped Oxyfluorotellurite Glasses – Impact of Temperature on Spectroscopic Properties and Optical Sensor Qualities.
J. Non-Cryst. Solids **535** (2020) # 119 965 (8). [\[DOI\]](#)
44. **R. LISIECKI, W. RYBA-ROMANOWSKI**,
Silica-Based Oxyfluoride Glass and Glass–Ceramic Doped with Tm³⁺ and Yb³⁺ – VUV–VIS–NIR Spectroscopy and Optical Thermometry.
J. Alloy. Compd. **814** (2020) # 152 304 (9). [\[DOI\]](#)

45. YangYang Liu, J.E.Beetar, Md M.Hosen, G.Dhakal, Ch.Sims, F.Kabir, M.B.Etienne, K.Dimitri, S.Regmi, Yong Liu, A.K.Pathak, **D. KACZOROWSKI**, M.Neupane, M.Chini,
Extreme Ultraviolet Time- and Angle-Resolved Photoemission Setup with 21.5 meV Resolution Using High-Order Harmonic Generation from a Turn-Key Yb:KGW Amplifier.
Rev. Sci. Instr. **91** (2020) # 01 3102 (9). [\[DOI\]](#)
46. **M. ŁUKASZEWICZ, R. TOMALA, R. LISIECKI,**
From Upconversion to Thermal Radiation: Spectroscopic Properties of a Submicron $\text{Y}_2\text{O}_3 : \text{Er}^{3+}, \text{Yb}^{3+}$ Ceramic under IR Excitation in an Extremely Broad Temperature Range.
J. Mater. Chem. C **8**₃ (2020) 1072–82. [\[DOI\]](#)
47. **K. MACIEJEWSKA, B.Poźniak, M.Tikhomirov, A.KOBYLIŃSKA, Ł.MARCINIAK,**
Synthesis, Cytotoxicity Assessment and Optical Properties Characterization of Colloidal $\text{GdPO}_4 : \text{Mn}^{2+}, \text{Eu}^{3+}$ for High Sensitivity Luminescent Nanothermometers Operating in the Physiological Temperature Range.
Nanomaterials **10**₃ (2020) # 421 (15). [\[DOI\]](#)
48. **M. MAĆZKA, M. PTAK, A.GĄGOR, D. STEFAŃSKA, J.K.Zaręba, A.Sieradzki,**
Methylhydrazinium Lead Bromide: Noncentrosymmetric Three-Dimensional Perovskite with Exceptionally Large Framework Distortion and Green Photoluminescence.
Chem. Mater. **32**₄ (2020) 1667–73. [\[DOI\]](#)
49. **M. MAĆZKA, D. STEFAŃSKA, J.K.Zaręba, M.Nyk, A.Sieradzki,**
Temperature-Dependent Luminescence and Second-Harmonic Generation of Perovskite-Type Manganese and Cadmium Dicyanamide Frameworks Templated by Tetrapropylammonium Cations.
J. Alloy. Compd. **821** (2020) # 153 464 (6). [\[DOI\]](#)
50. **M.A.MALECKA, K.Matus, P. WOŹNIAK,**
Decoration of Cube-Like Ceria Crystals by Well-Dispersed Au Nanoparticles: Surface Influence.
Chem. Select **5**₁₀ (2020) 2 871–77. [\[DOI\]](#)
51. **Ł.MARCINIAK, K. ELŻBIECIAK-PIECKA, K. KNIEĆ, A.BEDNARKIEWICZ,**
Assessing Thermometric Performance of Sr_2CeO_4 and $\text{Sr}_2\text{CeO}_4 : \text{Ln}^{3+}$ ($\text{Ln}^{3+} = \text{Sm}^{3+}, \text{Ho}^{3+}, \text{Nd}^{3+}, \text{Yb}^{3+}$) Nanocrystals in Spectral and Temporal Domain.
Chem. Eng. J. **388** (2020) # 124 347 (?). [\[DOI\]](#)
52. A.A.L.Marins, S.G.Banhos, P.C.M.Cruz, R.V.Rodrigues, **Ł.MARCINIAK, E.J.B.Muri, W. STRĘK,** M.B.J.G. de Freitas,
Synthesis of Ni and Rare Earth Metal (La, Pr, and Nd) Oxides from Spent Ni-MH Batteries by Selective Precipitation with Formic Acid: An Investigation of Photoluminescence Properties.
Ionics **26**₁ (2020) 311–21. [\[DOI\]](#)
53. K.Marycz, A.Śmieszek, **S. TARGOŃSKA, S.A.Walsh, K.Szustakiewicz, R.J. WIGLUSZ,**
Three Dimensional (3D) Printed Polylactic Acid with Nano-Hydroxyapatite Doped with Europium(III) Ions (nHAp / PLLA@Eu³⁺) Composite for Osteochondral Defect Regeneration and Theranostics.
Mater. Sci. Eng. C **110** (2020) # 110 634 (15). [\[DOI\]](#)
54. K.Marycz, **P. SOBIERAJSKA, M.Roecken, K.Kornicka-Garbowska, M.Kępska, R. IDCZAK,** J.-M.Nedelec, **R.J. WIGLUSZ,**
Iron Oxides Nanoparticles (IOs) Exposed to Magnetic Field Promote Expression of Osteogenic Markers in Osteoblasts through Integrin-alpha-3 (INTa-3) Activation, Inhibits Osteoclasts Activity and Exerts Anti-Inflammatory action.
J. Nanobiotechnol. **18** (2020) # 88 (24). [\[DOI\]](#)
55. **M. MATUSIAK, A.Krztoń-Maziopa,**
Nematicity in Chalcogenide Parent Compound Fe_{1+y}Te Probed by Thermoelectric Measurements.
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56. C. MATUSZEWSKA, Ł. MARCINIAK,
The Influence of Host Material on NIR II and NIR III Emitting Ni²⁺-Based Luminescent Thermometers in ATiO₃ : Ni²⁺ (A = Sr, Ca, Mg, Ba) Nanocrystals.
J. Lumin. **223** (2020) # 117 221 (9). [\[DOI\]](#)
57. J.J.Mboukam, M.B.Tchoula Tchokonté, A.K.H.Bashir, B.M.Sondezi, B.N.Sahu, A.M.Strydom, D. KACZOROWSKI,
Large Magnetocaloric Effect in RE₈Pd₂₄Ga (RE = Gd, Tb, Dy) Series of Compounds.
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58. J.J.Mboukam, M.B.Tchoula Tchokonté, A.K.H.Bashir, B.M.Sondezi, B.N.Sahu, A.M.Strydom, D. KACZOROWSKI,
Critical Behavior in Nd₂Pt₂In Studied Using the Magnetocaloric Effect: Comparison with the Conventional Method.
Mater. Res. Bull. **122** (2020) # 110 604 (9). [\[DOI\]](#)
59. N. MINIAJLUK, R.Boulesteix, P.J. DEREŃ,
Spark Plasma Sintering of Double Perovskite Ba₂MgWO₆ Doped with Ce³⁺ : Part I: Structural and Microstructural Characterizations.
Ceram. Int. **46**₆ (2020) 7 602–8. [\[DOI\]](#)
60. F.Moghzi, J.Soleimannejad, E.C.Sañudo, J. JANCZAK,
Sensitizing, Sensing and Chemical Separation of Tb(III) Ions: All in a Novel Copper Metal–Organic Framework.
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61. H.Naslhajian, M.Amini, S.M.F.Farnia, J. JANCZAK,
Synthesis and Characterization of a New Polyoxovanadate for the One-Pot Three-Component (A³) Coupling of Aldehydes, Amines and Alkynes.
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Heat Transport in Methane–Palladium Nanocomposites.
Физ. Низк. Темп. **46**₂ (2020) 214–18. Also in: *Low Temp. Phys.* **46**₂ (2020) 173–76. [\[DOI\]](#)
63. E.Paluch, J. REWAK-SOROCZYŃSKA, I.Jędrusik, E.Mazurkiewicz, K.Jermakow,
Prevention of Biofilm Formation by Quorum Quenching. [Mini Review]
Appl. Microbiol. Biotechnol. **104**₅ (2020) 1871–81. [\[DOI\]](#)
64. E. PISKORSKA-HOMMEL, D.A.KOWALSKA, P. KRASZKIEWICZ, M. KURNATOWSKA,
In situ XAFS Study of Highly Reducible Mixed Oxide Catalysts Ce_{0.9}Pd_{0.1}O_{2-δ} and Ce_{0.7}Yb_{0.2}Pd_{0.1}O_{2-δ}.
J. Alloy. Compd. **831** (2020) # 154 703 (9). [\[DOI\]](#)
65. M. PTAK, M. MAĆZKA,
Phonon Properties and Mechanism of Order–Disorder Phase Transition in Formamidinium Manganese Hypophosphite Single Crystal.
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66. M. PTAK, A.Majchrowski, A.Sieradzki, M. SUSZYŃSKA, M. MAĆZKA,
Crystal Growth, IR Specular Reflectance and Polarized RAMAN Studies of LiNa₅Mo₉O₃₀ Polar Single Crystal.
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Green Approach for Fabrication of a Novel Zn(II) Supramolecular Compound as New Precursor to Produce Nano-Sized Zinc(II) Oxide: Crystallography, Topology, HIRSHFELD Surface Analysis and Biological Activities.
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