

Pawel Zajdel

List of Publications by Year in descending order

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89
papers

2,823
citations

516681

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175241

52
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92
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92
docs citations

92
times ranked

4338
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Revisiting properties of CaCoSiO_{2n+2} . Crystal and electronic structure. Journal of Magnetism and Magnetic Materials, 2022, 546, 168858. | 2.3 | 5 |
| 2 | Tuning the magnetocaloric response of $\text{Gd}_{7-x}\text{Y}_x\text{Pd}_3$ ($2\text{Å} \times 6\text{Å}$) alloys by microstructural modifications. Journal of Magnetism and Magnetic Materials, 2022, 547, 168829. | 2.3 | 0 |
| 3 | Turning Molecular Springs into Nano-Shock Absorbers: The Effect of Macroscopic Morphology and Crystal Size on the Dynamic Hysteresis of Water Intrusion/Extrusion into/from Hydrophobic Nanopores. ACS Applied Materials & Interfaces, 2022, 14, 26699-26713. | 8.0 | 10 |
| 4 | Giant Negative Compressibility by Liquid Intrusion into Superhydrophobic Flexible Nanoporous Frameworks. Nano Letters, 2021, 21, 2848-2853. | 9.1 | 24 |
| 5 | Enhancing superconductivity of $\text{Lu}_{1-x}\text{Ce}_x\text{Ni}_2\text{B}_2\text{C}$ by atomic disorder. Physical Review B, 2021, 103, . | 3.2 | 11 |
| 6 | Compact Thermal Actuation by Water and Flexible Hydrophobic Nanopore. ACS Nano, 2021, 15, 9048-9056. | 14.6 | 10 |
| 7 | Inflation Negative Compressibility during Intrusion/Extrusion of a Non-Wetting Liquid into a Flexible Nanoporous Framework. Journal of Physical Chemistry Letters, 2021, 12, 4951-4957. | 4.6 | 9 |
| 8 | Preparation, structure and magnetic, electronic and thermal properties of Dy^{3+} -doped ZnCr_2Se_4 with unique geometric type spin-glass. Journal of Solid State Chemistry, 2021, 298, 122114. | 2.9 | 5 |
| 9 | Magnetocaloric effect of the $\text{Gd}_{3-x}\text{Tb}_x\text{Co}$ system. Intermetallics, 2020, 118, 106686. | 3.9 | 9 |
| 10 | Superconductivity of $\text{Y}_5\text{Rh}_6\text{Sn}_{18}$; Coexistence of the high temperature thermal lattice relaxation process and superconductivity. Journal of Alloys and Compounds, 2020, 819, 152959. | 5.5 | 9 |
| 11 | Enhancing superconductivity of $\text{Y}_5\text{Rh}_6\text{Sn}_{18}$ by atomic disorder. Physical Review B, 2020, 102, . | 3.2 | 11 |
| 12 | Evolution of the magnetic and magnetocaloric properties of Gd_6YPd_3 alloys originating from structural modifications. Journal of Magnetism and Magnetic Materials, 2020, 511, 167000. | 2.3 | 2 |
| 13 | Effect of Flexibility and Nanotriboelectrification on the Dynamic Reversibility of Water Intrusion into Nanopores: Pressure-Transmitting Fluid with Frequency-Dependent Dissipation Capability. ACS Applied Materials & Interfaces, 2019, 11, 40842-40849. | 2.4 | 21 |
| 14 | Effect of Flexibility and Nanotriboelectrification on the Dynamic Reversibility of Water Intrusion into Nanopores: Pressure-Transmitting Fluid with Frequency-Dependent Dissipation Capability. ACS Applied Materials & Interfaces, 2019, 11, 40842-40849. | 8.0 | 25 |
| 15 | Bismuth doped $\text{PbZr}_{0.70}\text{Ti}_{0.30}\text{O}_3$ ceramics and their properties driven by high temperature local polarity. Ceramics International, 2019, 45, 9871-9877. | 4.8 | 5 |
| 16 | Visualizing Uniaxial-strain Manipulation of Antiferromagnetic Domains in $\text{Fe}_{1+x}\text{YTe}$ Using a Spin-polarized Scanning Tunneling Microscope. Journal of Visualized Experiments, 2019, , . | 0.3 | 1 |
| 17 | XPS spectroscopy, structural, magnetic and dielectric investigations of CaGdAlO_4 and Yb:CaGdAlO_4 single crystals. Optical Materials, 2019, 91, 355-362. | 3.6 | 18 |
| 18 | Determination of polaronic conductivity in disordered double perovskite $\text{La}_2\text{CrMnO}_6$. Journal of Electroceramics, 2019, 42, 136-146. | 2.0 | 7 |

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|----|---|------|-----------|
| 19 | Additional phase transition in a $\text{PbZr}_{0.87}\text{Ti}_{0.13}\text{O}_3$ single crystal. Journal Physics D: Applied Physics, 2019, 52, 115302. | 2.8 | 6 |
| 20 | Polymorphs of oxindole as the core structures in bioactive compounds. CrystEngComm, 2018, 20, 1739-1745. | 2.6 | 9 |
| 21 | Application of X-ray powder diffraction and differential scanning calorimetry for identification of counterfeit drugs. Monatshefte für Chemie, 2018, 149, 977-985. | 1.8 | 12 |
| 22 | Defect induced lattice instabilities and competing interactions in niobium doped lead zirconate single crystals. Journal of Alloys and Compounds, 2018, 739, 499-503. | 5.5 | 6 |
| 23 | Growth, structure and characterization of physico-chemical and magnetic properties of $\text{CdCr}_2\text{Se}_4\text{:Mn}$ single crystals. Journal of Alloys and Compounds, 2018, 735, 480-488. | 5.5 | 4 |
| 24 | The effective increase in atomic scale disorder by doping and superconductivity in $\text{Ca}_3\text{Rh}_4\text{Sn}_{13}$. New Journal of Physics, 2018, 20, 103020. | 2.9 | 9 |
| 25 | Magnetocaloric effect of the multiphase $\text{Gd}_4\text{Tb}_x\text{Co}_3$ system. Philosophical Magazine, 2018, 98, 3300-3314. | 1.6 | 1 |
| 26 | Structure and interstitial iodide migration in hybrid perovskite methylammonium lead iodide. Nature Communications, 2017, 8, 15152. | 12.8 | 83 |
| 27 | Formation of Fe and Ni substituted $\text{LiMn}_2\text{M}_x\text{O}_4$ nanopowders and their crystal and electronic structure and magnetic properties. Materials Science-Poland, 2017, 35, 159-172. | 1.0 | 4 |
| 28 | Structure and magnetism in the bond-frustrated spinel ZnCr_2Se_4 . Physical Review B, 2017, 95, . | 3.2 | 10 |
| 29 | Impact of microstructure on the thermoelectric properties of the ternary compound $\text{Ce}_3\text{Cu}_3\text{Sb}_4$. Materials Characterization, 2017, 123, 256-263. | 4.4 | 6 |
| 30 | Suppression of the commensurate magnetic phase in nanosized $\text{h}\frac{1}{4}\text{bnerite}$ $\text{MnW}_4\text{O}_{14}$. Physical Review B, 2017, 95, . | 3.2 | 0 |
| 31 | Characterization of raw materials and self-organized $\text{Bi}_2\text{O}_3\text{:Ag}$ eutectic by X-ray diffraction, scanning electron microscopy, and X-ray photoelectron spectroscopy. Crystal Research and Technology, 2017, 52, 1700044. | 1.3 | 5 |
| 32 | Influence of nitrogen flow during sintering of bismuth manganite ceramics on grain morphology and surface disorder. Phase Transitions, 2017, 90, 112-124. | 1.3 | 11 |
| 33 | Structural, electronic and magnetic properties of $\text{Y}_4\text{Al}_2\text{O}_9$ sol-gel powders with Tb^{3+} and Yb^{3+} co-doping. Materials Research Bulletin, 2016, 83, 56-64. | 5.2 | 7 |
| 34 | Application of the effective formula of growth functional to quantitative description of growth of plant cells. Acta Physiologiae Plantarum, 2016, 38, 1. | 2.1 | 4 |
| 35 | Nb -stabilized locally broken symmetry below and above $\text{PbZr}_3\text{O}_{10}$ single crystal. Physical Review B, 2016, 93, . | 3.2 | 8 |
| 36 | Influence of nickel on the electronic structure and magnetic properties in $\text{Gd}_7\text{Pd}_3\text{Ni}_x$. Philosophical Magazine, 2016, 96, 1073-1092. | 1.6 | 6 |

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|----|--|------|-----------|
| 37 | Magnetocaloric and Hopkinson effects in slowly and rapidly cooled Gd ₇ Pd ₃ . International Journal of Materials Research, 2016, 107, 03-12. | 0.3 | 5 |
| 38 | Studies of valence of selected rare earth silicides determined using Si K and Pd/Rh L _{2,3} XANES and LAPW numerical studies. Nuclear Instruments & Methods in Physics Research B, 2015, 364, 76-84. | 1.4 | 1 |
| 39 | The phase transitions in CsFe(MoO ₄) ₂ triangular lattice antiferromagnet, neutron diffraction and high pressure studies. Journal of Alloys and Compounds, 2014, 607, 104-109. | 5.5 | 7 |
| 40 | Investigations of YF ₃ : 1% Er nanocrystals. Journal of Crystal Growth, 2014, 401, 480-483. | 1.5 | 6 |
| 41 | X-Ray diffraction, electronic structure and magnetic characterization of nano and single crystals SrLaAlO ₄ : Mn optical materials. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2014, 182, 74-80. | 3.5 | 11 |
| 42 | Growth, structure and magnetic properties of ZnCr ₂ Se ₄ -single crystals doped by dysprosium. Journal of Crystal Growth, 2014, 401, 697-701. | 1.5 | 3 |
| 43 | Single crystal growth and structural characterization of iron telluride doped with chromium and zinc. Journal of Crystal Growth, 2014, 401, 608-612. | 1.5 | 0 |
| 44 | Power spectrum, growth velocities and cross-correlations of longitudinal and transverse oscillations of individual Nicotiana tabacum pollen tube. Planta, 2014, 240, 263-276. | 3.2 | 14 |
| 45 | Electronic and crystal structure, EPR and magnetic investigations of YF ₃ :1%RE (RE = Pr, Ho, Er and Tm) and LaF ₃ :1%Pr nanocrystals. Journal of Alloys and Compounds, 2014, 616, 556-568. | 5.5 | 6 |
| 46 | Effect of Ni doping on magnetic and electrical properties of CuCr ₂ Se ₄ single crystals. Journal of Alloys and Compounds, 2014, 593, 158-162. | 5.5 | 5 |
| 47 | Evolution of magnetic and crystal structure of FeTe doped with Cr and Ni. Acta Crystallographica Section A: Foundations and Advances, 2014, 70, C1466-C1466. | 0.1 | 0 |
| 48 | Separation of Hexane Isomers in a Metal-Organic Framework with Triangular Channels. Science, 2013, 340, 960-964. | 12.6 | 589 |
| 49 | Electronic structure and magnetic properties of LiMn _{1.5} M _{0.5} O ₄ (M=Al, Mg, Ni, Fe) and LiMn ₂ O ₄ /TiO ₂ nanocrystalline electrode materials. Journal of Solid State Chemistry, 2013, 206, 257-264. | 2.9 | 13 |
| 50 | A flat band at the chemical potential of a Fe _{1.03} Te _{0.94} S _{0.06} superconductor observed by angle-resolved photoemission spectroscopy. Journal of Physics Condensed Matter, 2013, 25, 195701. | 1.8 | 6 |
| 51 | X-Ray Investigations of Polycrystalline Compounds with General Formula ZnCr _{2-2x} Nd _x Se ₄ . Solid State Phenomena, 2013, 203-204, 181-184. | 0.3 | 1 |
| 52 | X-ray powder diffraction and magnetic study of nominal Zn _{1-x} Nd _x Cr ₂ Se ₄ compounds (x=0.05, 01). Powder Diffraction, 2013, 28, S75-S85. | 0.2 | 1 |
| 53 | Influence of covalency and anion polarization on magnetic and electronic properties of ZnCr _{2-x} Ni _x Se ₄ . Journal of Alloys and Compounds, 2012, 520, 153-157. | 5.5 | 8 |
| 54 | Electronic structure analysis and properties of Sr ₂ CeO ₄ grown by sol-gel method. Materials Research Bulletin, 2012, 47, 3107-3113. | 5.2 | 10 |

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|----|--|------|-----------|
| 55 | Mössbauer study of the ϵ - Fe_{1+x}Te iron-based superconductors parent compound Fe_{1+x}Te . Journal of Physics Condensed Matter, 2012, 24, 386006. | 1.8 | 16 |
| 56 | LiMn_2O_4 nanocrystalline electrode materials. Crystal Research and Technology, 2012, 47, 351-362. | 1.3 | 4 |
| 57 | Influence of manganese on magnetic and electronic properties of ZnCr_2Se_4 . Materials Research Bulletin, 2012, 47, 1881-1886. | 5.2 | 8 |
| 58 | Site-Specific CO_2 Adsorption and Zero Thermal Expansion in an Anisotropic Pore Network. Journal of Physical Chemistry C, 2011, 115, 24915-24919. | 3.1 | 141 |
| 59 | Magnetic-crystallographic phase diagram of the superconducting parent compound Fe_{1-x}Te . Physical Review B, 2011, 84, . | 3.2 | 111 |
| 60 | Coupled Commensurate Cation and Charge Modulation in the Tunneled Structure, $\text{Na}_{0.40(2)}\text{MnO}_2$. Journal of the American Chemical Society, 2011, 133, 13950-13956. | 13.7 | 39 |
| 61 | X-ray absorption study of nickel doping on electronic properties of ZnCr_2Se_4 . Radiation Physics and Chemistry, 2011, 80, 1008-1013. | 2.8 | 3 |
| 62 | Incommensurate Magnetism in FeAs Strips: Neutron Scattering from CaFe_4As . Physical Review Letters, 2011, 106, 037201. | 7.8 | 19 |
| 63 | Noncollinear spin-density-wave antiferromagnetism in FeAs . Physical Review B, 2011, 83, . | 3.2 | 57 |
| 64 | Single crystal growth and structural properties of iron telluride doped with nickel. Crystal Research and Technology, 2010, 45, 1316-1320. | 1.3 | 4 |
| 65 | X-Ray Investigations and Magnetic Properties of $\text{CuCr}_2\text{Sn}_x\text{Se}_{4-x}$ - Compounds. Solid State Phenomena, 2010, 163, 208-212. | 0.3 | 3 |
| 66 | Spin State Transition Studied by Means of Optical Microscope. Solid State Phenomena, 2010, 163, 46-50. | 0.3 | 1 |
| 67 | Phase Separation and Suppression of the Structural and Magnetic Transitions in Superconducting Doped Iron Tellurides, $\text{Fe}_{1-x}\text{Te}_{1-y}\text{S}_y$. Journal of the American Chemical Society, 2010, 132, 13000-13007. | 13.7 | 62 |
| 68 | Computer simulation of diffuse scattering in Fe(II) spin crossover compounds. Acta Crystallographica Section A: Foundations and Advances, 2010, 66, s217-s217. | 0.3 | 0 |
| 69 | Influence of hydrogen on hydrogenated cadmium telluride optical spectra. Physica Status Solidi C: Current Topics in Solid State Physics, 2009, 6, 2016-2019. | 0.8 | 0 |
| 70 | Effect of cation substitution on electrical conduction of the n-type $\text{Zn}_x\text{Sn}_y\text{Cr}_z\text{Se}_4$ spinels. Journal of Alloys and Compounds, 2009, 480, 63-66. | 5.5 | 6 |
| 71 | $\text{Fe}(\text{Te},\text{Se})$ Superconductors. Physical Review Letters, | 7.8 | 601 |
| 72 | Effect of Cation Substitution on Critical Fields in the n-type $\text{Zn}_x\text{Sn}_y\text{Cr}_z\text{Se}_4$ Spinel Semiconductors. Acta Physica Polonica A, 2009, 116, 971-974. | 0.5 | 1 |

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|----|--|------|-----------|
| 73 | Electrical and Magnetic Studies of Zn _x Mn _y Cr _z Se _{4-p} -Type Semiconductors. Acta Physica Polonica A, 2009, 116, 913-915. | 0.5 | 0 |
| 74 | Analysis of the phonon line profile of hydrogenated CdTe. Journal of Physics Condensed Matter, 2008, 20, 325217. | 1.8 | 3 |
| 75 | Interstitial oxide ion conductivity in the layered tetrahedral network melilite structure. Nature Materials, 2008, 7, 498-504. | 27.5 | 258 |
| 76 | Pressure-induced volume-collapsed tetragonal phase of $\text{CaFe}_{2/3}\text{Mn}_{1/3}\text{O}_2$ seen via neutron scattering. Physical Review B, 2008, 78, . | 3.2 | 335 |
| 77 | The Mössbauer Spectroscopy and Analytical Investigations of the Polycrystalline Compounds with General Formula Zn _x Sn _y Cr _z Se ₄ . Acta Physica Polonica A, 2008, 114, 1591-1597. | 0.5 | 1 |
| 78 | Influence of vacancies on the electrical properties of the ZnCr _{2-x} Ni _x Se ₄ spinels. Journal of Physics and Chemistry of Solids, 2007, 68, 80-86. | 4.0 | 15 |
| 79 | Polaron conductivity of the strongly defective ZnCr _{2-x} Ni _x Se ₄ spinels. Physica Status Solidi C: Current Topics in Solid State Physics, 2007, 4, 1309-1312. | 0.8 | 3 |
| 80 | Model considerations on hydrogen distribution in hydrogenated CdTe. Journal of Alloys and Compounds, 2006, 426, 12-21. | 5.5 | 7 |
| 81 | Phonon and vibrational spectra of hydrogenated CdTe. Journal of Applied Physics, 2006, 100, 013521. | 2.5 | 21 |
| 82 | On the statistical background of the correlation of the magnetic and electrical properties as well as of the creation of a spin-glass state in spinels with chromium. Journal of Physics and Chemistry of Solids, 2005, 66, 2044-2048. | 4.0 | 2 |
| 83 | The Influence of the Concentration of Sb Ions onto the Local Crystal and Electronic Structures of CuCr _{2-x} Sb _x S ₄ (x = 0.3, 0.4, 0.5) Studied by XANES and EXAFS Measurements and LAPW Numerical Calculations.. ChemInform, 2005, 36, no. | 0.0 | 0 |
| 84 | The influence of the concentration of Sb ions onto the local crystal and electronic structures of CuCr _{2-x} Sb _x S ₄ (x=0.3, 0.4, 0.5) studied by XANES and EXAFS measurements and LAPW numerical calculations. Journal of Alloys and Compounds, 2005, 401, 145-149. | 5.5 | 11 |
| 85 | On the influence of Sb concentration on the magnetization and magnetoresistivity in the spinel compounds CuCr _{2-x} Sb _x S ₄ (where x = 0.3, 0.4, 0.5). Journal of Alloys and Compounds, 2004, 377, 53-58. | 5.5 | 9 |
| 86 | XANES study of K edges of Fe, Co, Ni, and Se in transition metal selenides. Experiment and comparison with LMTO numerical calculations. Journal of Alloys and Compounds, 1999, 286, 61-65. | 5.5 | 9 |
| 87 | XANES study of sulphur K edges of transition metal (V, Cr, Mn, Fe, Co, Ni) monosulphides: experiment and LMTO numerical calculations. Journal of Alloys and Compounds, 1999, 286, 66-70. | 5.5 | 11 |
| 88 | Influence of Manganese and Tin Substitution on the Structure and Magnetic Properties of CdCr ₂ Se ₄ . Solid State Phenomena, 0, 163, 204-207. | 0.3 | 3 |
| 89 | X-Ray Analysis of New Gadolinium Doped CuCr ₂ Se ₄ . Solid State Phenomena, 0, 203-204, 146-149. | 0.3 | 0 |