

# Stanislaw Gierlotka

## List of Publications by Year in descending order

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48  
papers

780  
citations

566801

15  
h-index

525886

27  
g-index

53  
all docs

53  
docs citations

53  
times ranked

1090  
citing authors

#	ARTICLE	IF	CITATIONS
1	Influence of hydrothermal synthesis parameters on the properties of hydroxyapatite nanoparticles. Beilstein Journal of Nanotechnology, 2016, 7, 1586-1601.	1.5	93
2	Size control mechanism of ZnO nanoparticles obtained in microwave solvothermal synthesis. Nanotechnology, 2018, 29, 065601.	1.3	64
3	Targeted Nano-Drug Delivery of Colchicine against Colon Cancer Cells by Means of Mesoporous Silica Nanoparticles. Cancers, 2020, 12, 144.	1.7	60
4	Effect of Water Content in Ethylene Glycol Solvent on the Size of ZnO Nanoparticles Prepared Using Microwave Solvothermal Synthesis. Journal of Nanomaterials, 2016, 2016, 1-15.	1.5	58
5	Folic acid-conjugated mesoporous silica particles as nanocarriers of natural prodrugs for cancer targeting and antioxidant action. Oncotarget, 2018, 9, 26466-26490.	0.8	57
6	Paramagnetism of cobalt-doped ZnO nanoparticles obtained by microwave solvothermal synthesis. Beilstein Journal of Nanotechnology, 2015, 6, 1957-1969.	1.5	44
7	Nanocrystals: Breaking limitations of data analysis. Zeitschrift für Kristallographie, 2010, 225, 588-598.	1.1	40
8	Effective Targeting of Colon Cancer Cells with Piperine Natural Anticancer Prodrug Using Functionalized Clusters of Hydroxyapatite Nanoparticles. Pharmaceutics, 2020, 12, 70.	2.0	29
9	Spectroscopic Studies of Nanopowder and Nanoceramics <sc><sc>La</sc></sc><sub>2</sub><sc><sc>Hf</sc></sc><sub>2</sub><sc><sc>O</sc></sc><sub>7</sub></sc><sub>27</sub><sc><sc>Scintillator. Journal of the American Ceramic Society, 2014, 97, 1595-1601.	1.9	27
10	Application of the apparent lattice parameter to determination of the core-shell structure of nanocrystals. Zeitschrift Fur Kristallographie - Crystalline Materials, 2007, 222, 580-594.	0.4	26
11	&lt;p&gt;Virucidal Action Against Avian Influenza H5N1 Virus and Immunomodulatory Effects of Nanoformulations Consisting of Mesoporous Silica Nanoparticles Loaded with Natural Prodrugs&lt;/p&gt;. International Journal of Nanomedicine, 2020, Volume 15, 5181-5202.	3.3	26
12	Nanocrystalline Al <sub>3</sub> Ni <sub>2</sub> alloy with high hardness produced by mechanical alloying and high-pressure hot-pressing consolidation. Intermetallics, 2013, 42, 35-40.	1.8	19
13	Anti-inflammatory and antioxidant effects of nanoformulations composed of metal-organic frameworks delivering rutin and/or piperine natural agents. Drug Delivery, 2021, 28, 1478-1495.	2.5	19
14	X-Ray Diffraction Study of the Smectic I, F, J and G Phases of 4-(2-Methylbutyl Phenyl)-4-n-Octyphenyl-4-Carboxylate. Liquid Crystals, 1988, 3, 1535-1541.	0.9	18
15	Al <sub>3</sub> Ni <sub>2</sub> -Al composites with nanocrystalline intermetallic matrix produced by consolidation of milled powders. Advanced Powder Technology, 2014, 25, 1362-1368.	2.0	18
16	Nanocrystalline matrix Al <sub>3</sub> Ni <sub>2</sub> -Al-Al <sub>3</sub> Ni composites produced by reactive hot-pressing of milled powders. Intermetallics, 2014, 54, 193-198.	1.8	15
17	Recrystallization and grain growth of a nano/ultrafine structured austenitic stainless steel during annealing under high hydrostatic pressure. Journal of Materials Science, 2018, 53, 11823-11836.	1.7	15
18	Experimental and theoretical evidence of the temperature-induced wurtzite to rocksalt phase transition in GaN under high pressure. Physical Review B, 2020, 102, .	1.1	15

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19	<i>NanoPDF64</i> : software package for theoretical calculation and quantitative real-space analysis of powder diffraction data of nanocrystals. <i>Journal of Applied Crystallography</i> , 2017, 50, 1821-1829.	1.9	13
20	Synthesis of Metal-Ceramic Nanocomposites by High-Pressure Infiltration. <i>Solid State Phenomena</i> , 2005, 101-102, 157-164.	0.3	12
21	Atomic structure of nanodiamond and its evolution upon annealing up to 1200°C: Real space neutron diffraction analysis supported by MD simulations. <i>Diamond and Related Materials</i> , 2019, 93, 139-149.	1.8	10
22	A model of density waves in atomic structure of nanodiamond by molecular dynamics simulations. <i>Diamond and Related Materials</i> , 2019, 91, 1-14.	1.8	9
23	Remarkable thermal conductivity reduction in metal-semiconductor nanocomposites. <i>Applied Physics Letters</i> , 2013, 103, .	1.5	8
24	NiAl-B composites with nanocrystalline intermetallic matrix produced by mechanical alloying and consolidation. <i>Advanced Powder Technology</i> , 2019, 30, 2742-2750.	2.0	7
25	Structural and magnetic properties of ceramics prepared by high-pressure high-temperature sintering of manganese-doped gallium nitride nanopowders. <i>Journal of the European Ceramic Society</i> , 2016, 36, 1033-1044.	2.8	6
26	Nanocrystalline Al <sub>5</sub> Fe <sub>2</sub> intermetallic and Al <sub>5</sub> Fe <sub>2</sub> -Al composites manufactured by high-pressure consolidation of milled powders. <i>Journal of Alloys and Compounds</i> , 2016, 656, 82-87.	2.8	6
27	Phase stability of rare earth sesquioxides with grain size controlled in the nanoscale. <i>Journal of the American Ceramic Society</i> , 2019, 102, 3829-3835.	1.9	6
28	Novel nanoceramics from in situ made nanocrystalline powders of pure nitrides and their composites in the system aluminum nitride AlN/gallium nitride GaN/aluminum gallium nitride Al <sub>0.5</sub> Ga <sub>0.5</sub> N. <i>Journal of the European Ceramic Society</i> , 2020, 40, 5339-5348.	2.8	6
29	Influence of Temperature and Pressure on the Possibility of Obtaining Al <sub>2</sub> O <sub>3</sub> /Ni-P Nanocomposite through Hot Pressing Process. <i>Solid State Phenomena</i> , 2005, 101-102, 147-150.	0.3	5
30	SiC-Zn Nanocomposites Obtained Using the High Pressure Infiltration Technique. <i>Solid State Phenomena</i> , 2006, 114, 257-264.	0.3	5
31	Application of PDF analysis assisted by MD simulations for determination of the atomic structure and crystal habit of CdSe nanocrystals. <i>Journal of Physics Condensed Matter</i> , 2018, 30, 345901.	0.7	5
32	Atomic structure and grain shape evolution of nanodiamond during annealing in oxidizing atmosphere from neutron diffraction and MD simulations. <i>Diamond and Related Materials</i> , 2021, 111, 108177.	1.8	5
33	The shape and surface structure of detonation nanodiamond purified in oxidizing chemical environment. <i>Diamond and Related Materials</i> , 2021, 113, 108286.	1.8	5
34	Looking beyond Limitations of Diffraction Methods of Structural Analysis of Nanocrystalline Materials. <i>IUTAM Symposium on Cellular, Molecular and Tissue Mechanics</i> , 2009, , 75-88.	0.1	4
35	Collective charge transport in semiconductor-metal hybrid nanocomposite. <i>Applied Physics Letters</i> , 2013, 102, 053107.	1.5	4
36	Post-synthesis treatment of silicon carbide nanowires obtained in combustion synthesis. <i>Materials Science in Semiconductor Processing</i> , 2016, 42, 326-333.	1.9	4

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37	Structure of plate-shape nanodiamonds synthesized from chloroadamantane—are they still diamonds?. Journal of Physics Condensed Matter, 2021, 33, 175002.	0.7	4
38	Synthesis of Metal-Ceramic Nanocomposites by High-Pressure Infiltration. Solid State Phenomena, 0, , 157-164.	0.3	4
39	Error Estimation in XRD Crystallite Size Measurements. Solid State Phenomena, 2006, 114, 313-320.	0.3	3
40	Growth and Properties of Ytterbium Doped KY(WO <sub>4</sub> ) <sub>2</sub> Nanocomposites. Solid State Phenomena, 2007, 128, 25-30.	0.3	2
41	Phenomena Occurring in Nanostructured Stainless Steel 316LVM during Annealing under High Hydrostatic Pressure. Advanced Engineering Materials, 2019, 21, 1800101.	1.6	2
42	Fabrication and Physical Properties of SiC-GaAs Nano-Composites. Solid State Phenomena, 2006, 114, 297-302.	0.3	1
43	SiC – Zn Nanocomposites Obtained Using the High – Pressure Infiltration Technique. Solid State Phenomena, 0, , 257-264.	0.3	1
44	Microwave-Driven Hydrothermal Synthesis of Oxide Nanopowders for Applications in Optoelectronics. , 2005, , 163-179.		0
45	<title>Sol-gel processed iron-containing silica films on Si</title>. , 2005, , .		0
46	Fabrication and Micro-Structure Characterization of Al <sub>2</sub> O <sub>3</sub> /Ni-P Composites with Interpenetrating Phases. Solid State Phenomena, 2006, 114, 219-226.	0.3	0
47	Microstructural Evolution during Mechanical Alloying and Hot Pressing of a Powder Blend of Aluminium and 316 Stainless Steel. Solid State Phenomena, 2006, 114, 211-218.	0.3	0
48	Al <sub>13</sub> Fe <sub>4</sub> -Al Composites with Nanocrystalline Matrix Manufactured by Hot-Pressing of Milled Powders. Materials, 2022, 15, 4241.	1.3	0