

Witold Lojkowski

List of Publications by Year in descending order

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Version: 2024-02-01

71
papers

2,309
citations

201385

27
h-index

233125

45
g-index

73
all docs

73
docs citations

73
times ranked

3193
citing authors

#	ARTICLE	IF	CITATIONS
1	A Review of Microwave Synthesis of Zinc Oxide Nanomaterials: Reactants, Process Parameters and Morphologies. <i>Nanomaterials</i> , 2020, 10, 1086.	1.9	217
2	Graphene Oxide-Based Nanocomposites Decorated with Silver Nanoparticles as an Antibacterial Agent. <i>Nanoscale Research Letters</i> , 2018, 13, 116.	3.1	129
3	Europium doped zirconia luminescence. <i>Optical Materials</i> , 2010, 32, 827-831.	1.7	102
4	The effect of pulsed electric field on drying kinetics, color, and microstructure of carrot. <i>Drying Technology</i> , 2016, 34, 1286-1296.	1.7	101
5	Influence of hydrothermal synthesis parameters on the properties of hydroxyapatite nanoparticles. <i>Beilstein Journal of Nanotechnology</i> , 2016, 7, 1586-1601.	1.5	93
6	The structure of intercrystalline interfaces. <i>Progress in Materials Science</i> , 2000, 45, 339-568.	16.0	92
7	Size control mechanism of ZnO nanoparticles obtained in microwave solvothermal synthesis. <i>Nanotechnology</i> , 2018, 29, 065601.	1.3	64
8	Significance of polymethylmethacrylate (PMMA) modification by zinc oxide nanoparticles for fungal biofilm formation. <i>International Journal of Pharmaceutics</i> , 2016, 510, 323-335.	2.6	60
9	Targeted Nano-Drug Delivery of Colchicine against Colon Cancer Cells by Means of Mesoporous Silica Nanoparticles. <i>Cancers</i> , 2020, 12, 144.	1.7	60
10	Effect of Microwave Radiation Power on the Size of Aggregates of ZnO NPs Prepared Using Microwave Solvothermal Synthesis. <i>Nanomaterials</i> , 2018, 8, 343.	1.9	59
11	Effect of Water Content in Ethylene Glycol Solvent on the Size of ZnO Nanoparticles Prepared Using Microwave Solvothermal Synthesis. <i>Journal of Nanomaterials</i> , 2016, 2016, 1-15.	1.5	58
12	Folic acid-conjugated mesoporous silica particles as nanocarriers of natural prodrugs for cancer targeting and antioxidant action. <i>Oncotarget</i> , 2018, 9, 26466-26490.	0.8	57
13	Zinc Oxide Nanoparticles Cytotoxicity and Release from Newly Formed PMMA/ZnO Nanocomposites Designed for Denture Bases. <i>Nanomaterials</i> , 2019, 9, 1318.	1.9	51
14	Highly biocompatible, nanocrystalline hydroxyapatite synthesized in a solvothermal process driven by high energy density microwave radiation. <i>International Journal of Nanomedicine</i> , 2013, 8, 653.	3.3	49
15	Size-dependent density of zirconia nanoparticles. <i>Beilstein Journal of Nanotechnology</i> , 2015, 6, 27-35.	1.5	49
16	In vivo and in vitro study of a novel nanohydroxyapatite sonocoated scaffolds for enhanced bone regeneration. <i>Materials Science and Engineering C</i> , 2019, 99, 669-684.	3.8	49
17	Synthesis of nanoparticulate yttrium aluminum garnet in supercritical water/ethanol mixtures. <i>Journal of Supercritical Fluids</i> , 2007, 40, 284-292.	1.6	48
18	Zinc Oxide Nanoparticles Impair the Integrity of Human Umbilical Vein Endothelial Cell Monolayer & In Vitro. <i>Journal of Biomedical Nanotechnology</i> , 2012, 8, 957-967.	0.5	47

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19	Paramagnetism of cobalt-doped ZnO nanoparticles obtained by microwave solvothermal synthesis. Beilstein Journal of Nanotechnology, 2015, 6, 1957-1969.	1.5	44
20	Mechanical and Physicochemical Properties of Newly Formed ZnO-PMMA Nanocomposites for Denture Bases. Nanomaterials, 2018, 8, 305.	1.9	43
21	Solvothermal synthesis of nanocrystalline zinc oxide doped with Mn ²⁺ , Ni ²⁺ , Co ²⁺ and Cr ³⁺ ions. Journal of Nanoparticle Research, 2009, 11, 1991-2002.	0.8	42
22	Microwave solvothermal synthesis and characterization of manganese-doped ZnO nanoparticles. Beilstein Journal of Nanotechnology, 2016, 7, 721-732.	1.5	41
23	Graphene Oxide in a Composite with Silver Nanoparticles Reduces the Fibroblast and Endothelial Cell Cytotoxicity of an Antibacterial Nanoplatform. Nanoscale Research Letters, 2019, 14, 320.	3.1	36
24	Nanoparticle Size Effect on Water Vapour Adsorption by Hydroxyapatite. Nanomaterials, 2019, 9, 1005.	1.9	34
25	<p>Targeted anticancer potential against glioma cells of thymoquinone delivered by mesoporous silica core-shell nanoformulations with pH-dependent release</p>. International Journal of Nanomedicine, 2019, Volume 14, 5503-5526.	3.3	34
26	Delivery of Natural Agents by Means of Mesoporous Silica Nanospheres as a Promising Anticancer Strategy. Pharmaceutics, 2021, 13, 143.	2.0	30
27	Effective Targeting of Colon Cancer Cells with Piperine Natural Anticancer Prodrug Using Functionalized Clusters of Hydroxyapatite Nanoparticles. Pharmaceutics, 2020, 12, 70.	2.0	29
28	Polymer Membranes Sonocoated and Electrosprayed with Nano-Hydroxyapatite for Periodontal Tissues Regeneration. Nanomaterials, 2019, 9, 1625.	1.9	28
29	Luminescence Properties of ZnO Nanocrystals and Ceramics. IEEE Transactions on Nuclear Science, 2008, 55, 1551-1555.	1.2	27
30	Spectroscopic Studies of Nanopowder and Nanoceramics <sc><sc>La</sc></sc>₂<sc><sc>Hf</sc></sc>₂<sc><sc>O</sc></sc>₇<sc><sc>Sc</sc></sc>₂</sc> Scintillator. Journal of the American Ceramic Society, 2014, 97, 1595-1601.	1.9	27
31	Size Control of Cobalt-Doped ZnO Nanoparticles Obtained in Microwave Solvothermal Synthesis. Crystals, 2018, 8, 179.	1.0	27
32	<p>Virucidal Action Against Avian Influenza H5N1 Virus and Immunomodulatory Effects of Nanoformulations Consisting of Mesoporous Silica Nanoparticles Loaded with Natural Prodrugs</p>. International Journal of Nanomedicine, 2020, Volume 15, 5181-5202.	3.3	26
33	Luminescence Properties and Energy Transfer Processes in Nanosized Cerium Doped YAG. IEEE Transactions on Nuclear Science, 2008, 55, 1509-1513.	1.2	25
34	High-Energy-Low-Temperature Technologies for the Synthesis of Nanoparticles: Microwaves and High Pressure. Inorganics, 2014, 2, 606-619.	1.2	24
35	Evaluation of Microstructure and Mechanical Properties of Nano-Y2O3-Dispersed Ferritic Alloy Synthesized by Mechanical Alloying and Consolidated by High-Pressure Sintering. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2013, 44, 2884-2894.	1.1	22
36	<p>Nanoparticles And Human Saliva: A Step Towards Drug Delivery Systems For Dental And Craniofacial Biomaterials</p>. International Journal of Nanomedicine, 2019, Volume 14, 9235-9257.	3.3	22

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37	Influence of Pressure-Induced Transition from Nanocrystals to Nanoceramic Form on Optical Properties of Ce-Doped $Y_{3-x}Al_xO_{12}$. Journal of the American Ceramic Society, 2011, 94, 2135-2140.	1.9	21
38	Nanoformulation Composed of Ellagic Acid and Functionalized Zinc Oxide Nanoparticles Inactivates DNA and RNA Viruses. Pharmaceutics, 2021, 13, 2174.	2.0	21
39	Structural and Magnetic Properties of Co-Mn Codoped ZnO Nanoparticles Obtained by Microwave Solvothermal Synthesis. Crystals, 2018, 8, 410.	1.0	19
40	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
41	Drug-Releasing Antibacterial Coating Made from Nano-Hydroxyapatite Using the Sonocoating Method. Nanomaterials, 2021, 11, 1690.	1.9	19
42	Comprehensive structural studies of ultra-fine nanocrystalline calcium hydroxyapatite using MAS NMR and FT-IR spectroscopic methods. Materials Research Bulletin, 2013, 48, 4818-4825.	2.7	18
43	Peculiarities of luminescent properties of cerium doped YAG transparent nanoceramics. Radiation Measurements, 2010, 45, 392-394.	0.7	17
44	Hydroxyapatite Nanopowder Synthesis with a Programmed Resorption Rate. Journal of Nanomaterials, 2012, 2012, 1-9.	1.5	17
45	ZnFe ₂ O ₄ /ZnO nanoparticles obtained by coprecipitation route, XPS and TEM study. Physica Status Solidi C: Current Topics in Solid State Physics, 2010, 7, 1420-1423.	0.8	16
46	Advanced nanocrystalline ZrO ₂ for optical oxygen sensors. , 2009, , .		15
47	Preparation and characterization of ZnO-PMMA resin nanocomposites for denture bases. Acta of Bioengineering and Biomechanics, 2016, 18, 31-41.	0.2	15
48	Preparation and Characterisation of Poly(methyl metacrylate)-Titanium Dioxide Nanocomposites for Denture Bases. Polymers, 2020, 12, 2655.	2.0	14
49	Nanomedicine as an Emerging Technology to Foster Application of Essential Oils to Fight Cancer. Pharmaceutics, 2022, 15, 793.	1.7	14
50	Mechanism for sonocoating a polymer surface with nano-hydroxyapatite. Materials Letters, 2019, 249, 155-159.	1.3	13
51	Microwave technique applied to the hydrothermal synthesis and sintering of calcia stabilized zirconia nanoparticles. Journal of Nanoparticle Research, 2010, 12, 327-335.	0.8	12
52	Solvothermal Synthesis of Co-doped ZnO Nanopowders. Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences, 2008, 63, 725-729.	0.3	11
53	Dental Implant Healing Screws as Temporary Oral Drug Delivery Systems for Decrease of Infections in the Area of the Head and Neck. International Journal of Nanomedicine, 2022, Volume 17, 1679-1693.	3.3	11
54	Preparation of a Ceramic Matrix Composite Made of Hydroxyapatite Nanoparticles and Polylactic Acid by Consolidation of Composite Granules. Nanomaterials, 2020, 10, 1060.	1.9	10

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55	Radiative Decay of Electronic Excitations in ZrO ₂ Nanocrystals and Macroscopic Single Crystals. IEEE Transactions on Nuclear Science, 2008, 55, 1523-1526.	1.2	9
56	Novel Photocatalytic Nanocomposite Made of Polymeric Carbon Nitride and Metal Oxide Nanoparticles. Molecules, 2019, 24, 874.	1.7	9
57	The new nano-enabled phase map of ZrO ₂ -Al ₂ O ₃ . Scientific Reports, 2019, 9, 5540.	1.6	9
58	Enhanced Activity and Sustained Release of Protocatechuic Acid, a Natural Antibacterial Agent, from Hybrid Nanoformulations with Zinc Oxide Nanoparticles. International Journal of Molecular Sciences, 2021, 22, 5287.	1.8	9
59	Microstructure and Mechanical Properties of Inverse Nanocomposite Made from Polylactide and Hydroxyapatite Nanoparticles. Materials, 2022, 15, 184.	1.3	8
60	Magnetic properties of ZnFe ₂ O ₄ nanoparticles. Open Physics, 2012, 10, .	0.8	7
61	Phase stability of rare earth sesquioxides with grain size controlled in the nanoscale. Journal of the American Ceramic Society, 2019, 102, 3829-3835.	1.9	6
62	Effect of low-temperature high-pressure sintering on BiFeO ₃ density, electrical magnetic and structural properties. Phase Transitions, 2013, 86, 1104-1114.	0.6	5
63	Characteristics of titanium nano-oxide (IV) as potent polymethyl metacrylate modifier. Protetyka Stomatologiczna, 2017, 67, 4-17.	0.1	2
64	Physicochemical Properties of Dentine Subjected to Microabrasive Blasting and Its Influence on Bonding to Self-Adhesive Prosthetic Cement in Shear Bond Strength Test: An In Vitro Study. Materials, 2022, 15, 1476.	1.3	2
65	Synthesis and characterizations of YZ-BDC:Eu ³⁺ , Tb ³⁺ nanothermometers for luminescence-based temperature sensing. RSC Advances, 2022, 12, 13065-13073.	1.7	2
66	The "Solidification" of Grain Boundaries with Increasing Temperature. Materials Research Society Symposia Proceedings, 1994, 357, 337.	0.1	1
67	Criteria for Misfit Localization at Interfaces. Materials Research Society Symposia Proceedings, 1994, 357, 407.	0.1	1
68	High-pressure effect on grain boundary wetting in aluminium bicrystals. International Journal of Materials Research, 2005, 96, 1211-1212.	0.8	1
69	Revised phase stability diagram of rare earth sesquioxides. Japan Journal of Research, 0, , 1-2.	0.0	1
70	Localization Parameter for the Prediction of Interface Structures and Reactions. , 2009, , 182-190.		0
71	High-pressure effect on grain boundary wetting in aluminium bicrystals. International Journal of Materials Research, 2022, 96, 1211-1212.	0.1	0