

Robert Pazik

List of Publications by Year in descending order

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71
papers

1,790
citations

218592

26
h-index

330025

37
g-index

75
all docs

75
docs citations

75
times ranked

2175
citing authors

#	ARTICLE	IF	CITATIONS
1	The size-effect on luminescence properties of BaTiO ₃ :Eu ³⁺ nanocrystallites prepared by the sol-gel method. Journal of Alloys and Compounds, 2004, 380, 348-351.	2.8	83
2	Luminescence properties of Tb ³⁺ :Y ₃ Al ₅ O ₁₂ nanocrystallites prepared by the sol-gel method. Optical Materials, 2004, 26, 117-121.	1.7	74
3	AMPK-mediated senolytic and senostatic activity of quercetin surface functionalized Fe ₃ O ₄ nanoparticles during oxidant-induced senescence in human fibroblasts. Redox Biology, 2020, 28, 101337.	3.9	67
4	Precursor and Solvent Effects in the Nonhydrolytic Synthesis of Complex Oxide Nanoparticles for Bioimaging Applications by the Ether Elimination (Bradley) Reaction. Chemistry - A European Journal, 2009, 15, 6820-6826.	1.7	59
5	Optical behavior of Eu ³⁺ -doped BaTiO ₃ nano-crystallites prepared by sol-gel method. Optical Materials, 2003, 24, 15-22.	1.7	56
6	Synthesis and spectroscopic properties of CaTiO ₃ nanocrystals doped with Pr ³⁺ ions. Journal of Alloys and Compounds, 2008, 451, 595-599.	2.8	55
7	Facile non-hydrolytic synthesis of highly water dispersible, surfactant free nanoparticles of synthetic MFe ₂ O ₄ (M ²⁺ = Mn ²⁺ , Fe ²⁺ , Co ²⁺ , Ni ²⁺) ferrite spinel by a modified Bradley reaction. RSC Advances, 2013, 3, 12230.	1.7	46
8	Heteroleptic metal alkoxide oxoclusters as molecular models for the sol-gel synthesis of perovskite nanoparticles for bio-imaging applications. Dalton Transactions, 2008, , 3412.	1.6	45
9	False-cytotoxicity of ions-adsorbing hydroxyapatite - Corrected method of cytotoxicity evaluation for ceramics of high specific surface area. Materials Science and Engineering C, 2016, 65, 70-79.	3.8	45
10	Yttrium-Doped Iron Oxide Nanoparticles for Magnetic Hyperthermia Applications. Journal of Physical Chemistry C, 2020, 124, 6871-6883.	1.5	44
11	Fabrication and luminescence studies of Ce:Y ₃ Al ₅ O ₁₂ transparent nanoceramic. Optical Materials, 2008, 30, 714-718.	1.7	40
12	Synthesis, Structure, and Optical Properties of LiEu(PO ₃) ₄ Nanoparticles. Inorganic Chemistry, 2011, 50, 1321-1330.	1.9	40
13	Upconversion emission in CaTiO ₃ :Er ³⁺ nanocrystals. Journal of Luminescence, 2008, 128, 797-799.	1.5	39
14	A new approach in the synthesis of La ^x Gd _x FeO ₃ perovskite nanoparticles - structural and magnetic characterization. Dalton Transactions, 2015, 44, 20067-20074.	1.6	39
15	Effect of lithium substitution on the charge compensation, structural and luminescence properties of nanocrystalline Ca ₁₀ (PO ₄) ₆ F ₂ activated with Eu ³⁺ ions. CrystEngComm, 2016, 18, 3447-3455.	1.3	39
16	Luminescence properties and determination of optimal RE ³⁺ (Sm ³⁺ , Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 14 lattice obtained by combustion synthesis. New Journal of Chemistry, 2014, 38, 5058-5068.	1.4	38
17	Luminescence studies of Cr ³⁺ doped MgAl ₂ O ₄ nanocrystalline powders. Chemical Physics, 2009, 358, 52-56.	0.9	37
18	Visualization of custom-tailored iron oxide nanoparticles chemistry, uptake, and toxicity. Nanoscale, 2012, 4, 7383.	2.8	34

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19	Crystal Structure and Morphology Evolution in the LaXO ₃ , X = Al, Ga, In Nano-Oxide Series. Consequences for the Synthesis of Luminescent Phosphors. <i>Inorganic Chemistry</i> , 2011, 50, 2966-2974.	1.9	33
20	Structural and luminescence properties of Eu ³⁺ doped Ba _x Sr _{1-x} TiO ₃ (BST) nanocrystalline powders prepared by different methods. <i>Optical Materials</i> , 2006, 28, 1284-1288.	1.7	30
21	Surface Functionalization of the Metal Oxide Nanoparticles with Biologically Active Molecules Containing Phosphonate Moieties. Case Study of BaTiO ₃ . <i>Journal of Physical Chemistry C</i> , 2011, 115, 9850-9860.	1.5	30
22	Photoluminescence investigations of Eu ³⁺ doped BaTiO ₃ nanopowders fabricated using heterometallic tetranuclear alkoxide complexes. <i>Journal of Alloys and Compounds</i> , 2008, 451, 557-562.	2.8	29
23	Luminescence properties of Cr ³⁺ :Y ₃ Al ₅ O ₁₂ nanocrystals. <i>Journal of Luminescence</i> , 2009, 129, 548-553.	1.5	29
24	Spectroscopic properties of Nd ³⁺ ions in nano-perovskite CaTiO ₃ . <i>Journal of Solid State Chemistry</i> , 2011, 184, 2713-2718.	1.4	29
25	Simple and Efficient Synthesis of a Nd:LaAlO ₃ NIR Nanophosphor from Rare Earth Alkoxo-Monoaluminates Ln ₂ Al ₂ (O ⁺ Pr) ₁₂ (PrOH) ₂ Single Source Precursors by Bradley Reaction. <i>Inorganic Chemistry</i> , 2010, 49, 2684-2691.	1.9	28
26	Lanthanum Molybdate Nanoparticles from the Bradley Reaction: Factors Influencing Their Composition, Structure, and Functional Characteristics as Potential Matrixes for Luminescent Phosphors. <i>Inorganic Chemistry</i> , 2014, 53, 943-951.	1.9	27
27	One step urea assisted synthesis of polycrystalline Eu ³⁺ doped KYP ₂ O ₇ luminescence and emission thermal quenching properties. <i>New Journal of Chemistry</i> , 2014, 38, 1129.	1.4	27
28	Weak Crystal Field in Yttrium Gallium Garnet (YGG) Submicrocrystals Doped with Cr ³⁺ . <i>Crystal Growth and Design</i> , 2012, 12, 4752-4757.	1.4	25
29	An up-converting HAP@ ¹² -TCP nanocomposite activated with Er ³⁺ /Yb ³⁺ ion pairs for bio-related applications. <i>RSC Advances</i> , 2015, 5, 27610-27622.	1.7	25
30	Luminescence properties of BaTiO ₃ :Eu ³⁺ obtained via microwave stimulated hydrothermal method. <i>Materials Research Bulletin</i> , 2009, 44, 1328-1333.	2.7	24
31	Microwave driven hydrothermal synthesis of Ba _{1-x} Sr _x TiO ₃ nanoparticles. <i>Materials Research Bulletin</i> , 2007, 42, 1188-1194.	2.7	23
32	Thermal quenching mechanisms of the Eu ³⁺ luminescence in Ca ₉ Al(PO ₄) ₇ obtained by citric route. <i>Materials Research Bulletin</i> , 2013, 48, 337-342.	2.7	23
33	Optical properties of Ce ³⁺ doped ABO ₃ perovskites (A=La, Gd, Y and B=Al, Ga, Sc). <i>Journal of Luminescence</i> , 2013, 133, 35-38.	1.5	23
34	Second harmonic generation and Yb ³⁺ cooperative emission used as structural probes in size-driven cubic-tetragonal phase transition in BaTiO ₃ sol-gel nanocrystals. <i>Journal of Luminescence</i> , 2006, 119-120, 383-387.	1.5	22
35	Europium-doped silica-titania thin films obtained by the sol-gel method. <i>Optical Materials</i> , 2007, 29, 1103-1106.	1.7	22
36	Luminescence properties of Eu ³⁺ :K ₂ Gd(WO ₄) ₂ nanocrystallites. <i>Materials Chemistry and Physics</i> , 2009, 115, 536-540.	2.0	22

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37	Synthesis, structure and magnetic properties of BaTiO ₃ nanoceramics. Chemical Physics Letters, 2008, 452, 144-147.	1.2	21
38	Structural and Spectroscopic Characterization of Nd ³⁺ -Doped YVO ₄ Yttrium Orthovanadate Nanocrystallites. Crystal Growth and Design, 2014, 14, 5512-5520.	1.4	21
39	Preparation and conductivity measurement of Eu doped BaTiO ₃ nanoceramic. Journal of Alloys and Compounds, 2006, 408-412, 637-640.	2.8	20
40	Influence of crystallite size on the thermal conductivity in BaTiO ₃ nanoceramics. Applied Physics Letters, 2007, 90, 114104.	1.5	20
41	Temperature induced emission quenching processes in Eu ³⁺ -doped La ₂ CaB ₁₀ O ₁₉ . Journal of Materials Chemistry, 2012, 22, 22651.	6.7	20
42	Multimodal polymer encapsulated CdSe/Fe ₃ O ₄ nanoplatform with improved biocompatibility for two-photon and temperature stimulated bioapplications. Materials Science and Engineering C, 2021, 127, 112224.	3.8	20
43	Structure Evolution and Up-Conversion Studies of ZnX ₂ O ₄ :Er ³⁺ /Yb ³⁺ (X = Al ³⁺), Tj ETQq1 1 0.784314 rgBT /Overlock 19 2014, 1090-1101.	1.0	19
44	Multifunctional nanocrystalline calcium phosphates loaded with Tetracycline antibiotic combined with human adipose derived mesenchymal stromal stem cells (hASCs). Materials Science and Engineering C, 2016, 69, 17-26.	3.8	19
45	Upconversion luminescence properties of nanocrystallite MgAl ₂ O ₄ spinel doped with Ho ³⁺ and Yb ³⁺ ions. Optical Materials, 2012, 34, 2041-2044.	1.7	18
46	Preferential site substitution of Eu ³⁺ ions in Ca ₁₀ (PO ₄) ₆ Cl ₂ nanoparticles obtained using a microwave stimulated wet chemistry technique. CrystEngComm, 2014, 16, 5308-5318.	1.3	18
47	Structural and spectroscopic features of Ca ₉ M(PO ₄) ₇ (M=Al ³⁺ , Lu ³⁺) whitlockites doped with Pr ³⁺ ions. Journal of Alloys and Compounds, 2016, 672, 45-51.	2.8	18
48	Efficient up-conversion emission and energy transfer in LaAlO ₃ doped with Er ³⁺ , Ho ³⁺ , and Yb ³⁺ ions. Optical Materials, 2012, 34, 1990-1993.	1.7	17
49	Preparation and optical properties of hybrid coatings based on epoxy-modified silane and rhodamine B. Journal of Luminescence, 2006, 119-120, 148-152.	1.5	16
50	Synthesis, structure and luminescence properties of KEu _{0.01} Gd _{0.19} Yb _{0.8} (WO ₄) ₂ powder. Journal of Rare Earths, 2009, 27, 564-568.	2.5	16
51	Synthesis, Structural Features, Cytotoxicity, and Magnetic Properties of Colloidal Ferrite Spinel Co _{1-x} Ni _x Fe ₂ O ₄ (0.1 ≤ x ≤ 0.9) Nanoparticles. European Journal of Inorganic Chemistry, 2015, 2015, 4750-4760.		
52	Multifunctional lanthanide and silver ion co-doped nano-chlorapatites with combined spectroscopic and antimicrobial properties. Dalton Transactions, 2015, 44, 6918-6925.	1.6	16
53	Non-contact Mn ²⁺ Ni ^x Fe ₂ O ₄ ferrite nano-heaters for biological applications – heat energy generated by NIR irradiation. RSC Advances, 2017, 7, 18162-18171.	1.7	16
54	New optical tools used for characterization of phase transitions in nonlinear nano-crystals. Example of Yb ³⁺ -doped BaTiO ₃ . Journal of Physics Condensed Matter, 2007, 19, 096204.	0.7	11

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55	Luminescence structure relationships in MYP2O7:Eu ³⁺ (M=K, Rb, Cs). Journal of Luminescence, 2016, 175, 249-254.	1.5	11
56	Polyrhodanine cobalt ferrite (PRHD@CoFe ₂ O ₄) hybrid nanomaterials - Synthesis, structural, magnetic, cytotoxic and antibacterial properties. Materials Chemistry and Physics, 2018, 217, 553-561.	2.0	11
57	Cytotoxic Effects of Co _{1-x} Mn _x Fe ₂ O ₄ Ferrite Nanoparticles Synthesized under Non-Hydrolytic Conditions (Bradley's Reaction) In Vitro. European Journal of Inorganic Chemistry, 2016, 2016, 5315-5323.	1.0	10
58	The Effect of Co _{0.2} Mn _{0.8} Fe ₂ O ₄ Ferrite Nanoparticles on the C2 Canine Mastocytoma Cell Line and Adipose-Derived Mesenchymal Stromal Stem Cells (ASCs) Cultured Under a Static Magnetic Field: Possible Implications in the Treatment of Dog Mastocytoma. Cellular and Molecular Bioengineering, 2017, 10, 209-222.	1.0	10
59	Functional up-converting SrTiO ₃ :Er ³⁺ /Yb ³⁺ nanoparticles: structural features, particle size, colour tuning and in vitro RBC cytotoxicity. Dalton Transactions, 2015, 44, 10267-10280.	1.6	9
60	Energy Conversion and Biocompatibility of Surface Functionalized Magnetite Nanoparticles with Phosphonic Moieties. Journal of Physical Chemistry B, 2020, 124, 4931-4948.	1.2	9
61	Rapid hot-injection as a tool for control of magnetic nanoparticle size and morphology. RSC Advances, 2021, 11, 20708-20719.	1.7	9
62	Multifunctional Properties of Binary Polyrhodanine Manganese Ferrite Nanohybrids From the Energy Converters to Biological Activity. Polymers, 2020, 12, 2934.	2.0	8
63	Efficient NIR energy conversion of plasmonic silver nanostructures fabricated with the laser-assisted synthetic approach for endodontic applications. RSC Advances, 2020, 10, 38861-38872.	1.7	8
64	Efficient non-contact heat generation on flexible, ternary hydroxyapatite/curdlan/nanomagnetite hybrids for temperature controlled processes. Materials Science and Engineering C, 2021, 118, 111360.	3.8	6
65	Up-conversion emission and in vitro cytotoxicity characterization of blue emitting, biocompatible SrTiO ₃ nanoparticles activated with Tm ³⁺ and Yb ³⁺ ions. RSC Advances, 2016, 6, 39469-39479.	1.7	5
66	Efficient synthesis of PMMA@Co _{0.5} Ni _{0.5} Fe ₂ O ₄ organic-inorganic hybrids containing hyamine 1622 Physicochemical properties, cytotoxic assessment and antimicrobial activity. Materials Science and Engineering C, 2018, 90, 248-256.	3.8	5
67	Co _{0.5} Mn _{0.5} Fe ₂ O ₄ @PMMA Nanoparticles Promotes Preosteoblast Differentiation through Activation of OPN-BGLAP2-DMP1 Axis and Modulates Osteoclastogenesis under Magnetic Field Conditions. Materials, 2021, 14, 5010.	1.3	5
68	Micrometric spatial control of rare earth ion emission in LiNbO ₃ : A two-dimensional multicolor array. Applied Physics Letters, 2009, 95, 051103.	1.5	4
69	Contactless and synergic heat generation using AMF and laser radiation within 1st and 2nd optical biological window on PMMA covered cobalt-manganese ferrite hybrid particles. Journal of Alloys and Compounds, 2022, 898, 162840.	2.8	3
70	Impact of Polyrhodanine Manganese Ferrite Binary Nanohybrids (PRHD@MnFe ₂ O ₄) on Osteoblasts and Osteoclasts Activities A Key Factor in Osteoporosis Treatment. Materials, 2022, 15, 3990.	1.3	2
71	Structure and Luminescence Properties of Nanofluorapatite Activated with Eu ³⁺ Ions Synthesized by Hydrothermal Method. NATO Science for Peace and Security Series B: Physics and Biophysics, 2017, , 567-569.	0.2	0