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	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
2	Impact of Polyrhodanine Manganese Ferrite Binary Nanohybrids (PRHD@MnFe2O4) on Osteoblasts and Osteoclasts Activitiesâ€"A Key Factor in Osteoporosis Treatment. Materials, 2022, 15, 3990.	1.3	2
3	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
4	Multimodal polymer encapsulated CdSe/Fe3O4 nanoplatform with improved biocompatibility for two-photon and temperature stimulated bioapplications. Materials Science and Engineering C, 2021, 127, 112224.	3.8	20
5	Co0.5Mn0.5Fe2O4@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
6	Rapid hot-injection as a tool for control of magnetic nanoparticle size and morphology. RSC Advances, 2021, 11, 20708-20719.	1.7	9
7	AMPK-mediated senolytic and senostatic activity of quercetin surface functionalized Fe3O4 nanoparticles during oxidant-induced senescence in human fibroblasts. Redox Biology, 2020, 28, 101337.	3.9	67
8	Multifunctional Properties of Binary Polyrhodanine Manganese Ferrite Nanohybridsâ€"From the Energy Converters to Biological Activity. Polymers, 2020, 12, 2934.	2.0	8
9	Energy Conversion and Biocompatibility of Surface Functionalized Magnetite Nanoparticles with Phosphonic Moieties. Journal of Physical Chemistry B, 2020, 124, 4931-4948.	1.2	9
10	Yttrium-Doped Iron Oxide Nanoparticles for Magnetic Hyperthermia Applications. Journal of Physical Chemistry C, 2020, 124, 6871-6883.	1.5	44
11	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
12	Efficient synthesis of PMMA@Co0.5Ni0.5Fe2O4 organic-inorganic hybrids containing hyamine 1622 â€“ Physicochemical properties, cytotoxic assessment and antimicrobial activity. Materials Science and Engineering C, 2018, 90, 248-256.	3.8	5
13	Polyrhodanine cobalt ferrite (PRHD@CoFe2O4) hybrid nanomaterials - Synthesis, structural, magnetic, cytotoxic and antibacterial properties. Materials Chemistry and Physics, 2018, 217, 553-561.	2.0	11
14	The Effect of Co0.2Mn0.8Fe2O4 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
15	Non-contact Mn_{1â^'x}Ni_xFe₂O₄ ferrite nano-heaters for biological applications â€“ heat energy generated by NIR irradiation. RSC Advances, 2017, 7, 18162-18171.	1.7	16
16	Structure and Luminescence Properties of Nanofluorapatite Activated with Eu3+ Ions Synthesized by Hydrothermal Method. NATO Science for Peace and Security Series B: Physics and Biophysics, 2017, , 567-569.	0.2	0
17	Effect of lithium substitution on the charge compensation, structural and luminescence properties of nanocrystalline Ca₁₀(PO₄)₆F₂activated with Eu³⁺ions. CrystEngComm, 2016, 18, 3447-3455.	1.3	39
18	Up-conversion emission and in vitro cytotoxicity characterization of blue emitting, biocompatible SrTiO₃ nanoparticles activated with Tm³⁺ and Yb³⁺ ions. RSC Advances, 2016, 6, 39469-39479.	1.7	5

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19	â€œFalseâ€•cytotoxicity of ions-adsorbing hydroxyapatite â€” Corrected method of cytotoxicity evaluation for ceramics of high specific surface area. Materials Science and Engineering C, 2016, 65, 70-79.	3.8	45
20	Cytotoxic Effects of Co_{1â€“x}Mn_xFe₂O₄ Ferrite Nanoparticles Synthesized under Nonâ€Hydrolytic Conditions (Bradley's Reaction) â€“ In Vitro. European Journal of Inorganic Chemistry, 2016, 2016, 5315-5323.	1.0	10
21	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
22	Luminescence â€“ structure relationships in MYP2O7:Eu3+ (M=K, Rb, Cs). Journal of Luminescence, 2016, 175, 249-254.	1.5	11
23	Structural and spectroscopic features of Ca9M(PO4)7 (MÂ=ÂAl3+, Lu3+) whitlockites doped with Pr3+ ions. Journal of Alloys and Compounds, 2016, 672, 45-51.	2.8	18
24	Synthesis, Structural Features, Cytotoxicity, and Magnetic Properties of Colloidal Ferrite Spinel Co_{1â€“x}Ni_xFe₂O₄ (0.1â€‰â€‰â€‰xâ€‰â€‰â€‰0.9) Nanoparticles. European Journal of Inorganic Chemistry, 2015, 2015, 4750-4760.	1.6	16
25	Functional up-converting SrTiO₃:Er³⁺/Yb³⁺ nanoparticles: structural features, particle size, colour tuning and in vitro RBC cytotoxicity. Dalton Transactions, 2015, 44, 10267-10280.	1.6	9
26	Multifunctional lanthanide and silver ion co-doped nano-chlorapatites with combined spectroscopic and antimicrobial properties. Dalton Transactions, 2015, 44, 6918-6925.	1.6	16
27	A new approach in the synthesis of La_{1â^'x}Gd_xFeO₃ perovskite nanoparticles â€“ structural and magnetic characterization. Dalton Transactions, 2015, 44, 20067-20074.	1.6	39
28	An up-converting HAP@Î²-TCP nanocomposite activated with Er³⁺/Yb³⁺ ion pairs for bio-related applications. RSC Advances, 2015, 5, 27610-27622.	1.7	25
29	Structure Evolution and Upâ€Conversion Studies of ZnX₂O₄:Er³⁺/Yb³⁺ (X = Al³⁺,) Tj ETQq1 1 0.784314 rgBT /Overlock 1 2014, 1090-1101.	1.0	19
30	Lanthanum Molybdate Nanoparticles from the Bradley Reaction: Factors Influencing Their Composition, Structure, and Functional Characteristics as Potential Matrixes for Luminescent Phosphors. Inorganic Chemistry, 2014, 53, 943-951.	1.9	27
31	Structural and Spectroscopic Characterization of Nd³⁺-Doped YVO₄ Yttrium Orthovanadate Nanocrystallites. Crystal Growth and Design, 2014, 14, 5512-5520.	1.4	21
32	One step urea assisted synthesis of polycrystalline Eu3+ doped KYP2O7 â€“ luminescence and emission thermal quenching properties. New Journal of Chemistry, 2014, 38, 1129.	1.4	27
33	Luminescence properties and determination of optimal RE³⁺(Sm³⁺,) Tj ETQq1 1 0.784314 rgBT /Overlock 10 lattice obtained by combustion synthesis. New Journal of Chemistry, 2014, 38, 5058-5068.	1.4	38
34	Preferential site substitution of Eu³⁺ ions in Ca₁₀(PO₄)₆Cl₂ nanoparticles obtained using a microwave stimulated wet chemistry technique. CrystEngComm, 2014, 16, 5308-5318.	1.3	18
35	Facile non-hydrolytic synthesis of highly water dispersible, surfactant free nanoparticles of synthetic MFe2O4 (Mâ€“Mn2+, Fe2+, Co2+, Ni2+) ferrite spinel by a modified Bradley reaction. RSC Advances, 2013, 3, 12230.	1.7	46
36	Thermal quenching mechanisms of the Eu3+ luminescence in Ca9Al(PO4)7 obtained by citric route. Materials Research Bulletin, 2013, 48, 337-342.	2.7	23

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37	Optical properties of Ce3+ doped ABO3 perovskites (A=La, Gd, Y and B=Al, Ga, Sc). Journal of Luminescence, 2013, 133, 35-38.	1.5	23
38	Temperature induced emission quenching processes in Eu3+-doped La2CaB10O19. Journal of Materials Chemistry, 2012, 22, 22651.	6.7	20
39	Efficient up-conversion emission and energy transfer in LaAlO3 doped with Er3+, Ho3+, and Yb3+ ions. Optical Materials, 2012, 34, 1990-1993.	1.7	17
40	Upconversion luminescence properties of nanocrystallite MgAl2O4 spinel doped with Ho3+ and Yb3+ ions. Optical Materials, 2012, 34, 2041-2044.	1.7	18
41	Visualization of custom-tailored iron oxide nanoparticles chemistry, uptake, and toxicity. Nanoscale, 2012, 4, 7383.	2.8	34
42	Weak Crystal Field in Yttrium Gallium Garnet (YGG) Submicrocrystals Doped with Cr³⁺. Crystal Growth and Design, 2012, 12, 4752-4757.	1.4	25
43	Synthesis, Structure, and Optical Properties of LiEu(PO₃)₄Nanoparticles. Inorganic Chemistry, 2011, 50, 1321-1330.	1.9	40
44	Surface Functionalization of the Metal Oxide Nanoparticles with Biologically Active Molecules Containing Phosphonate Moieties. Case Study of BaTiO₃. Journal of Physical Chemistry C, 2011, 115, 9850-9860.	1.5	30
45	Crystal Structure and Morphology Evolution in the LaXO₃, X = Al, Ga, In Nano-Oxide Series. Consequences for the Synthesis of Luminescent Phosphors. Inorganic Chemistry, 2011, 50, 2966-2974.	1.9	33
46	Spectroscopic properties of Nd3+ ions in nano-perovskite CaTiO3. Journal of Solid State Chemistry, 2011, 184, 2713-2718.	1.4	29
47	Simple and Efficient Synthesis of a Nd:LaAlO₃ NIR Nanophosphor from Rare Earth Alkoxo-Monoaluminates Ln₂Al₂(OⁱPr)₁₂(ⁱPrOH)₂ Single Source Precursors by Bradley Reaction. Inorganic Chemistry, 2010, 49, 2684-2691.	1.9	28
48	Micrometric spatial control of rare earth ion emission in LiNbO3: A two-dimensional multicolor array. Applied Physics Letters, 2009, 95, 051103.	1.5	4
49	Luminescence properties of Eu3+:KGd(WO4)2 nanocrystallites. Materials Chemistry and Physics, 2009, 115, 536-540.	2.0	22
50	Luminescence properties of BaTiO3:Eu3+ obtained via microwave stimulated hydrothermal method. Materials Research Bulletin, 2009, 44, 1328-1333.	2.7	24
51	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
52	Synthesis, structure and luminescence properties of KEu0.01Gd0.19Yb0.8(WO4)2 powder. Journal of Rare Earths, 2009, 27, 564-568.	2.5	16
53	Luminescence properties of Cr3+:Y3Al5O12 nanocrystals. Journal of Luminescence, 2009, 129, 548-553.	1.5	29
54	Luminescence studies of Cr3+ doped MgAl2O4 nanocrystalline powders. Chemical Physics, 2009, 358, 52-56.	0.9	37

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55	Upconversion emission in CaTiO3:Er3+ nanocrystals. Journal of Luminescence, 2008, 128, 797-799.	1.5	39
56	Synthesis, structure and magnetic properties of BaTiO3 nanoceramics. Chemical Physics Letters, 2008, 452, 144-147.	1.2	21
57	Fabrication and luminescence studies of Ce:Y3Al5O12 transparent nanoceramic. Optical Materials, 2008, 30, 714-718.	1.7	40
58	Heteroleptic metal alkoxide â€œoxoclustersâ€•as molecular models for the solâ€“gel synthesis of perovskite nanoparticles for bio-imaging applications. Dalton Transactions, 2008, , 3412.	1.6	45
59	Synthesis and spectroscopic properties of CaTiO3 nanocrystals doped with Pr3+ ions. Journal of Alloys and Compounds, 2008, 451, 595-599.	2.8	55
60	Photoluminescence investigations of Eu3+ doped BaTiO3 nanopowders fabricated using heterometallic tetranuclear alkoxide complexes. Journal of Alloys and Compounds, 2008, 451, 557-562.	2.8	29
61	Influence of crystallite size on the thermal conductivity in BaTiO3 nanoceramics. Applied Physics Letters, 2007, 90, 114104.	1.5	20
62	New optical tools used for characterization of phase transitions in nonlinear nano-crystals. Example of Yb3+-doped BaTiO3. Journal of Physics Condensed Matter, 2007, 19, 096204.	0.7	11
63	Europium-doped silicaâ€“titania thin films obtained by the solâ€“gel method. Optical Materials, 2007, 29, 1103-1106.	1.7	22
64	Microwave driven hydrothermal synthesis of Ba1â^'xSrxTiO3 nanoparticles. Materials Research Bulletin, 2007, 42, 1188-1194.	2.7	23
65	Preparation and conductivity measurement of Eu doped BaTiO3 nanoceramic. Journal of Alloys and Compounds, 2006, 408-412, 637-640.	2.8	20
66	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
67	Second harmonic generation and Yb3+ cooperative emission used as structural probes in size-driven cubicâ€“tetragonal phase transition in BaTiO3 solâ€“gel nanocrystals. Journal of Luminescence, 2006, 119-120, 383-387.	1.5	22
68	Structural and luminescence properties of Eu3+ doped BaxSr1â^'xTiO3 (BST) nanocrystalline powders prepared by different methods. Optical Materials, 2006, 28, 1284-1288.	1.7	30
69	Luminescence properties of Tb3+:Y3Al5O12 nanocrystallites prepared by the solâ€“gel method. Optical Materials, 2004, 26, 117-121.	1.7	74
70	The size-effect on luminescence properties of BaTiO3:Eu3+ nanocrystallites prepared by the solâ€“gel method. Journal of Alloys and Compounds, 2004, 380, 348-351.	2.8	83
71	Optical behavior of Eu3+-doped BaTiO3 nano-crystallites prepared by solâ€“gel method. Optical Materials, 2003, 24, 15-22.	1.7	56