PaweÅ, GÅ‚uchowski

List of Publications by Year
in descending order

84 papers	1,449 citations	304368 22 h-index	395343 33 g-index
87 all docs	87 docs citations	87 times ranked	1579 citing authors

#	Article	IF	Citations
1	Laser-induced white-light emission from graphene ceramicsâ€“opening a band gap in graphene. Light: Science and Applications, 2015, 4, e237-e237.	7.7	122
2	Laser induced white lighting of graphene foam. Scientific Reports, 2017, 7, 41281.	1.6	70
3	Infrared laser stimulated broadband white emission of Yb3+:YAG nanoceramics. Optical Materials, 2013, 35, 2013-2017.	1.7	53
4	IR and Raman spectroscopy study of YAG nanoceramics. Chemical Physics Letters, 2010, 494, 279-283.	1.2	49
5	Crystalline LiPON as a Bulk-Type Solid Electrolyte. ACS Energy Letters, 2021, 6, 445-450.	8.8	43
6	Fabrication and luminescence studies of Ce:Y3Al5O12 transparent nanoceramic. Optical Materials, 2008, 30, 714-718.	1.7	40
7	Persistent luminescence warm-light LEDs based on Ti-doped RE₂O₂S materials prepared by rapid and energy-saving microwave-assisted synthesis. Journal of Materials Chemistry C, 2018, 6, 8897-8905.	2.7	39
8	Luminescence studies of Cr3+ doped MgAl2O4 nanocrystalline powders. Chemical Physics, 2009, 358, 52-56.	0.9	37
9	Luminescence and excitation spectra of Cr3+:MgAl2O4 nanoceramics. Materials Chemistry and Physics, 2013, 140, 222-227.	2.0	36
10	Optically stimulated persistent luminescence of europium-doped LaAlO₃ nanocrystals. Physical Chemistry Chemical Physics, 2015, 17, 17246-17252.	1.3	32
11	Mechanisms of Tenebrescence and Persistent Luminescence in Synthetic Hackmanite Na₈Al₆Si₆O₂₄(Cl,S)₂. ACS Applied Materials & Interfaces, 2016, 8, 11592-11602.	4.0	32
12	Nanoscale ferroelectricity in pseudo-cubic sol-gel derived barium titanate - bismuth ferrite (BaTiO3â€“) Tj ETQq0 0 0 rgBT /Overlock 10 T	2.8	32
13	The influence of the specific surface of grains on the luminescence properties of Nd3+-doped Y3Al5O12 nanopowders. Applied Physics B: Lasers and Optics, 2008, 91, 89-93.	1.1	31
14	Luminescence properties of Cr3+:Y3Al5O12 nanocrystals. Journal of Luminescence, 2009, 129, 548-553.	1.5	29
15	Enhancement of luminescence properties of Eu3+:YVO4 in polymeric nanocomposites upon UV excitation. Journal of Luminescence, 2011, 131, 473-476.	1.5	29
16	Comparative studies on structural and luminescent properties of Eu3+:MgAl2O4 and Eu3+/Na+:MgAl2O4 nanopowders and nanoceramics. Optical Materials, 2012, 35, 130-135.	1.7	29
17	Processing and characterization of phosphate glasses containing CaAl2O4:Eu2+,Nd3+ and SrAl2O4:Eu2+,Dy3+ microparticles. Journal of the European Ceramic Society, 2015, 35, 3863-3871.	2.8	28
18	Yb³⁺ Ions Distribution in YAG Nanoceramics Analyzed by Both Optical and TEM-EDX Techniques. Journal of Physical Chemistry C, 2014, 118, 15474-15486.	1.5	27

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19	New alternative route for the preparation of phosphate glasses with persistent luminescence properties. Journal of the European Ceramic Society, 2015, 35, 1255-1261.	2.8	25
20	Visible and near-infrared up-conversion luminescence of KGd(WO4)2 micro-crystals doped with Er3+, Tm3+, Ho3+ and Yb3+ ions. Journal of Alloys and Compounds, 2016, 684, 271-281.	2.8	23
21	Bifunctional Bi₂ZnOB₂O₆:Nd³⁺ Single Crystal for Near Infrared Lasers: Luminescence and Î¼-Raman Investigations. Crystal Growth and Design, 2017, 17, 3656-3664.	1.4	23
22	Up-conversion emission in KGd(WO4)2 single crystals triply-doped with Er3+/Yb3+/Tm3+, Tb3+/Yb3+/Tm3+ and Pr3+/Yb3+/Tm3+ ions. Optical Materials, 2011, 33, 1595-1601.	1.7	22
23	Spectroscopic properties of Nd3+ in MgAl2O4 spinel nanocrystals. Journal of Alloys and Compounds, 2012, 525, 39-43.	2.8	22
24	Persistent Luminescence of Tenebrescent Na8Al6Si6O24(Cl,S)2: Multifunctional Optical Markers. Inorganic Chemistry, 2015, 54, 7717-7724.	1.9	22
25	Influence of Pressureâ€Induced Transition from Nanocrystals to Nanoceramic Form on Optical Properties of Ceâ€Doped Y₃Al₅O₁₂. Journal of the American Ceramic Society, 2011, 94, 2135-2140.	1.9	21
26	Spectroscopic properties of Bi2ZnOB2O6 single crystals doped with Pr3+ ions: Absorption and luminescence investigations. Optical Materials, 2015, 47, 428-434.	1.7	21
27	The concentration dependence of luminescence of Nd:Y3Al5O12 nanoceramics. Journal of Alloys and Compounds, 2008, 451, 549-552.	2.8	19
28	Luminescence properties of rare earth ions in fluorite, apatite and scheelite minerals. Journal of Alloys and Compounds, 2008, 451, 290-292.	2.8	18
29	Spectroscopic properties of Yb3+-doped Y3Al5O12 nano-ceramics obtained under different sintering pressures. Radiation Measurements, 2010, 45, 304-306.	0.7	18
30	Spectroscopic properties of KGd(WO4)2 single crystals doped with Er3+, Ho3+, Tm3+ and Yb3+ ions: Luminescence and micro-Raman investigations. Journal of Alloys and Compounds, 2013, 577, 687-692.	2.8	18
31	Size Effect in Novel Red Efficient Garnet Nanophosphor. Journal of Physical Chemistry C, 2017, 121, 25561-25567.	1.5	18
32	Laser-driven proliferation of sp2-sp3 changes during anti-Stokes white light emission of Î¼-diamonds. Carbon, 2019, 146, 438-446.	5.4	18
33	The fâ€“f Emission of Pr³⁺ Ion as an Optical Probe for the Structural Properties of YAG Nanoceramics. Journal of Nanoscience and Nanotechnology, 2009, 9, 6315-6319.	0.9	17
34	Synthesis, structural and optical characterization of Eu:KYb(WO4)2 nanocrystals: A promising red phosphor. Optical Materials, 2010, 32, 1493-1500.	1.7	17
35	Assessment of SnO2-nanocrystal-based luminescent glass-ceramic waveguides for integrated photonics. Ceramics International, 2021, 47, 5534-5541.	2.3	17
36	Synthesis, structure and optical properties of two novel luminescent polar dysprosium metalâ€“organic frameworks: [(CH₃)₂NH₂][Dy(HCOO)₄] and [N₂H₅][Dy(HCOO)₄]. Journal of Materials Chemistry C, 2016, 4, 1019-1028.	2.7	16

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37	A Facile Synthesis and Characterization of Highly Crystalline Submicro-Sized BiFeO3. Materials, 2020, 13, 3035.	1.3	16
38	Laser induced emission spectra of gallium nitride nanoceramics. Ceramics International, 2020, 46, 29060-29066.	2.3	16
39	Spectroscopic characterization of LaAlO3 crystal doped with Tm3+ ions. Optical Materials, 2008, 30, 680-683.	1.7	15
40	Scheelite-Type Wide-Bandgap ABO₄ Compounds (A = Ca, Sr, and Ba; B = Mo and W) as Potential Photocatalysts for Water Treatment. Journal of Physical Chemistry C, 2021, 125, 25497-25513.	1.5	15
41	A Promising Lu_{2â^'x}Ho_xO₃ Laser Nanoceramic:Synthesis and Characterization. Journal of the American Ceramic Society, 2010, 93, 3764-3772.	1.9	14
42	Key factors tuning upconversion and near infrared luminescence in nanosized Lu2O3:Er3+,Yb3+. Journal of Alloys and Compounds, 2019, 799, 481-494.	2.8	14
43	Up-conversion emission in triply-doped Ho3+/Yb3+/Tm3+ KGd(WO4)2 single crystals. Optics Communications, 2011, 284, 2895-2899.	1.0	13
44	Preparation and physical characteristics of graphene ceramics. Scientific Reports, 2020, 10, 11121.	1.6	13
45	Effect of the glass melting condition on the processing of phosphate-based glassâ€“ceramics with persistent luminescence properties. Optical Materials, 2016, 52, 56-61.	1.7	12
46	Scintillation properties of Gd3Al2Ga3O12:Ce (GAGG:Ce): a comparison between monocrystalline and nanoceramic samples. Optical Materials, 2018, 79, 227-231.	1.7	12
47	The time-resolved luminescence characteristics of Ce and Ce/Pr doped YAG ceramics obtained by high pressure technique. Optical Materials, 2012, 34, 986-989.	1.7	11
48	Photoluminescence properties of Pr3+ doped Bi2ZnOB2O6 microcrystals and PMMA-based composites. Optical Materials, 2016, 62, 72-79.	1.7	11
49	Near-infrared luminescence of Bi2ZnOB2O6:Nd3+/PMMA composite. Optical Materials, 2018, 75, 13-18.	1.7	11
50	Studies of upconversion emission of Yb3+, Er3+:Lu2O3 nanoceramics. Optical Materials, 2013, 35, 731-734.	1.7	10
51	Enhanced 1.5 Î¼m emission of Er³⁺-doped multifunctional Bi₂ZnOB₂O₆ microcrystals. Dalton Transactions, 2019, 48, 6283-6290.	1.6	10
52	Pilot-Scale Studies of WO3/S-Doped g-C3N4 Heterojunction toward Photocatalytic NOx Removal. Materials, 2022, 15, 633.	1.3	10
53	Persistent Photoconductance in Graphene Ceramics. Physics Procedia, 2015, 76, 155-159.	1.2	9
54	Design of the persistent luminescence colour of a novel Gd_{3â^'x}Tb_xGa₃Al₂O₁₂ phosphor: synthesis methods, spectroscopic properties and mechanism. Dalton Transactions, 2021, 50, 4830-4839.	1.6	9

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55	Nd3+-doped Bi2ZnOB2O6 phosphors for NIR emission. Journal of Luminescence, 2018, 203, 663-669.	1.5	8
56	Efficient Yb3+ sensitized Er3+ emission of Bi2ZnOB2O6:Yb3+/Er3+ single crystal. Journal of Alloys and Compounds, 2021, 873, 159772.	2.8	8
57	Impact of the Synthesis Method on the Conventional and Persistent Luminescence in Gd_{3â€“x}Ce_xGa₃Al₂O₁₂. Inorganic Chemistry, 2021, 60, 18777-18788.	1.9	8
58	Insights into the Relationship between Crystallite Size, Sintering Pressure, Temperature Sensitivity, and Persistent Luminescence Color of Gd_{2.97}Pr_{0.03}Ga₃Al₂O₁₂ Powders and Ceramics. Journal of Physical Chemistry C, 2022, 126, 7127-7142.	1.5	8
59	Transport properties, specific heat and thermal conductivity of GaN nanocrystalline ceramic. Journal of Solid State Chemistry, 2010, 183, 2501-2505.	1.4	7
60	Gas phase hydrogen absorption and electrochemical performance of La2(Ni,Co,Mg,M)10 based alloys. International Journal of Hydrogen Energy, 2014, 39, 2423-2429.	3.8	7
61	â€œFrozenâ€•pressure effect in GGAG:Ce3+ white light emitting nanoceramics. Ceramics International, 2019, 45, 21870-21877.	2.3	7
62	Optical, Dielectric and Magnetic Properties of La1â^'xNdxFeO3 Powders and Ceramics. Ceramics, 2019, 2, 1-12.	1.0	7
63	Efficient near-infrared quantum cutting by cooperative energy transfer in Bi3TeBO9:Nd3+ phosphors. Journal of Materials Science, 2022, 57, 185-203.	1.7	7
64	Magnetic behavior of Gd-doped GaN nanoceramics. Journal of Alloys and Compounds, 2008, 451, 500-503.	2.8	6
65	Magnetic Properties of La0.9A0.1MnO3 (A: Li, Na, K) Nanopowders and Nanoceramics. Materials, 2020, 13, 1788.	1.3	6
66	Magnetic studies of GaN nanoceramics doped with 1% of cerium. Journal of Rare Earths, 2011, 29, 1183-1187.	2.5	5
67	The influence of temperature, pressure and Ag doping on the physical properties of TiO₂nanoceramics. Nanoscale, 2016, 8, 19703-19713.	2.8	5
68	Structural, optical and phonon properties of formate-based MOF phosphors with ethylammonium cations. Physical Chemistry Chemical Physics, 2017, 19, 22733-22742.	1.3	5
69	Up-conversion luminescence of rare earth-doped KGd(WO4)2 phosphors for tunable multicolour light generation. New Journal of Chemistry, 2017, 41, 9847-9856.	1.4	5
70	Electric properties of La0.8Sr0.2CoO3 nanoceramics. Journal of Rare Earths, 2009, 27, 646-650.	2.5	3
71	Impact of Alkali Ions Codoping on Magnetic Properties of La0.9A0.1Mn0.9Co0.1O3 (A: Li, K, Na) Powders and Ceramics. Applied Sciences (Switzerland), 2020, 10, 8786.	1.3	2
72	Electronic structure engineering of Gd2.97Tb0.03Ga5â^'xAlxO12 persistent luminescence phosphors. Journal of Alloys and Compounds, 2021, 889, 161745.	2.8	2

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73	Photonic glass ceramics based on SnO2 nanocrystals: advances and perspectives. , 2020, , .		2
74	Pressure -induced changes in the persistent luminescence of Gd_{2.994}Ce_{0.006}Ga₃Al₂O₁₂ and Gd_{2.964}Ce_{0.006}Dy_{0.03}Ga₃Al₂O₁₂ nanoceramics. Dalton Transactions, 2022, 51, 5524-5533.	1.6	2
75	Optical Properties of Cr(III) doped YAG Nanoceramics. ECS Transactions, 2009, 25, 113-119.	0.3	1
76	High saturation ferromagnetic behavior of Fe:<scp>BN</scp> nanoceramic. Physica Status Solidi (A) Applications and Materials Science, 2014, 211, 696-699.	0.8	1
77	Tailoring structure and electric transport properties of the magnetic iron boron nitride nanoceramics. Journal of Magnetism and Magnetic Materials, 2015, 384, 144-147.	1.0	1
78	SiO2-SnO2 Photonic Glass-Ceramics. , 2019, , .		1
79	Design of active devices based on rare-earth-doped glass/glass ceramic: from the material characterization to the device parameter refinement. , 2020, , .		1
80	An Approach in the Structural and Spectroscopic Analysis of Yb3+-Doped YAG Nano-ceramics by Conjugation of TEM-EDX and Optical Techniques. NATO Science for Peace and Security Series B: Physics and Biophysics, 2015, , 285-307.	0.2	0
81	Up-conversion luminescence and Âµ-Raman investigations of KGd(WO<inf>4</inf>)<inf>2</inf> crystalline powders doped with rare earth ions. , 2016, , .		0
82	Bifunctional Bi2ZnOB2O6 single crystals doped with Nd3+ or Pr3+: luminescence and Âµ-Raman investigations. , 2018, , .		0
83	Modeling and parameter recovering of rare-earth-doped/co-doped glass and glass ceramics optical devices. , 2020, , .		0
84	Effect of Graphene Addition on the Thermal and Persistent Luminescence Properties of Gd2.994Ce0.006Ga3Al2O12 and Gd2.964Ce0.006Dy0.03Ga3Al2O12 Ceramics. Materials, 2022, 15, 2606.	1.3	0