Eugeniusz Zych

List of Publications by Year
in descending order

187 papers	4,267 citations	126708 33 h-index	174990 52 g-index
197 all docs	197 docs citations	197 times ranked	2837 citing authors

#	Article	IF	Citations
1	Thermoluminescence and Kinetics of Persistent Luminescence of Vacuum-Sintered Tb³⁺-Doped and Tb³⁺,Ca²⁺-Codoped Lu₂O₃ Materials. Chemistry of Materials, 2008, 20, 2252-2261.	3.2	221
2	Luminescence properties of Ce-activated YAG optical ceramic scintillator materials. Journal of Luminescence, 1997, 75, 193-203.	1.5	178
3	Widening the Temperature Range of Luminescent Thermometers through the Intraâ€•and Interconfigurational Transitions of Pr³⁺. Advanced Optical Materials, 2018, 6, 1701318.	3.6	161
4	Kinetics of cerium emission in a YAG:Ce single crystal: the role of traps. Journal of Physics Condensed Matter, 2000, 12, 1947-1958.	0.7	134
5	Spectroscopic Properties of Lu2O3/Eu3+Nanocrystalline Powders and Sintered Ceramics. Journal of Physical Chemistry B, 2002, 106, 3805-3812.	1.2	108
6	On the reasons for low luminescence efficiency in combustion-made Lu2O3:Tb. Optical Materials, 2001, 16, 445-452.	1.7	86
7	Concentration dependence of energy transfer between Eu3+ ions occupying two symmetry sites in Lu2O3. Journal of Physics Condensed Matter, 2002, 14, 5637-5650.	0.7	81
8	Spectroscopy of Eu-doped Lu2O3-based X-ray phosphor. Journal of Alloys and Compounds, 2002, 341, 385-390.	2.8	67
9	Bandgap Engineering and Excitation Energy Alteration to Manage Luminescence Thermometer Performance. The Case of Sr₂(Ge,Si)O₄:Pr³⁺. Advanced Optical Materials, 2019, 7, 1901102.	3.6	67
10	Spectroscopic Properties of Persistent Luminescence Phosphors: Lu2O3:Tb3+,M2+ (M = Ca, Sr, Ba). Journal of Physical Chemistry C, 2009, 113, 20493-20498.	1.5	65
11	Preparation, X-ray analysis and spectroscopic investigation of nanostructured Lu2O3:Tb. Journal of Alloys and Compounds, 2001, 323-324, 8-12.	2.8	56
12	Spectroscopic Characterization of Ca₃Y₂Si₃O₁₂:Eu²⁺,Eu³⁺ Powders in VUV-UVâ€“vis Region. Journal of Physical Chemistry C, 2012, 116, 25493-25503.	1.5	54
13	Synthesis and spectroscopic investigations of Sr2Y8(SiO4)6O2:Eu2+,Eu3+ phosphor for white LEDs. Journal of Luminescence, 2015, 158, 65-69.	1.5	52
14	Properties of Tb-doped vacuum-sintered Lu2O3 storage phosphor. Journal of Applied Physics, 2003, 94, 1318-1324.	1.1	49
15	Quantum efficiency of europium emission from nanocrystalline powders of Lu2O3:Eu. Journal of Physics Condensed Matter, 2003, 15, 5145-5155.	0.7	48
16	Afterglow Luminescence of Lu₂O₃:Eu Ceramics Synthesized at Different Atmospheres. Journal of Physical Chemistry C, 2010, 114, 4215-4220.	1.5	48
17	Low-Temperature Luminescence of Lu2O3:Eu Ceramics upon Excitation with Synchrotron Radiation in the Vicinity of Band Gap Energy. Chemistry of Materials, 2006, 18, 2194-2199.	3.2	46
18	Analysis of Eu3+ emission from different sites in Lu2O3. Journal of Alloys and Compounds, 2002, 341, 381-384.	2.8	45

#	Article	IF	Citations
19	Luminescence properties of Y3Al5O12:Ce nanoceramics. Journal of Luminescence, 2011, 131, 17-21.	1.5	45
20	Size effects on optical properties of Lu2O3:Eu3+ nanocrystallites. Journal of Alloys and Compounds, 2002, 344, 332-336.	2.8	41
21	Homogeneously precipitated Lu2O3:Eu nanocrystalline phosphor for X-ray detection. Sensors and Actuators B: Chemical, 2005, 109, 112-118.	4.0	41
22	Light emission efficiency and imaging performance of Lu2O3:Eu nanophosphor under X-ray radiography conditions: Comparison with Gd2O2S:Eu. Journal of Luminescence, 2014, 151, 229-234.	1.5	41
23	Exploiting bandgap engineering to finely control dual-mode Lu₂(Ge,Si)O₅:Pr³⁺ luminescence thermometers. Journal of Materials Chemistry C, 2020, 8, 10086-10097.	2.7	40
24	Tm²⁺ Activated SrB₄O₇ Bifunctional Sensor of Temperature and Pressureâ€"Highly Sensitive, Multiâ€Parameter Luminescence Thermometry and Manometry. Advanced Optical Materials, 2021, 9, 2101507.	3.6	40
25	Host-associated luminescence from YAG optical ceramics under gamma and optical excitation. Journal of Luminescence, 1998, 78, 121-134.	1.5	39
26	Ga-modified YAG:Pr3+ dual-mode tunable luminescence thermometers. Chemical Engineering Journal, 2021, 421, 129764.	6.6	39
27	Nano- and microcrystalline Lu2O3:Eu phosphors: variations in occupancy of C2and S6sites by Eu3+ions. Journal of Physics Condensed Matter, 2005, 17, 2597-2604.	0.7	38
28	The effect of charge compensation by means of Na+ ions on the luminescence behavior of Sm3+-doped CaAl4O7 phosphor. Journal of Luminescence, 2012, 132, 826-831.	1.5	38
29	Traps Formation and Characterization in Long-Term Energy Storing Lu₂O₃:Pr,Hf Luminescent Ceramics. Journal of Physical Chemistry C, 2013, 117, 11449-11458.	1.5	37
30	Sintering properties of urea-derived Lu2O3-based phosphors. Journal of Alloys and Compounds, 2002, 341, 391-394.	2.8	36
31	Effect of Mg2+ and TiIV doping on the luminescence of Y2O2S:Eu3+. Optical Materials, 2009, 31, 1791-1793.	1.7	35
32	Lu2O3-based storage phosphors. An (in)harmonious family. Coordination Chemistry Reviews, 2016, 325, 29-40.	9.5	35
33	Supersensitive Ratiometric Thermometry and Manometry Based on Dualâ€Emitting Centers in Eu²⁺/Sm²⁺â€Doped Strontium Tetraborate Phosphors. Advanced Optical Materials, 2022, 10, .	3.6	35
34	Preparation of nanocrystalline Lu2O3:Eu phosphor via a molten salts route. Journal of Alloys and Compounds, 2004, 380, 118-122.	2.8	34
35	Lutetium aluminate: spectroscopic and scintillation properties. IEEE Transactions on Nuclear Science, 1996, 43, 1316-1320.	1.2	33
36	Temperature dependence of Ce-emission kinetics in YAG:Ce optical ceramic. Journal of Alloys and Compounds, 2000, 300-301, 495-499.	2.8	33

#	Article	IF	Citations
37	Variation of emission color of Y3Al5O12:Ce induced by thermal treatment at reducing atmosphere. Journal of Alloys and Compounds, 2008, 451, 582-585.	2.8	33
38	Nd3+ dopant influence on the structural and spectroscopic properties of microcrystalline La2Mo2O9 molybdate. Optical Materials, 2015, 41, 21-31.	1.7	32
39	Persistent luminescence from Y3Al2Ga3O12 doped with Ce3+ and Cr3+ after X-ray and blue light irradiation. Journal of Rare Earths, 2019, 37, 1200-1205.	2.5	32
40	Structural and spectroscopic studies of Lu2O3/Eu3+ nanocrystallites embedded in SiO2 solâ€“gel ceramics. Journal of Physics and Chemistry of Solids, 2003, 64, 111-119.	1.9	31
41	Structural and spectroscopic characterization of Lu2O3:Eu nanocrystalline spherical particles. Journal of Physics Condensed Matter, 2004, 16, 6983-6994.	0.7	31
42	Anomalous activity of Eu3+ in S6 site of Lu2O3 in persistent luminescence. Journal of Luminescence, 2007, 122-123, 335-338.	1.5	30
43	Radioluminescence of Lu2O3:Eu nanocrystalline powder and vacuum-sintered ceramic. Radiation Measurements, 2004, 38, 471-474.	0.7	29
44	Flux-Aided Synthesis of Lu2O3 and Lu2O3:Euâ€”Single Crystal Structure, Morphology Control and Radioluminescence Efficiency. Materials, 2014, 7, 7059-7072.	1.3	29
45	Managing the Properties of Lu₂O₃:Tb,Hf Storage Phosphor by Means of Fabrication Conditions. Journal of Physical Chemistry C, 2013, 117, 26921-26928.	1.5	28
46	Ce3+ to Mn2+ energy transfer in Sr3Y2Ge3O12:Ce3+, Mn2+ garnet phosphor. Journal of Alloys and Compounds, 2015, 653, 636-642.	2.8	28
47	Infrared spectroscopy of LuAlO3:Ce a useful tool to determine Ce concentration. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 1998, 54, 1763-1769.	2.0	27
48	Temperature dependence of host-associated luminescence from YAG transparent ceramic material. Journal of Luminescence, 2000, 90, 89-99.	1.5	27
49	Ionic Liquidâ€based Synthesisâ€”A Lowâ€Temperature Route to Nanophosphates. ChemSusChem, 2011, 4, 595-598.	3.6	27
50	Studying the luminescence efficiency of Lu2O3:Eu nanophosphor material for digital X-ray imaging applications. Applied Physics A: Materials Science and Processing, 2012, 106, 131-136.	1.1	27
51	Spectroscopic Studies of Nanopowder and Nanoceramics <scp><scp>La</scp></scp>₂<scp><scp>Hf</scp></scp>₂<scp><scp>O</scp></scp>₇<scp>:Ce</scp> Scintillator. Journal of the American Ceramic Society, 2014, 97, 1595-1601.	1.9	27
52	Modeling Luminescent Properties of HfO₂:Eu Powders with Li, Ta, Nb, and V Codopants. Journal of Physical Chemistry C, 2012, 116, 6409-6419.	1.5	26
53	Infrared and cooperative luminescence in Yb3+ doped calcium aluminate CaAl4O7. Journal of Luminescence, 2013, 143, 503-509.	1.5	26
54	Crystal-field analysis of Eu3Âin Lu2O3. Journal of Physics Condensed Matter, 2003, 15, 2169-2181.	0.7	25

#	Article	IF	Citations
55	Monoclinic HfO2:Eu X-ray phosphor. Radiation Measurements, 2010, 45, 493-496.	0.7	25
56	Forcing Eu3+into Different Positions in the BaHfO3Host and Its Spectroscopic Consequences. Chemistry of Materials, 2010, 22, 4652-4659.	3.2	25
57	Temperature dependence of 4fnâ^'15d1â†'4fn luminescence of Ce3+ and Pr3+ ions in Sr2GeO4 host. Journal of Luminescence, 2018, 198, 163-170.	1.5	25
58	Oxygen Vacancy, Oxygen Vacancyâ€"Vacancy Pairs, and Frenkel Defects in Cubic Lutetium Oxide. Journal of Physical Chemistry C, 2020, 124, 14945-14962.	1.5	25
59	La_{0.4}Gd_{1.6}Zr₂O₇:0.1%Pr transparent sintered ceramic â€" a wide-range luminescence thermometer. Journal of Materials Chemistry C, 2020, 8, 7005-7011.	2.7	25
60	On peculiarities of Eu³⁺and Eu²⁺luminescence in Sr₂GeO₄host. RSC Advances, 2016, 6, 91836-91845.	1.7	24
61	The effect of charge compensation through alkali metal co-doping on the luminescence behaviour of SrAl4O7:Sm3+ phosphor. Journal of Luminescence, 2018, 197, 211-218.	1.5	24
62	Luminescence of Bi3+ and Bi2+ ions in novel Bi-doped SrAl4O7 phosphor. Optical Materials, 2020, 107, 109999.	1.7	24
63	New fabrication procedure of Y2SiO5:Ce and its structural and spectroscopic characterization. Journal of Alloys and Compounds, 2008, 451, 286-289.	2.8	23
64	Intrinsic and Ce3+-related luminescence of YAG and YAG:Ce single crystals, single crystalline films and nanopowders. Optical Materials, 2009, 31, 1845-1848.	1.7	23
65	Luminescences of Bi3+ and Bi2+ ions in Bi-doped CaAl4O7 phosphor powders obtained via modified Pechini citrate process. Journal of Alloys and Compounds, 2019, 806, 798-805.	2.8	23
66	Eu²⁺ emission from thermally coupled levels â€" new frontiers for ultrasensitive luminescence thermometry. Journal of Materials Chemistry C, 2022, 10, 1220-1227.	2.7	23
67	Fabrication and spectroscopic properties of nanocrystalline La2Hf2O7:Pr. Radiation Measurements, 2010, 45, 432-434.	0.7	22
68	Optical properties of Eu3+-doped CaAl4O7 synthesized by the Pechini method. Optical Materials, 2010, 32, 1117-1122.	1.7	22
69	Luminescence of Tb-doped Ca3Y2(Si3O9)2 oxide upon UV and VUV synchrotron radiation excitation. Journal of Solid State Chemistry, 2011, 184, 1707-1714.	1.4	22
70	Comparison of spectroscopic properties of nanoparticulate Lu2O3:Eu synthesized using different techniques. Journal of Alloys and Compounds, 2004, 380, 123-129.	2.8	21
71	Radioluminescence and photoluminescence of hafnia-based Eu-doped phosphors. Optical Materials, 2009, 31, 1764-1767.	1.7	21
72	Lu2O3:Tb,Hf storage phosphor. Radiation Measurements, 2010, 45, 490-492.	0.7	21

#	Article	IF	Citations
73	Effect of charge compensation on up-conversion and UV excited luminescence of Eu3+ in Yb3+â€“Eu3+ doped calcium aluminate CaAl4O7. Materials Chemistry and Physics, 2014, 147, 304-310.	2.0	21
74	Synthesis and up-converted luminescence of Y3NbO7:Er. Optical Materials, 2007, 30, 188-191.	1.7	20
75	BaHfO3:Ce sintered ceramic scintillators. Radiation Measurements, 2010, 45, 386-388.	0.7	20
76	High pressure and time-resolved luminescence spectra of Ca₃Y₂(SiO₄)₃doped with Eu²⁺and Eu³⁺. Journal of Physics Condensed Matter, 2013, 25, 025603.	0.7	20
77	Up-conversion in elpasolite crystals doped with U3+. Chemical Physics Letters, 2000, 332, 308-312.	1.2	19
78	Synthesis, morphology and spectroscopy of cubic Y3NbO7:Er. Journal of Luminescence, 2007, 127, 523-530.	1.5	19
79	Size-dependent luminescence in Y2Si2O7 nanoparticles doped with Ce3+ ions. Applied Physics A: Materials Science and Processing, 2010, 99, 871-877.	1.1	19
80	The effect of N3â˜ substitution for O2â˜ on optical properties of YAG:Ce3+ phosphor. Journal of Alloys and Compounds, 2016, 668, 194-199.	2.8	19
81	Photo- and cathodoluminescence properties of Lu2O3:Tb3+ nanocrystallites embedded in TiO2 films on silicon and quartz substrates. Optical Materials, 2004, 26, 129-132.	1.7	18
82	The bright side of defects: Chemistry and physics of persistent and storage phosphors. Journal of Luminescence, 2013, 133, 51-56.	1.5	18
83	A new photoluminescent feature in LuPO₄:Eu thermoluminescent sintered materials. RSC Advances, 2016, 6, 57920-57928.	1.7	18
84	Relationship between structure and luminescence properties in Ce3+ or Ce3+, Mn2+-doped garnet phosphors for use in white LEDs. Journal of Luminescence, 2016, 169, 862-867.	1.5	18
85	Design of LaPO4:Nd3+ materials by using ionic liquids. Optical Materials, 2017, 63, 76-87.	1.7	18
86	Highly doped alkaline earth nanofluorides synthesized from ionic liquids. Optical Materials, 2011, 34, 336-340.	1.7	17
87	Inhomogeneity of donor doping in SrTiO3 substrates studied by fluorescence-lifetime imaging microscopy. Applied Physics Letters, 2013, 103, .	1.5	17
88	Controllable synthesis of nanoscale YPO4:Eu3+ in ionic liquid. Journal of Luminescence, 2016, 169, 868-873.	1.5	17
89	Cooperative up-conversion processes in SrAl 4 O 7 :Yb and SrAl 4 O 7 :Yb,Tb and their dependence on charge compensation by Na. Journal of Luminescence, 2017, 183, 185-192.	1.5	17
90	Synthesis and luminescence properties of BaHfO3: Pr ceramics. Journal of Luminescence, 2017, 189, 148-152.	1.5	17

#	Article	IF	Citations
91	Synthesis, crystal structure, magnetism, and absorption spectra of A2UX5 Type Halides (A = K, Rb; X =) Tj ETQq1 1 0.784314 rgBT /Over	0.6	16
92	Effect of Na+ co-dopant and activator concentration on luminescent properties of CaGa4O7:Eu3+. Journal of Luminescence, 2012, 132, 2879-2884.	1.5	16
93	Cooperative energy transfer in Yb3+â€“Tb3+ co-doped CaAl4O7 upconverting phosphor. Materials Chemistry and Physics, 2015, 156, 220-226.	2.0	16
94	Photo- and radioluminescent properties of undoped and Bi-doped Lu2WO6 powders at 10â€“300K. Journal of Luminescence, 2015, 160, 50-56.	1.5	16
95	SrS:Ce and LuPO4:Eu Sintered Ceramics: Old Phosphors with New Functionalities. ECS Journal of Solid State Science and Technology, 2016, 5, R3078-R3088.	0.9	16
96	Preparation and properties of hydrated uranium(III) complex chlorides. Part II. Uranium trichloride monomethylcyanide pentahydrate. Inorganica Chimica Acta, 1986, 115, 219-222.	1.2	15
97	Preparation, structural and spectroscopic studies of (YxLu1â^'x)2O3:Eu3+ nanopowders. Optical Materials, 2010, 32, 1612-1617.	1.7	15
98	Photoluminescent Properties of Monoclinic HfO₂:Ti Sintered Ceramics in 16â€“300 K. Journal of Physical Chemistry C, 2015, 119, 5026-5032.	1.5	15
99	Controlled synthesis of the monoclinic and orthorhombic polymorphs of Sr₂SiO₄ activated with Ce³⁺ or Eu²⁺. RSC Advances, 2015, 5, 104441-104450.	1.7	15
100	On the response of semitransparent nanoparticulated films of LuPO4:Eu in poly-energetic X-ray imaging applications. Applied Physics A: Materials Science and Processing, 2016, 122, 1.	1.1	15
101	Depletion of high-energy carriers in YAG optical ceramic materials. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 1998, 54, 1771-1777.	2.0	14
102	White colour emission from BaHfO3:Eu phosphor. Radiation Measurements, 2010, 45, 621-623.	0.7	14
103	Lu2O3:Pr,Hf Storage Phosphor: Compositional and Technological Issues. Materials, 2014, 7, 157-169.	1.3	14
104	Anomalous Red and Infrared Luminescence of Ce³⁺ Ions in SrS:Ce Sintered Ceramics. Journal of Physical Chemistry C, 2015, 119, 27649-27656.	1.5	14
105	Ionic liquid supported synthesis of nano-sized rare earth doped phosphates. Journal of Luminescence, 2017, 189, 99-112.	1.5	14
106	Pressure-driven configurational crossover between 4f7 and 4f65d1 States â€“ Giant enhancement of narrow Eu2+ UV-Emission lines in SrB4O7 for luminescence manometry. Acta Materialia, 2022, 231, 117886.	3.8	14
107	New synthesis procedure for nanoparticulate Lu2O3:Eu and spectroscopy of the product. Journal of Alloys and Compounds, 2008, 451, 591-594.	2.8	13
108	Characterization of afterglow-related spectroscopic effects in vacuum sintered Tb3+, Sr2+ co-doped Lu2O3 ceramics. Optical Materials, 2012, 35, 240-243.	1.7	13

#	Article	IF	Citations
109	Toward Optical Ceramics Based on Cubic Yb³⁺ Rare Earth Ion-Doped Mixed Molybdato-Tungstates: Part I - Structural Characterization. Journal of Physical Chemistry C, 2017, 121, 13290-13302.	1.5	13
110	The role of Ti in charge carriers trapping in the red-emitting Lu2O3:Pr,Ti phosphor. Journal of Luminescence, 2018, 194, 641-648.	1.5	13
111	Spectroscopic reflects of structural disorder in Eu3+/Pr3+-doped La0.4Gd1.6Zr2O7 transparent ceramics. Journal of Alloys and Compounds, 2018, 769, 18-26.	2.8	13
112	Structural and spectroscopic properties of BaHfO₃: Eu Â– the issue of the dopant location in the host lattice. Zeitschrift FÃ¼r Kristallographie, Supplement, 2009, 2009, 367-374.	0.5	13
113	Preparation of uranium tribromide by thermal vacuum decomposition of NH4UBr4Â·1.5CH3CNÂ·6H2O. Polyhedron, 1990, 9, 2175-2176.	1.0	12
114	Theoretical analysis and experiment on Eu reduction in alumina optical materials. Optical Materials Express, 2016, 6, 2404.	1.6	12
115	Electron and hole trapping in Eu- or Eu,Hf-doped LuPO₄ and YPO₄ tracked by EPR and TSL spectroscopy. Journal of Materials Chemistry C, 2019, 7, 11473-11482.	2.7	12
116	Dopant-related electron trap states in Lu2O3:Ta. Journal of Luminescence, 2019, 214, 116583.	1.5	12
117	Properties of Charge Carrier Traps in Lu₂O₃:Tb,Hf Ceramic Storage Phosphors Observed by High-Pressure Spectroscopy and Photoconductivity. Journal of Physical Chemistry C, 2020, 124, 20340-20349.	1.5	12
118	Effect of Ge:Si ratio and charging energy on carriers trapping in Y2(Ge,Si)O5:Pr powders observed with thermoluminescence methods. Journal of Alloys and Compounds, 2021, 858, 157676.	2.8	12
119	High-entropy sesquioxide X2O3 upconversion transparent ceramics. Scripta Materialia, 2020, 186, 19-23.	2.6	12
120	Spectroscopic properties of sintered BaMgAl10O17:Eu2+ (BAM) translucent pellets. Journal of Alloys and Compounds, 2004, 380, 113-117.	2.8	11
121			

#	Article	IF	Citations
127	Fine structure in high resolution 4f7â€“4f65d excitation and emission spectra of X-ray induced Eu2+ centers in LuPO4:Eu sintered ceramics. Journal of Luminescence, 2019, 207, 435-442.	1.5	10
128	The effect of Gd3+ doping on luminescence properties of (Gd, Ce): SrF2 nanopowders and transparent ceramics. Journal of Luminescence, 2020, 224, 117243.	1.5	10
129	Y₂(Ge,Si)O₅:Pr phosphors: multimodal temperature and pressure sensors shaped by bandgap management. Journal of Materials Chemistry C, 2021, 9, 13818-13831.	2.7	10
130	The effect of temperature and excitation energy of the high- and low-spin 4fâ†'5d transitions on charging of traps in Lu2O3:Tb,M (MÂ=ÂTi, Hf). Acta Materialia, 2022, 231, 117852.	3.8	10
131	Size effects in the low temperature spectroscopy of Lu2O3 nanopowders. Optical Materials, 2008, 31, 241-246.	1.7	9
132	Thermoluminescent properties of HfO2:Ti after exposure to X-rays. Radiation Measurements, 2016, 90, 140-144.	0.7	9
133	Tracing mechanism of optically and thermally stimulated luminescence in Lu2O3:Tb,M (MÂ=ÂHf, Zr, Ti) ceramic storage phosphors. Journal of Rare Earths, 2019, 37, 1170-1175.	2.5	9
134	On the orange-red persistent luminescence of ScPO4:Eu3+. Journal of Alloys and Compounds, 2020, 816, 152603.	2.8	9
135	Analytical techniques in provenance determination of archaeological objects from Lower Silesia. Journal of Molecular Structure, 2008, 887, 41-47.	1.8	8
136	Search for ultraviolet luminescence of soil particles at the Phoenix landing site, Mars. Planetary and Space Science, 2012, 70, 134-147.	0.9	8
137	On the thermoluminescence properties and mechanism of LuPO₄:Eu sintered materials. RSC Advances, 2016, 6, 89019-89027.	1.7	8
138	Grains size and shape dependence of luminescence efficiency of Lu2O3:Eu thin screens. Results in Physics, 2017, 7, 980-981.	2.0	8
139	The mechanism of X-ray excited luminescence in BaHfO3 doped with Eu3+, Y3+ or Eu3+, La3+. Journal of Luminescence, 2017, 192, 397-403.	1.5	8
140	On site-selective optically and thermally induced processes in Lu2O3:Tb,Ta storage phosphors. Journal of Luminescence, 2019, 209, 274-282.	1.5	8
141	Chemical stabilization of Eu2+ in LuPO4 and YPO4 hosts and its peculiar sharp line luminescence. Journal of Alloys and Compounds, 2020, 844, 156096.	2.8	8
142	Emission spectra of U3+ in Cs2NaYBr6. Journal of Alloys and Compounds, 1995, 225, 111-114.	2.8	7
143	Low temperature synthesis of YAG:Eu spheroidal monocrystalline submicron-sized particles. Journal of Luminescence, 2006, 119-120, 576-580.	1.5	7
144	A study on Aerosol jet printing technology in LED module manufacturing. Proceedings of SPIE, 2016, , .	0.8	7

#	Article	IF	Citations
145	Ce 3+ -sensitized red Mn 2+ luminescence in calcium aluminoborate phosphor material. Optical Materials, 2017, 74, 2-11.	1.7	7
146	Comparison of the luminescent properties of LuAG:Pr nanopowders, crystals and films using synchrotron radiation. Optical Materials, 2017, 66, 271-276.	1.7	7
147	Mixed vanadates: Optimization of optical properties by varying chemical composition. Journal of Luminescence, 2017, 189, 140-147.	1.5	7
148	Chemistry of tervalent uranium. Preparation and properties of NH4UBr4.1.5CH3CN.6H2O. Journal of the Less Common Metals, 1990, 161, 233-238.	0.9	6
149	Effect of Mg2+ and TiIV doping on the luminescence of Y2O3:Eu3+. Journal of Luminescence, 2009, 129, 1661-1663.	1.5	6
150	Defect states in cubic lutetium oxide caused by oxygen or lutetium inclusions or vacancies. Journal of Luminescence, 2018, 197, 324-330.	1.5	6
151	Vibrational dynamics and nature of the double halide bridges for the example of solid A2UX5 uranium(III) ternary systems (A=K, Rb; X=Cl, Br and I). Vibrational Spectroscopy, 1999, 21, 111-126.	1.2	5
152	Cathodoluminescence of Lu 2 O 3 :Tb. Radiation Effects and Defects in Solids, 2002, 157, 983-988.	0.4	5
153	Microstructure and Spectroscopy of Lu₂O₃:Eu Prepared Using Various Synthesis Techniques. Solid State Phenomena, 2004, 99-100, 25-30.	0.3	5
154	Fabrication of submicron-sized oxide phosphors and their spectroscopic properties. Radiation Measurements, 2007, 42, 894-898.	0.7	5
155	Spectroscopic properties of high-temperature sintered SrS:0.05%Ce³⁺ under high hydrostatic pressure. Physical Chemistry Chemical Physics, 2018, 20, 10266-10274.	1.3	5
156	Detective quantum efficiency (DQE) of high X-ray absorption Lu2O3:Eu thin screens: the role of shape and size of nano- and micro-grains. Applied Physics A: Materials Science and Processing, 2018, 124, 1.	1.1	5
157	Radio-, Thermo- and Photoluminescence Properties of Lu2O3:Eu and Lu2O3:Tb Nanopowder and Film Scintillators. Crystals, 2019, 9, 148.	1.0	5
158	Photo- radio- and thermoluminescence of sintered transparent Al2O3:Eu2+ in the range 15â€“800ÂK. Optical Materials, 2020, 105, 109877.	1.7	5
159	Luminescence of Lu2O3:Tm3+ nanoparticles. Materials Research Society Symposia Proceedings, 2001, 667, 1.	0.1	4
160	Investigation of nanostructured Lu 2 O 3 :Tb. , 2001, 4413, 176.		4
161	Luminescent Properties of Nanopowder and Singleâ€Crystalline Films of TbAG:Ce Garnet. Physica Status Solidi (B): Basic Research, 2020, 257, 1900495.	0.7	4
162	Ce-Emission from Rare Earth Tantalate Hosts. Materials Science Forum, 1997, 239-241, 267-270.	0.3	3

#	Article	IF	Citations
163	Scintillation Properties of YAG: Ce Optical Ceramics. Materials Science Forum, 1997, 239-241, 257-260.	0.3	3
164	Multicolor Luminescence from Ca₃Y₂(SiO₄)₃:Eu²⁺,Eu³⁺ Material. Materials Research Society Symposia Proceedings, 2011, 1342, 9.	0.1	3
165	LuPO₄:Yb phosphor with concerted UV and IR thermoluminescent emissions by quantum cutting at high temperatures. Physical Chemistry Chemical Physics, 2019, 21, 23826-23832.	1.3	3
166	White persistent luminescence of La2Hf2O7:Ti,Pr. Optical Materials, 2021, 113, 110896.	1.7	3
167	Spectroscopy and Structure of Eu-Doped Nanostructured Lu2O3. Radiation Effects and Defects in Solids, 2003, 158, 319-324.	0.4	2
168	Short-range atomic order in the surface layer of sputter-deposited Al0.6W0.4 thin film investigated using directional elastic peak electron spectroscopy. Journal of Non-Crystalline Solids, 2006, 352, 2811-2817.	1.5	2
169	Spectroscopic properties of Y₃TaO₇powders activated with Eu, Er and co-activated with Yb. Journal of Physics: Conference Series, 2007, 79, 012043.	0.3	2
170	Microwave-assisted hydrothermal synthesis and spectroscopic characteristics of a Lu4Hf3O12:Pr scintillator. RSC Advances, 2016, 6, 56101-56107.	1.7	2
171	Modifying the luminescence characteristics of Lu₂O₃:Eu large nanocrystals with polycarbonate host. Polymer Composites, 2016, 37, 1330-1334.	2.3	2
172	On thermoluminescence mechanism and energy leakage in Lu2O3:Tb,V storage phosphor. Optical Materials: X, 2019, 1, 100001.	0.3	2
173	Defects in hafnium-doped lutetium oxide and the corresponding electron traps: a meta-generalized gradient approximation study. Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials, 2022, 78, 564-575.	0.5	2
174	Light emission efficiency of Lu₂O₃:Eu nanophosphor scintillating screen under x-ray radiographic conditions. Proceedings of SPIE, 2013, , .	0.8	1
175	Imaging performance of a thin Lu2O3:Eu nanophosphor scintillating screen coupled to a high resolution CMOS sensor under X-ray radiographic conditions: comparison with Gd2O2S:Eu conventional phosphor screen. , 2014, , .		1
176	X-ray luminescence efficiency and detector quantum gain of LuPO4:Eu nanophosphor. Physica Medica, 2014, 30, e96.	0.4	1
177	X-ray imaging resolution of phosphor screens prepared with different grains size and shape of granular Lu₂O₃:Eu. Journal of Physics: Conference Series, 2017, 931, 012032.	0.3	1
178	Luminescence properties of translucent nano- and micro-crystalline LuPO4:Ce3+ films in the 20â€“700 K range of temperatures. Journal of Luminescence, 2018, 200, 50-58.	1.5	1
179	The effect of dose on thermoluminescence of ScPO4:Eu3+ ceramic. Optical Materials, 2020, 107, 110090.	1.7	1
180	Mixing phosphors to improve the temperature measuring quality. Optical Materials, 2021, 122, 111719.	1.7	1

#	Article	IF	Citations
181	Preparation of Nanocrystalline Lu2O3:Eu Phosphor via a Molten Salts Route.. ChemInform, 2005, 36, no.	0.1	0
182	Thermoluminescence characteristics of Lu<inf>2</inf>O<inf>3</inf>:Pr,Hf red emitting storage phosphor. , 2012, , .		0
183	Preparation and imaging performance of nanoparticulated LuPO4:Eu semitransparent films under x-ray radiation. , 2015, , .		0
184	Prefaceâ€"JSS Focus Issue on Recent Advances in Wide Bandgap III-Nitride Devices and Solid State Lighting: A Tribute to Isamu Akasaki. ECS Journal of Solid State Science and Technology, 2020, 9, 010001.	0.9	0
185	Tailoring the Energy Storage Properties of the Lu2(Ge,Si)O5:Pr Phosphors Varying the Ge:Si Ratio. ECS Journal of Solid State Science and Technology, 2021, 10, 106009.	0.9	0
186	X-RAY INVESTIGATION OF LUTETIUM OXIDE NANOSTRUCTURED MATERIAL. , 2001, , .		0
187	A Special Issue on Functional Nanomaterials and Applications. Science of Advanced Materials, 2017, 9, 303-315.	0.1	0