

Eugeniusz Zych

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/444007/publications.pdf>

Version: 2024-02-01

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	Eu ²⁺ emission from thermally coupled levels – new frontiers for ultrasensitive luminescence thermometry. <i>Journal of Materials Chemistry C</i> , 2022, 10, 1220-1227.	2.7	23
2	Pressure-driven configurational crossover between 4f ⁷ and 4f ⁶ 5d ¹ States – Giant enhancement of narrow Eu ²⁺ UV-Emission lines in SrB ₄ O ₇ for luminescence manometry. <i>Acta Materialia</i> , 2022, 231, 117886.	3.8	14
3	The effect of temperature and excitation energy of the high- and low-spin 4f ⁷ 5d transitions on charging of traps in Lu ₂ O ₃ :Tb,M (M=Ti, Hf). <i>Acta Materialia</i> , 2022, 231, 117852.	3.8	10
4	Defects in hafnium-doped lutetium oxide and the corresponding electron traps: a meta-generalized gradient approximation study. <i>Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials</i> , 2022, 78, 564-575.	0.5	2
5	Supersensitive Ratiometric Thermometry and Manometry Based on Dual-Emitting Centers in Eu ²⁺ /Sm ²⁺ -Doped Strontium Tetraborate Phosphors. <i>Advanced Optical Materials</i> , 2022, 10, .	3.6	35
6	Effect of Ge:Si ratio and charging energy on carriers trapping in Y ₂ (Ge,Si) ₅ :Pr powders observed with thermoluminescence methods. <i>Journal of Alloys and Compounds</i> , 2021, 858, 157676.	2.8	12
7	Y ₂ (Ge,Si) ₅ :Pr phosphors: multimodal temperature and pressure sensors shaped by bandgap management. <i>Journal of Materials Chemistry C</i> , 2021, 9, 13818-13831.	2.7	10
8	White persistent luminescence of La ₂ Hf ₂ O ₇ :Ti,Pr. <i>Optical Materials</i> , 2021, 113, 110896.	1.7	3
9	Tm ²⁺ Activated SrB ₄ O ₇ Bifunctional Sensor of Temperature and Pressure – Highly Sensitive, Multi-Parameter Luminescence Thermometry and Manometry. <i>Advanced Optical Materials</i> , 2021, 9, 2101507.	3.6	40
10	Ga-modified YAG:Pr ³⁺ dual-mode tunable luminescence thermometers. <i>Chemical Engineering Journal</i> , 2021, 421, 129764.	6.6	39
11	Tailoring the Energy Storage Properties of the Lu ₂ (Ge,Si) ₅ :Pr Phosphors Varying the Ge:Si Ratio. <i>ECS Journal of Solid State Science and Technology</i> , 2021, 10, 106009.	0.9	0
12	Mixing phosphors to improve the temperature measuring quality. <i>Optical Materials</i> , 2021, 122, 111719.	1.7	1
13	On the orange-red persistent luminescence of ScPO ₄ :Eu ³⁺ . <i>Journal of Alloys and Compounds</i> , 2020, 816, 152603.	2.8	9
14	Preface – JSS Focus Issue on Recent Advances in Wide Bandgap III-Nitride Devices and Solid State Lighting: A Tribute to Isamu Akasaki. <i>ECS Journal of Solid State Science and Technology</i> , 2020, 9, 010001.	0.9	0
15	The effect of dose on thermoluminescence of ScPO ₄ :Eu ³⁺ ceramic. <i>Optical Materials</i> , 2020, 107, 110090.	1.7	1
16	Oxygen Vacancy, Oxygen Vacancy – Vacancy Pairs, and Frenkel Defects in Cubic Lutetium Oxide. <i>Journal of Physical Chemistry C</i> , 2020, 124, 14945-14962.	1.5	25
17	Chemical stabilization of Eu ²⁺ in LuPO ₄ and YPO ₄ hosts and its peculiar sharp line luminescence. <i>Journal of Alloys and Compounds</i> , 2020, 844, 156096.	2.8	8
18	Luminescence of Bi ³⁺ and Bi ²⁺ ions in novel Bi-doped SrAl ₄ O ₇ phosphor. <i>Optical Materials</i> , 2020, 107, 109999.	1.7	24

#	ARTICLE	IF	CITATIONS
19	Exploiting bandgap engineering to finely control dual-mode Lu ₂ (Ge,Si)O ₅ :Pr ³⁺ luminescence thermometers. Journal of Materials Chemistry C, 2020, 8, 10086-10097.	2.7	40
20	Properties of Charge Carrier Traps in Lu ₂ O ₃ :Tb,Hf Ceramic Storage Phosphors Observed by High-Pressure Spectroscopy and Photoconductivity. Journal of Physical Chemistry C, 2020, 124, 20340-20349.	1.5	12
21	Luminescent Properties of Nanopowder and Single-Crystalline Films of TbAG:Ce Garnet. Physica Status Solidi (B): Basic Research, 2020, 257, 1900495.	0.7	4
22	La _{0.4} Gd _{1.6} Zr ₂ O ₇ :0.1%Pr transparent sintered ceramic – a wide-range luminescence thermometer. Journal of Materials Chemistry C, 2020, 8, 7005-7011.	2.7	25
23	The effect of Gd ³⁺ doping on luminescence properties of (Gd, Ce): SrF ₂ nanopowders and transparent ceramics. Journal of Luminescence, 2020, 224, 117243.	1.5	10
24	Photo- radio- and thermoluminescence of sintered transparent Al ₂ O ₃ :Eu ²⁺ in the range 15–800 Å. Optical Materials, 2020, 105, 109877.	1.7	5
25	High-entropy sesquioxide X ₂ O ₃ upconversion transparent ceramics. Scripta Materialia, 2020, 186, 19-23.	2.6	12
26	Electron and hole trapping in Eu- or Eu,Hf-doped LuPO ₄ and YPO ₄ tracked by EPR and TSL spectroscopy. Journal of Materials Chemistry C, 2019, 7, 11473-11482.	2.7	12
27	LuPO ₄ :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
28	Luminescences of Bi ³⁺ and Bi ²⁺ ions in Bi-doped CaAl ₄ O ₇ phosphor powders obtained via modified Pechini citrate process. Journal of Alloys and Compounds, 2019, 806, 798-805.	2.8	23
29	Dopant-related electron trap states in Lu ₂ O ₃ :Ta. Journal of Luminescence, 2019, 214, 116583.	1.5	12
30	Bandgap Engineering and Excitation Energy Alteration to Manage Luminescence Thermometer Performance. The Case of Sr ₂ (Ge,Si)O ₄ :Pr ³⁺ . Advanced Optical Materials, 2019, 7, 1901102.	3.6	67
31	On site-selective optically and thermally induced processes in Lu ₂ O ₃ :Tb,Ta storage phosphors. Journal of Luminescence, 2019, 209, 274-282.	1.5	8
32	On thermoluminescence mechanism and energy leakage in Lu ₂ O ₃ :Tb,V storage phosphor. Optical Materials: X, 2019, 1, 100001.	0.3	2
33	Persistent luminescence from Y ₃ Al ₂ Ga ₃ O ₁₂ doped with Ce ³⁺ and Cr ³⁺ after X-ray and blue light irradiation. Journal of Rare Earths, 2019, 37, 1200-1205.	2.5	32
34	Tracing mechanism of optically and thermally stimulated luminescence in Lu ₂ O ₃ :Tb,M (M=Hf, Zr, Ti) ceramic storage phosphors. Journal of Rare Earths, 2019, 37, 1170-1175.	2.5	9
35	Radio-, Thermo- and Photoluminescence Properties of Lu ₂ O ₃ :Eu and Lu ₂ O ₃ :Tb Nanopowder and Film Scintillators. Crystals, 2019, 9, 148.	1.0	5
36	Fine structure in high resolution 4f ₇ –4f ₆ 5d excitation and emission spectra of X-ray induced Eu ²⁺ centers in LuPO ₄ :Eu sintered ceramics. Journal of Luminescence, 2019, 207, 435-442.	1.5	10

#	ARTICLE	IF	CITATIONS
37	The effect of charge compensation through alkali metal co-doping on the luminescence behaviour of SrAl ₄ O ₇ :Sm ³⁺ phosphor. Journal of Luminescence, 2018, 197, 211-218.	1.5	24
38	Spectroscopic properties of high-temperature sintered SrS:0.05%Ce ³⁺ under high hydrostatic pressure. Physical Chemistry Chemical Physics, 2018, 20, 10266-10274.	1.3	5
39	Luminescence properties of translucent nano- and micro-crystalline LuPO ₄ :Ce ³⁺ films in the 20–700 K range of temperatures. Journal of Luminescence, 2018, 200, 50-58.	1.5	1
40	Temperature dependence of 4f ⁿ →15d1â†’4f ⁿ luminescence of Ce ³⁺ and Pr ³⁺ ions in Sr ₂ GeO ₄ host. Journal of Luminescence, 2018, 198, 163-170.	1.5	25
41	Defect states in cubic lutetium oxide caused by oxygen or lutetium inclusions or vacancies. Journal of Luminescence, 2018, 197, 324-330.	1.5	6
42	Widening the Temperature Range of Luminescent Thermometers through the Intra- and Interconfigurational Transitions of Pr ³⁺ . Advanced Optical Materials, 2018, 6, 1701318.	3.6	161
43	The role of Ti in charge carriers trapping in the red-emitting Lu ₂ O ₃ :Pr,Ti phosphor. Journal of Luminescence, 2018, 194, 641-648.	1.5	13
44	Spectroscopic reflects of structural disorder in Eu ³⁺ /Pr ³⁺ -doped La _{0.4} Gd _{1.6} Zr ₂ O ₇ transparent ceramics. Journal of Alloys and Compounds, 2018, 769, 18-26.	2.8	13
45	On energy storage of Lu ₂ O ₃ :Tb,M (M=Hf, Ti, Nb) sintered ceramics: Glow curves, dose-response dependence, radiation hardness and self-dose effect. Journal of Alloys and Compounds, 2018, 769, 794-800.	2.8	10
46	Detective quantum efficiency (DQE) of high X-ray absorption Lu ₂ O ₃ :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
47	Ionic liquid supported synthesis of nano-sized rare earth doped phosphates. Journal of Luminescence, 2017, 189, 99-112.	1.5	14
48	Grains size and shape dependence of luminescence efficiency of Lu ₂ O ₃ :Eu thin screens. Results in Physics, 2017, 7, 980-981.	2.0	8
49	On thermoluminescence of Lu ₂ O ₃ :Tb,Ta ceramic storage phosphors. Journal of Luminescence, 2017, 189, 153-158.	1.5	10
50	Ce ³⁺ -sensitized red Mn ²⁺ luminescence in calcium aluminoborate phosphor material. Optical Materials, 2017, 74, 2-11.	1.7	7
51	Toward Optical Ceramics Based on Cubic Yb ³⁺ Rare Earth Ion-Doped Mixed Molybdate-Tungstates: Part I - Structural Characterization. Journal of Physical Chemistry C, 2017, 121, 13290-13302.	1.5	13
52	Comparison of the luminescent properties of LuAG:Pr nanopowders, crystals and films using synchrotron radiation. Optical Materials, 2017, 66, 271-276.	1.7	7
53	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
54	Mixed vanadates: Optimization of optical properties by varying chemical composition. Journal of Luminescence, 2017, 189, 140-147.	1.5	7

#	ARTICLE	IF	CITATIONS
55	The mechanism of X-ray excited luminescence in BaHfO ₃ doped with Eu ³⁺ , Y ³⁺ or Eu ³⁺ , La ³⁺ . Journal of Luminescence, 2017, 192, 397-403.	1.5	8
56	Design of LaPO ₄ :Nd ³⁺ materials by using ionic liquids. Optical Materials, 2017, 63, 76-87.	1.7	18
57	Synthesis and luminescence properties of BaHfO ₃ : Pr ceramics. Journal of Luminescence, 2017, 189, 148-152.	1.5	17
58	X-ray imaging resolution of phosphor screens prepared with different grains size and shape of granular Lu ₂ O ₃ :Eu. Journal of Physics: Conference Series, 2017, 931, 012032.	0.3	1
59	<i>A Special Issue on</i> Functional Nanomaterials and Applications. Science of Advanced Materials, 2017, 9, 303-315.	0.1	0
60	Lu ₂ O ₃ -based storage phosphors. An (in)harmonious family. Coordination Chemistry Reviews, 2016, 325, 29-40.	9.5	35
61	A study on Aerosol jet printing technology in LED module manufacturing. Proceedings of SPIE, 2016, , .	0.8	7
62	Theoretical analysis and experiment on Eu reduction in alumina optical materials. Optical Materials Express, 2016, 6, 2404.	1.6	12
63	On the thermoluminescence properties and mechanism of LuPO ₄ :Eu sintered materials. RSC Advances, 2016, 6, 89019-89027.	1.7	8
64	On peculiarities of Eu ³⁺ and Eu ²⁺ luminescence in Sr ₂ GeO ₄ host. RSC Advances, 2016, 6, 91836-91845.	1.7	24
65	On the response of semitransparent nanoparticulated films of LuPO ₄ :Eu in poly-energetic X-ray imaging applications. Applied Physics A: Materials Science and Processing, 2016, 122, 1.	1.1	15
66	Microwave-assisted hydrothermal synthesis and spectroscopic characteristics of a Lu ₄ Hf ₃ O ₁₂ :Pr scintillator. RSC Advances, 2016, 6, 56101-56107.	1.7	2
67	A new photoluminescent feature in LuPO ₄ :Eu thermoluminescent sintered materials. RSC Advances, 2016, 6, 57920-57928.	1.7	18
68	Modifying the luminescence characteristics of Lu ₂ O ₃ :Eu large nanocrystals with polycarbonate host. Polymer Composites, 2016, 37, 1330-1334.	2.3	2
69	Relationship between structure and luminescence properties in Ce ³⁺ or Ce ³⁺ , Mn ²⁺ -doped garnet phosphors for use in white LEDs. Journal of Luminescence, 2016, 169, 862-867.	1.5	18
70	Thermoluminescent properties of HfO ₂ :Ti after exposure to X-rays. Radiation Measurements, 2016, 90, 140-144.	0.7	9
71	The effect of N ³⁺ substitution for O ²⁺ on optical properties of YAG:Ce ³⁺ phosphor. Journal of Alloys and Compounds, 2016, 668, 194-199.	2.8	19
72	SrS:Ce and LuPO ₄ :Eu Sintered Ceramics: Old Phosphors with New Functionalities. ECS Journal of Solid State Science and Technology, 2016, 5, R3078-R3088.	0.9	16

#	ARTICLE	IF	CITATIONS
73	Controllable synthesis of nanoscale YPO ₄ :Eu ³⁺ in ionic liquid. Journal of Luminescence, 2016, 169, 868-873.	1.5	17
74	On the synthesis of LuAG:Ce fine powders by molten salts methods and spectroscopic properties of the products. Journal of Luminescence, 2016, 169, 838-843.	1.5	10
75	Ce ³⁺ to Mn ²⁺ energy transfer in Sr ₃ Y ₂ Ge ₃ O ₁₂ :Ce ³⁺ , Mn ²⁺ garnet phosphor. Journal of Alloys and Compounds, 2015, 653, 636-642.	2.8	28
76	Preparation and imaging performance of nanoparticulated LuPO ₄ :Eu semitransparent films under x-ray radiation. , 2015, , .		0
77	Nd ³⁺ dopant influence on the structural and spectroscopic properties of microcrystalline La ₂ Mo ₂ O ₉ molybdate. Optical Materials, 2015, 41, 21-31.	1.7	32
78	Photoluminescent Properties of Monoclinic HfO ₂ :Ti Sintered Ceramics in 16â€“300 K. Journal of Physical Chemistry C, 2015, 119, 5026-5032.	1.5	15
79	Cooperative energy transfer in Yb ³⁺ â€“Tb ³⁺ co-doped CaAl ₄ O ₇ upconverting phosphor. Materials Chemistry and Physics, 2015, 156, 220-226.	2.0	16
80	Controlled synthesis of the monoclinic and orthorhombic polymorphs of Sr ₂ SiO ₄ activated with Ce ³⁺ or Eu ²⁺ . RSC Advances, 2015, 5, 104441-104450.	1.7	15
81	Anomalous Red and Infrared Luminescence of Ce ³⁺ Ions in SrS:Ce Sintered Ceramics. Journal of Physical Chemistry C, 2015, 119, 27649-27656.	1.5	14
82	Photo- and radioluminescent properties of undoped and Bi-doped Lu ₂ WO ₆ powders at 10â€“300K. Journal of Luminescence, 2015, 160, 50-56.	1.5	16
83	Synthesis and spectroscopic investigations of Sr ₂ Y ₈ (SiO ₄) ₆ O ₂ :Eu ²⁺ ,Eu ³⁺ phosphor for white LEDs. Journal of Luminescence, 2015, 158, 65-69.	1.5	52
84	Lu ₂ O ₃ :Pr,Hf Storage Phosphor: Compositional and Technological Issues. Materials, 2014, 7, 157-169.	1.3	14
85	Flux-Aided Synthesis of Lu ₂ O ₃ and Lu ₂ O ₃ :Euâ€“Single Crystal Structure, Morphology Control and Radioluminescence Efficiency. Materials, 2014, 7, 7059-7072.	1.3	29
86	Imaging performance of a thin Lu ₂ O ₃ :Eu nanophosphor scintillating screen coupled to a high resolution CMOS sensor under X-ray radiographic conditions: comparison with Gd ₂ O ₂ S:Eu conventional phosphor screen. , 2014, , .		1
87	Energy Recovery from Lu ₂ O ₃ :Tb,Hf Ceramic Storage Phosphors. Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences, 2014, 69, 165-170.	0.3	10
88	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> Scintillator. Journal of the American Ceramic Society, 2014, 97, 1595-1601.	1.7	27
89	Light emission efficiency and imaging performance of Lu ₂ O ₃ :Eu nanophosphor under X-ray radiography conditions: Comparison with Gd ₂ O ₂ S:Eu. Journal of Luminescence, 2014, 151, 229-234.	1.5	41
90	X-ray luminescence efficiency and detector quantum gain of LuPO ₄ :Eu nanophosphor. Physica Medica, 2014, 30, e96.	0.4	1

#	ARTICLE	IF	CITATIONS
91	Effect of charge compensation on up-conversion and UV excited luminescence of Eu ³⁺ in Yb ³⁺ -doped calcium aluminate CaAl ₄ O ₇ . Materials Chemistry and Physics, 2014, 147, 304-310.	2.0	21
92	Managing the Properties of Lu ₂ O ₃ :Tb,Hf Storage Phosphor by Means of Fabrication Conditions. Journal of Physical Chemistry C, 2013, 117, 26921-26928.	1.5	28
93	Infrared and cooperative luminescence in Yb ³⁺ doped calcium aluminate CaAl ₄ O ₇ . Journal of Luminescence, 2013, 143, 503-509.	1.5	26
94	Light emission efficiency of Lu ₂ O ₃ :Eu nanophosphor scintillating screen under x-ray radiographic conditions. Proceedings of SPIE, 2013, , .	0.8	1
95	High pressure and time-resolved luminescence spectra of Ca ₃ Y ₂ (SiO ₄) ₃ doped with Eu ²⁺ and Eu ³⁺ . Journal of Physics Condensed Matter, 2013, 25, 025603.	0.7	20
96	The bright side of defects: Chemistry and physics of persistent and storage phosphors. Journal of Luminescence, 2013, 133, 51-56.	1.5	18
97	Traps Formation and Characterization in Long-Term Energy Storing Lu ₂ O ₃ :Pr,Hf Luminescent Ceramics. Journal of Physical Chemistry C, 2013, 117, 11449-11458.	1.5	37
98	Inhomogeneity of donor doping in SrTiO ₃ substrates studied by fluorescence-lifetime imaging microscopy. Applied Physics Letters, 2013, 103, .	1.5	17
99	Thermoluminescence characteristics of Lu ₂ O ₃ :Pr,Hf red emitting storage phosphor. , 2012, , .		0
100	Spectroscopic Characterization of Ca ₃ Y ₂ Si ₃ O ₁₂ :Eu ²⁺ ,Eu ³⁺ Powders in VUV-UV-vis Region. Journal of Physical Chemistry C, 2012, 116, 25493-25503.	1.5	54
101	Search for ultraviolet luminescence of soil particles at the Phoenix landing site, Mars. Planetary and Space Science, 2012, 70, 134-147.	0.9	8
102	Modeling Luminescent Properties of HfO ₂ :Eu Powders with Li, Ta, Nb, and V Codopants. Journal of Physical Chemistry C, 2012, 116, 6409-6419.	1.5	26
103	Effect of Na ⁺ co-dopant and activator concentration on luminescent properties of CaGa ₄ O ₇ :Eu ³⁺ . Journal of Luminescence, 2012, 132, 2879-2884.	1.5	16
104	Characterization of afterglow-related spectroscopic effects in vacuum sintered Tb ³⁺ , Sr ²⁺ co-doped Lu ₂ O ₃ ceramics. Optical Materials, 2012, 35, 240-243.	1.7	13
105	The effect of charge compensation by means of Na ⁺ ions on the luminescence behavior of Sm ³⁺ -doped CaAl ₄ O ₇ phosphor. Journal of Luminescence, 2012, 132, 826-831.	1.5	38
106	Studying the luminescence efficiency of Lu ₂ O ₃ :Eu nanophosphor material for digital X-ray imaging applications. Applied Physics A: Materials Science and Processing, 2012, 106, 131-136.	1.1	27
107	Highly doped alkaline earth nanofluorides synthesized from ionic liquids. Optical Materials, 2011, 34, 336-340.	1.7	17
108	Ionic Liquid-based Synthesis: A Low-Temperature Route to Nanophosphates. ChemSusChem, 2011, 4, 595-598.	3.6	27

#	ARTICLE	IF	CITATIONS
109	Luminescence of Tb-doped Ca ₃ Y ₂ (Si ₃ O ₉) ₂ oxide upon UV and VUV synchrotron radiation excitation. Journal of Solid State Chemistry, 2011, 184, 1707-1714.	1.4	22
110	Luminescence properties of Y ₃ Al ₅ O ₁₂ :Ce nanoceramics. Journal of Luminescence, 2011, 131, 17-21.	1.5	45
111	Multicolor Luminescence from Ca ₃ Y ₂ (Si ₄ O ₉) ₃ :Eu ²⁺ ,Eu ³⁺ Material. Materials Research Society Symposia Proceedings, 2011, 1342, 9.	0.1	3
112	Size-dependent luminescence in Y ₂ Si ₂ O ₇ nanoparticles doped with Ce ³⁺ ions. Applied Physics A: Materials Science and Processing, 2010, 99, 871-877.	1.1	19
113	BaHfO ₃ :Ce sintered ceramic scintillators. Radiation Measurements, 2010, 45, 386-388.	0.7	20
114	Lu ₂ O ₃ :Tb,Hf storage phosphor. Radiation Measurements, 2010, 45, 490-492.	0.7	21
115	White colour emission from BaHfO ₃ :Eu phosphor. Radiation Measurements, 2010, 45, 621-623.	0.7	14
116	Monoclinic HfO ₂ :Eu X-ray phosphor. Radiation Measurements, 2010, 45, 493-496.	0.7	25
117	Fabrication and spectroscopic properties of nanocrystalline La ₂ Hf ₂ O ₇ :Pr. Radiation Measurements, 2010, 45, 432-434.	0.7	22
118	Optical properties of Eu ³⁺ -doped CaAl ₄ O ₇ synthesized by the Pechini method. Optical Materials, 2010, 32, 1117-1122.	1.7	22
119	Preparation, structural and spectroscopic studies of (Y _x Lu _{1-x}) ₂ O ₃ :Eu ³⁺ nanopowders. Optical Materials, 2010, 32, 1612-1617.	1.7	15
120	Afterglow Luminescence of Lu ₂ O ₃ :Eu Ceramics Synthesized at Different Atmospheres. Journal of Physical Chemistry C, 2010, 114, 4215-4220.	1.5	48
121	Forcing Eu ³⁺ into Different Positions in the BaHfO ₃ Host and Its Spectroscopic Consequences. Chemistry of Materials, 2010, 22, 4652-4659.	3.2	25
122	Radioluminescence and photoluminescence of hafnia-based Eu-doped phosphors. Optical Materials, 2009, 31, 1764-1767.	1.7	21
123	Effect of Mg ²⁺ and Ti ^{IV} doping on the luminescence of Y ₂ O ₃ :Eu ³⁺ . Journal of Luminescence, 2009, 129, 1661-1663.	1.5	6
124	Intrinsic and Ce ³⁺ -related luminescence of YAG and YAG:Ce single crystals, single crystalline films and nanopowders. Optical Materials, 2009, 31, 1845-1848.	1.7	23
125	Effect of Mg ²⁺ and Ti ^{IV} doping on the luminescence of Y ₂ O ₂ S:Eu ³⁺ . Optical Materials, 2009, 31, 1791-1793.	1.7	35
126	Spectroscopic Properties of Persistent Luminescence Phosphors: Lu ₂ O ₃ :Tb ³⁺ ,M ²⁺ (M = Ca, Sr, Ba). Journal of Physical Chemistry C, 2009, 113, 20493-20498.	1.5	65

#	ARTICLE	IF	CITATIONS
127	Structural and spectroscopic properties of BaHfO ₃ : Eu ³⁺ – the issue of the dopant location in the host lattice. Zeitschrift für Kristallographie, Supplement, 2009, 2009, 367-374.	0.5	13
128	Analytical techniques in provenance determination of archaeological objects from Lower Silesia. Journal of Molecular Structure, 2008, 887, 41-47.	1.8	8
129	New fabrication procedure of Y ₂ SiO ₅ :Ce and its structural and spectroscopic characterization. Journal of Alloys and Compounds, 2008, 451, 286-289.	2.8	23
130	Variation of emission color of Y ₃ Al ₅ O ₁₂ :Ce induced by thermal treatment at reducing atmosphere. Journal of Alloys and Compounds, 2008, 451, 582-585.	2.8	33
131	New synthesis procedure for nanoparticulate Lu ₂ O ₃ :Eu and spectroscopy of the product. Journal of Alloys and Compounds, 2008, 451, 591-594.	2.8	13
132	Size effects in the low temperature spectroscopy of Lu ₂ O ₃ nanopowders. Optical Materials, 2008, 31, 241-246.	1.7	9
133	Thermoluminescence and Kinetics of Persistent Luminescence of Vacuum-Sintered Tb ³⁺ -Doped and Tb ³⁺ , Ca ²⁺ -Codoped Lu ₂ O ₃ Materials. Chemistry of Materials, 2008, 20, 2252-2261.	3.2	221
134	Spectroscopic properties of Y ₃ TaO ₇ powders activated with Eu, Er and co-activated with Yb. Journal of Physics: Conference Series, 2007, 79, 012043.	0.3	2
135	Synthesis and up-converted luminescence of Y ₃ NbO ₇ :Er. Optical Materials, 2007, 30, 188-191.	1.7	20
136	Anomalous activity of Eu ³⁺ in S ₆ site of Lu ₂ O ₃ in persistent luminescence. Journal of Luminescence, 2007, 122-123, 335-338.	1.5	30
137	Synthesis, morphology and spectroscopy of cubic Y ₃ NbO ₇ :Er. Journal of Luminescence, 2007, 127, 523-530.	1.5	19
138	Fabrication of submicron-sized oxide phosphors and their spectroscopic properties. Radiation Measurements, 2007, 42, 894-898.	0.7	5
139	Low-Temperature Luminescence of Lu ₂ O ₃ :Eu Ceramics upon Excitation with Synchrotron Radiation in the Vicinity of Band Gap Energy. Chemistry of Materials, 2006, 18, 2194-2199.	3.2	46
140	Short-range atomic order in the surface layer of sputter-deposited Al _{0.6} W _{0.4} thin film investigated using directional elastic peak electron spectroscopy. Journal of Non-Crystalline Solids, 2006, 352, 2811-2817.	1.5	2
141	Low temperature synthesis of YAG:Eu spheroidal monocrystalline submicron-sized particles. Journal of Luminescence, 2006, 119-120, 576-580.	1.5	7
142	Homogeneously precipitated Lu ₂ O ₃ :Eu nanocrystalline phosphor for X-ray detection. Sensors and Actuators B: Chemical, 2005, 109, 112-118.	4.0	41
143	Preparation of Nanocrystalline Lu ₂ O ₃ :Eu Phosphor via a Molten Salts Route.. ChemInform, 2005, 36, no.	0.1	0
144	Nano- and microcrystalline Lu ₂ O ₃ :Eu phosphors: variations in occupancy of C ₂ and S ₆ sites by Eu ³⁺ ions. Journal of Physics Condensed Matter, 2005, 17, 2597-2604.	0.7	38

#	ARTICLE	IF	CITATIONS
145	Microstructure and Spectroscopy of Lu ₂ O ₃ :Eu Prepared Using Various Synthesis Techniques. <i>Solid State Phenomena</i> , 2004, 99-100, 25-30.	0.3	5
146	Photo- and cathodoluminescence properties of Lu ₂ O ₃ :Tb ³⁺ nanocrystallites embedded in TiO ₂ films on silicon and quartz substrates. <i>Optical Materials</i> , 2004, 26, 129-132.	1.7	18
147	Radioluminescence of Lu ₂ O ₃ :Eu nanocrystalline powder and vacuum-sintered ceramic. <i>Radiation Measurements</i> , 2004, 38, 471-474.	0.7	29
148	Structural and spectroscopic characterization of Lu ₂ O ₃ :Eu nanocrystalline spherical particles. <i>Journal of Physics Condensed Matter</i> , 2004, 16, 6983-6994.	0.7	31
149	Spectroscopic properties of sintered BaMgAl ₁₀ O ₁₇ :Eu ²⁺ (BAM) translucent pellets. <i>Journal of Alloys and Compounds</i> , 2004, 380, 113-117.	2.8	11
150	Preparation of nanocrystalline Lu ₂ O ₃ :Eu phosphor via a molten salts route. <i>Journal of Alloys and Compounds</i> , 2004, 380, 118-122.	2.8	34
151	Comparison of spectroscopic properties of nanoparticulate Lu ₂ O ₃ :Eu synthesized using different techniques. <i>Journal of Alloys and Compounds</i> , 2004, 380, 123-129.	2.8	21
152	Structural and spectroscopic studies of Lu ₂ O ₃ /Eu ³⁺ nanocrystallites embedded in SiO ₂ sol-gel ceramics. <i>Journal of Physics and Chemistry of Solids</i> , 2003, 64, 111-119.	1.9	31
153	Analysis of the absorption and luminescence spectra of U ³⁺ :Cs ₂ NaYBr ₆ single crystals. <i>Chemical Physics</i> , 2003, 287, 365-375.	0.9	10
154	Quantum efficiency of europium emission from nanocrystalline powders of Lu ₂ O ₃ :Eu. <i>Journal of Physics Condensed Matter</i> , 2003, 15, 5145-5155.	0.7	48
155	Spectroscopy and Structure of Eu-Doped Nanostructured Lu ₂ O ₃ . <i>Radiation Effects and Defects in Solids</i> , 2003, 158, 319-324.	0.4	2
156	Crystal-field analysis of Eu ³⁺ in Lu ₂ O ₃ . <i>Journal of Physics Condensed Matter</i> , 2003, 15, 2169-2181.	0.7	25
157	Properties of Tb-doped vacuum-sintered Lu ₂ O ₃ storage phosphor. <i>Journal of Applied Physics</i> , 2003, 94, 1318-1324.	1.1	49
158	Cathodoluminescence of Lu ₂ O ₃ :Tb. <i>Radiation Effects and Defects in Solids</i> , 2002, 157, 983-988.	0.4	5
159	Spectroscopic Properties of Lu ₂ O ₃ /Eu ³⁺ Nanocrystalline Powders and Sintered Ceramics. <i>Journal of Physical Chemistry B</i> , 2002, 106, 3805-3812.	1.2	108
160	Analysis of Eu ³⁺ emission from different sites in Lu ₂ O ₃ . <i>Journal of Alloys and Compounds</i> , 2002, 341, 381-384.	2.8	45
161	Spectroscopy of Eu-doped Lu ₂ O ₃ -based X-ray phosphor. <i>Journal of Alloys and Compounds</i> , 2002, 341, 385-390.	2.8	67
162	Sintering properties of urea-derived Lu ₂ O ₃ -based phosphors. <i>Journal of Alloys and Compounds</i> , 2002, 341, 391-394.	2.8	36

#	ARTICLE	IF	CITATIONS
163	Size effects on optical properties of Lu ₂ O ₃ :Eu ³⁺ nanocrystallites. Journal of Alloys and Compounds, 2002, 344, 332-336.	2.8	41
164	Concentration dependence of energy transfer between Eu ³⁺ ions occupying two symmetry sites in Lu ₂ O ₃ . Journal of Physics Condensed Matter, 2002, 14, 5637-5650.	0.7	81
165	Preparation, X-ray analysis and spectroscopic investigation of nanostructured Lu ₂ O ₃ :Tb. Journal of Alloys and Compounds, 2001, 323-324, 8-12.	2.8	56
166	Luminescence of Lu ₂ O ₃ :Tm ³⁺ nanoparticles. Materials Research Society Symposia Proceedings, 2001, 667, 1.	0.1	4
167	Investigation of nanostructured Lu ₂ O ₃ :Tb. , 2001, 4413, 176.		4
168	On the reasons for low luminescence efficiency in combustion-made Lu ₂ O ₃ :Tb. Optical Materials, 2001, 16, 445-452.	1.7	86
169	X-RAY INVESTIGATION OF LUTETIUM OXIDE NANOSTRUCTURED MATERIAL. , 2001, , .		0
170	Temperature dependence of host-associated luminescence from YAG transparent ceramic material. Journal of Luminescence, 2000, 90, 89-99.	1.5	27
171	Up-conversion in elpasolite crystals doped with U ³⁺ . Chemical Physics Letters, 2000, 332, 308-312.	1.2	19
172	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
173	Temperature dependence of Ce-emission kinetics in YAG:Ce optical ceramic. Journal of Alloys and Compounds, 2000, 300-301, 495-499.	2.8	33
174	Vibrational dynamics and nature of the double halide bridges for the example of solid A ₂ UX ₅ uranium(III) ternary systems (A=K, Rb; X=Cl, Br and I). Vibrational Spectroscopy, 1999, 21, 111-126.	1.2	5
175	Host-associated luminescence from YAG optical ceramics under gamma and optical excitation. Journal of Luminescence, 1998, 78, 121-134.	1.5	39
176	Infrared spectroscopy of LuAlO ₃ :Ce a useful tool to determine Ce concentration. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 1998, 54, 1763-1769.	2.0	27
177	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
178	Ce-Emission from Rare Earth Tantalate Hosts. Materials Science Forum, 1997, 239-241, 267-270.	0.3	3
179	Scintillation Properties of YAG: Ce Optical Ceramics. Materials Science Forum, 1997, 239-241, 257-260.	0.3	3
180	Luminescence properties of Ce-activated YAG optical ceramic scintillator materials. Journal of Luminescence, 1997, 75, 193-203.	1.5	178

#	ARTICLE	IF	CITATIONS
181	Lutetium aluminate: spectroscopic and scintillation properties. IEEE Transactions on Nuclear Science, 1996, 43, 1316-1320.	1.2	33
182	Emission spectra of U ³⁺ in Cs ₂ NaYBr ₆ . Journal of Alloys and Compounds, 1995, 225, 111-114.	2.8	7
183	Synthesis, crystal structure, magnetism, and absorption spectra of A ₂ UX ₅ Type Halides (A = K, Rb; X =) Tj ETQq1 1 0.784314 rgBT /Over 0.6 16	0.6	16

184