List of Publications by Year in descending order

123 papers	1,661 citations	331670 21 h-index	395702 33 g-index
130 all docs	130 docs citations	130 times ranked	1110 citing authors

#	Article	IF	Citations
1	Deflection Modelling of MEMS Cantilever Beam Through Collocation Method Taking B-Splinesas Approximating Functions. International Journal of Social Ecology and Sustainable Development, 2022, 13, 1-15.	0.2	0
2	Green Light Emission in Terbium Doped Lanthanum Zirconate Powders. Analytical Chemistry Letters, 2022, 12, 233-243.	1.0	3
3	Translational Jump-Diffusion of Hydroxide Ion in Anion Exchange Membrane: Deciphering the Nature of Vehicular Diffusion. Journal of Physical Chemistry B, 2022, 126, 2430-2440.	2.6	6
4	Thermoluminescence and kinetic parameters of gamma-exposed Y2Zr2O7:Gd3+ phosphor. Optik, 2022, 260, 169082.	2.9	1
5	Evaporation of confined droplet between parallel chips with varying gap at room temperature. Journal of Micromechanics and Microengineering, 2022, 32, 075001.	2.6	1
6	Degradation of rare-earth-activated phosphors. , 2022, , 137-145.		1
7	Rare-earth-activated phosphors for energy-efficient solar cell. , 2022, , 321-338.		0
8	Thermoluminescence glow curve analysis and proposed model for rare-earth activated some oxide-based phosphors for dosimetric application. , 2022, , 299-327.		1
9	Rare-earth-activated phosphor for laser lighting. , 2022, , 403-407.		0
10	Influence of excitation wavelength on the down-conversion photoluminescence characteristics of Gd2O3:Er3+-Yb3+ phosphor. Inorganic Chemistry Communication, 2022, , 109736.	3.9	4
11	Effect of Tb3+ ion concentration on photoluminescence and thermoluminescence studies of Y4Al2O9 phosphor. Optik, 2021, 226, 165926.	2.9	13
12	Mechanoluminescence Induced in Rare Earth Activated Cementatious Materials. Lecture Notes in Electrical Engineering, 2021, , 481-490.	0.4	0
13	Breakdown of the Stokesâ€“Einstein relation in supercooled water: the jump-diffusion perspective. Physical Chemistry Chemical Physics, 2021, 23, 19964-19986.	2.8	16
14	Enhancement of photoluminescence/phosphorescence properties of Eu3â€‰+-doped Gd2Zr2O7 phosphor. , 2021, , 259-266.		1
15	Spectroscopic parameters of red emitting Eu3â€‰+-doped La2Ba3B4O12 phosphor for display and forensic applications. , 2021, , 169-180.		1
16	Mechanoluminescence behaviour on Eu2+/Dy3+ activated SrAl2O4 phosphor. IOP Conference Series: Materials Science and Engineering, 2021, 1120, 012004.	0.6	0
17	Modeling of thermoluminescence in SrY2O4:Eu3+and their concentration quenching effect. Optik, 2021, 232, 166607.	2.9	8
18	White light emission and thermoluminescence studies of Dy³⁺â€activated hardystonite (Ca₂ZnSi₂O₇) phosphor. Luminescence, 2021, 36, 1507-1512.	2.9	3

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19	An Intracellular Pathway Controlled by the N-terminus of the Pump Subunit Inhibits the Bacterial KdpFABC Ion Pump in High K+ Conditions. Journal of Molecular Biology, 2021, 433, 167008.	4.2	3
20	Composite nature of thermo luminescence studies in Dy3+ activated Sr2ZnSi2O7 phosphor. Optik, 2021, 241, 166904.	2.9	0
21	Synthesis, Thermoluminescence and Photoluminescence Study of Gd3+ Doped La2Zr2O7 Phosphor. Analytical Chemistry Letters, 2021, 11, 719-728.	1.0	0
22	Morphological and Optical Characterization of Colored Nanotubular Anodic Titanium Oxide Made in an Ethanol-Based Electrolyte. Materials, 2021, 14, 6992.	2.9	5
23	Determination of spectroscopic parameters and thermoluminescence studies of Dy³⁺-activated Ba₂ZnSi₂O₇ phosphor. Radiation Effects and Defects in Solids, 2021, 176, 1116-1128.	1.2	0
24	Thermoluminescence glow curve analysis and trap parameters calculation of UV-induced La2Zr2O7 phosphor doped with gadolinium. Journal of Materials Science: Materials in Electronics, 2020, 31, 1936-1944.	2.2	10
25	Breakdown of the Stokesâ€“Einstein Relation in Supercooled Water/Methanol Binary Mixtures: Explanation Using the Translational Jump-Diffusion Approach. Journal of Physical Chemistry B, 2020, 124, 10398-10408.	2.6	18
26	Thermoluminescence Studies of Î² and Î³-Irradiated Geological Materials for Environment Monitoring. Journal of Fluorescence, 2020, 30, 819-825.	2.5	5
27	Effect of Eu3+ on optical and energy bandgap of SrY2O4 nanophosphors for FED applications. Optik, 2020, 208, 164533.	2.9	18
28	Phosphors in Role of Magnetic Resonance, Medical Imaging and Drug Delivery Applications: A Review. , 2020, , 131-152.		1
29	Synthesis and Luminescence Characteristics of Europium Doped Gadolinium Based Oxide Phosphors for Display and Lighting Applications. , 2020, , 163-185.		3
30	Cholesterol binding to the sterol-sensing region of Niemann Pick C1 protein confines dynamics of its N-terminal domain. PLoS Computational Biology, 2020, 16, e1007554.	3.2	12
31	Serine phosphorylation regulates the P-type potassium pump KdpFABC. ELife, 2020, 9, .	6.0	16
32	Exploration of Thermoluminescence and Photoluminescence Properties of Eu³⁺ Doped La₂Zr₂O₇ Phosphors. Analytical Chemistry Letters, 2020, 10, 862-875.	1.0	2
33	Title is missing!. , 2020, 16, e1007554.		0
34	Title is missing!. , 2020, 16, e1007554.		0
35	Title is missing!. , 2020, 16, e1007554.		0
36	Title is missing!. , 2020, 16, e1007554.		0

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37	Decoupling of Translational Diffusion from the Viscosity of Supercooled Water: Role of Translational Jump Diffusion. Journal of Physical Chemistry B, 2019, 123, 7178-7189.	2.6	36
38	Understanding the Origin of the Breakdown of the Stokesâ€“Einstein Relation in Supercooled Water at Different Temperatureâ€“Pressure Conditions. Journal of Physical Chemistry B, 2019, 123, 10089-10099.	2.6	31
39	Spectral modifications and enhancement of red light yield tailored by Y3+ incorporation in the SrGd1.94Eu0.06O4 system. Journal of Materials Science: Materials in Electronics, 2019, 30, 20665-20672.	2.2	1
40	Influence of glycerol on the cooling effect of pair hydrophobicity in water: relevance to proteinsâ€™ stabilization at low temperature. Physical Chemistry Chemical Physics, 2019, 21, 800-812.	2.8	14
41	Influence of Cerium Concentration On Electroluminescence Property of SrZrO3:Ce3+ Phosphor. Materials Today: Proceedings, 2019, 18, 4392-4397.	1.8	0
42	A single K+-binding site in the crystal structure of the gastric proton pump. ELife, 2019, 8, .	6.0	22
43	Thermodynamic and magnetic properties of Fe doped CaAl12O19 material prepared by combustion route and post-heat treatment. Journal of Materials Science: Materials in Electronics, 2018, 29, 6579-6585.	2.2	2
44	Green emitting Tb doped LiBaB9O15 phosphors. Optik, 2018, 156, 677-683.	2.9	12
45	Green emission from Tb3+-doped CaLaAl3O7 phosphor â€“ A photoluminescence study. Optik, 2018, 164, 407-413.	2.9	13
46	Interaction of N-terminal peptide analogues of the Na+,K+-ATPase with membranes. Biochimica Et Biophysica Acta - Biomembranes, 2018, 1860, 1282-1291.	2.6	26
47	A review reports on rare earth activated AZrO3 (A = Ba, Ca, Sr) phosphors for display and sensing applications. Optik, 2018, 157, 365-381.	2.9	36
48	K+ binding and proton redistribution in the E2P state of the H+, K+-ATPase. Scientific Reports, 2018, 8, 12732.	3.3	13
49	Importance of Solventsâ€™ Translationalâ€“Rotational Coupling for Translational Jump of a Small Hydrophobic Solute in Supercooled Water. Journal of Physical Chemistry B, 2018, 122, 7569-7583.	2.6	16
50	Estimating the Lipophobic Contributions in Model Membranes. Journal of Physical Chemistry B, 2017, 121, 2111-2120.	2.6	8
51	Synthesis and Characterization of Europium Doped Zirconium Based Phosphor for Display Applications. Reviews in Fluorescence, 2017, , 155-184.	0.5	5
52	Luminescence and structural properties of Gd 2 SiO 5 :Eu 3+ phosphors synthesized from the modified solid state method. Ceramics International, 2017, 43, 9084-9091.	4.8	20
53	TL glow curve analysis and kinetics of UV, Î² and Î³ irradiated YBO3:Eu3+ and Y2O3:Eu3+ phosphors. Journal of Materials Science: Materials in Electronics, 2017, 28, 13565-13578.	2.2	6
54	Intense visible light emission from dysprosium (Dy3+) doped barium titanate (BaTiO3) phosphor and its thermoluminescence study. Journal of Materials Science: Materials in Electronics, 2017, 28, 13690-13697.	2.2	12

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55	Photoluminescence decay curve analysis of some rare earth doped CeO2 phosphors. Journal of Materials Science: Materials in Electronics, 2017, 28, 17271-17277.	2.2	8
56	Kinetic and TL glow curve analysis of UV-, Î²- and Î³-irradiated natural limestone collected from Chunkatta mines. Radiation Effects and Defects in Solids, 2017, 172, 866-877.	1.2	9
57	Luminescence studies and infrared emission of erbiumâ€doped calcium zirconate phosphor. Luminescence, 2016, 31, 837-842.	2.9	11
58	Optical Studies of Erbium and Ytterbium Doped Gd₂Zr₂O₇Phosphor for Display and Optical Communication Applications. Journal of Display Technology, 2016, 12, 1224-1228.	1.2	13
59	Structural and optical analysis on europium doped AZrO3 (A=Ba, Ca, Sr) phosphor for display devices application. AIP Conference Proceedings, 2016, , .	0.4	5
60	Effect of variable cerium concentration on photoluminescence behaviour in ZrO2 phosphor synthesized by combustion synthesis method. AIP Conference Proceedings, 2016, , .	0.4	0
61	Liquid mediated direct bonding and bond propagation. , 2016, , .		1
62	Mechano and photoluminescence spectra of cadmium sulphide and cadmium selenide doped phosphors. Optik, 2016, 127, 7958-7966.	2.9	12
63	Mechanoluminescence Study of Europium Doped CaZrO3 Phosphor. Journal of Fluorescence, 2016, 26, 1309-1315.	2.5	9
64	Fine Pitch Rapid Heat Self-Aligned Assembly and Liquid-Mediated Direct Bonding of Si Chips. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2016, 6, 946-953.	2.5	4
65	UV Induced Thermoluminescence and Photoluminescence Studies of Sm³⁺Doped LaAlO₃Phosphor. Journal of Display Technology, 2016, 12, 928-932.	1.2	15
66	Near UV-Blue Emission From Cerium Doped Zirconium Dioxide Phosphor for Display and Sensing Applications. Journal of Display Technology, 2016, 12, 933-937.	1.2	9
67	Violet blue emission and thermoluminescence glow curve analysis of Gd2SiO5:Ce3+ phosphor. Optik, 2016, 127, 6243-6252.	2.9	10
68	Early age shrinkage pattern of concrete on replacement of fine aggregate with industrial by-product. Journal of Radiation Research and Applied Sciences, 2016, 9, 386-391.	1.2	12
69	Estimation of spectroscopic parameters and colour purity of the red-light-emitting YBa3B9O18 phosphor: Juddâ€“Ofelt approach. Journal of Luminescence, 2016, 180, 169-176.	3.1	21
70	Project monitoring system for big data. , 2016, , .		1
71	Luminescence studies on Eu2+ and Tb3+ doped Ca2MgSi2O7 phosphors. Journal of Materials Science: Materials in Electronics, 2016, 27, 3227-3233.	2.2	4
72	Synthesis and Luminescence Property of <formula formulatype="inline"><tex Notation="TeX">${hbox{Gd}}_{2}{hbox{SiO}}_{5}$</tex> </formula> Phosphor. Journal of Display Technology, 2016, 12, 66-70.	1.2	8

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73	PL Properties of Sr2CeO4 With Eu3+ and Dy3+ for Solid State Lighting Prepared by Precipitation Method. Journal of Fluorescence, 2016, 26, 791-806.	2.5	12
74	Estimation of Color Purity and Trapping Parameters for Samarium Doped BaTiO Phosphor. Journal of Display Technology, 2016, 12, 567-572.	1.2	4
75	Luminescence Studies on Ba Doped With Eu and Tm Phosphors. Journal of Display Technology, 2016, 12, 460-465.	1.2	6
76	Photoluminescence Characteristics of Dysprosium Doped CeO Phosphor for White Light Emission. Journal of Display Technology, 2016, 12, 506-512.	1.2	14
77	Study of formation of deep trapping mechanism by UV, beta and gamma irradiated Eu 3+ activated SrY 2 O 4 and Y 4 Al 2 O 9 phosphors. Applied Radiation and Isotopes, 2016, 110, 16-27.	1.5	22
78	White Light Emission by Dy3+ Doped Phosphor Matrices: A Short Review. Journal of Fluorescence, 2016, 26, 105-111.	2.5	72
79	Synthesis, structural characterization and thermoluminescence glow curve study of gadolinium-doped Y2O3 nanophosphor. Journal of Taibah University for Science, 2016, 10, 317-323.	2.5	3
80	UV ray-induced thermoluminescence study of Y2SiO5:Ce3+ phosphor. Research on Chemical Intermediates, 2016, 42, 2267-2284.	2.7	4
81	Thermoluminescence and Photoluminescence Study of Erbium Doped CaY2O4 Phosphor. Indian Journal of Materials Science, 2015, 2015, 1-5.	0.6	2
82	YAlO3:Ce3+ powders: Synthesis, characterization, thermoluminescence and optical studies. Superlattices and Microstructures, 2015, 85, 410-417.	3.1	12
83	TL glow curve analysis of UV, beta and gamma induced limestone collected from Amarnath holy cave. Journal of Radiation Research and Applied Sciences, 2015, 8, 126-135.	1.2	8
84	Fractoâ€mechanoluminescence induced by impulsive deformation of IIâ€“VI semiconductors. Luminescence, 2015, 30, 883-890.	2.9	12
85	Effect of annealing temperature on thermoluminescence glow curve for UV and gamma ray induced ZrO2:Ti phosphor. Journal of Radiation Research and Applied Sciences, 2015, 8, 1-10.	1.2	23
86	Structural and photoluminescence study of CeO2:Eu3+ phosphors. Optics and Spectroscopy (English) Tj ETQq0 0 0 rgBT /Overlock 10 T	0.6	2
87	Calculation of kinetic data and thermoluminescence studies of (Zn, Cd)S mixed phosphor. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2015, 118, 739-741.	0.6	0
88	Near UVâ€“blue emission from Ce doped Y2SiO5 phosphor. Materials Science in Semiconductor Processing, 2015, 31, 715-719.	4.0	43
89	Synthesis and luminescence study of BaZrO3:Eu3+ phosphor. Superlattices and Microstructures, 2015, 88, 262-270.	3.1	21
90	Effect of various cerium ion percentages on photoluminescence and themoluminescence study of CaY2O4 phosphor. Journal of Display Technology, 2015, , 1-1.	1.2	3

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91	Infrared spectroscopy and luminescence spectra of Yb3+ doped ZrO2 nanophosphor. Journal of Radiation Research and Applied Sciences, 2015, 8, 399-403.	1.2	17
92	High temperature solid state synthesis and photoluminescence behavior of Eu3+ doped GdAlO3 nanophosphor. Superlattices and Microstructures, 2015, 78, 116-124.	3.1	31
93	Synthesis, characterization, thermoluminescence and optical studies of Eu 3+ doped Y 2 SiO 5 phosphor. Superlattices and Microstructures, 2015, 77, 152-161.	3.1	35
94	Effect of europium doping levels on photoluminescence and thermoluminescence of strontium yttrium oxide phosphor. Materials Science in Semiconductor Processing, 2015, 31, 27-37.	4.0	56
95	Synthesis and characterization of Eu3+-doped Y2O3 phosphor. Research on Chemical Intermediates, 2015, 41, 401-408.	2.7	23
96	Luminescence studies on europium- and dysprosium-doped di-strontium magnesium silicate phosphor. Research on Chemical Intermediates, 2015, 41, 3699-3708.	2.7	6
97	Review of the preparation, characterization, and luminescence properties of Pr3+-doped CaTiO3 phosphors. Research on Chemical Intermediates, 2015, 41, 3597-3621.	2.7	19
98	Photoluminescence and thermoluminescence behavior of Gd doped Y2O3 phosphor. Optik, 2015, 126, 1-5.	2.9	46
99	Effect of europium concentration on photoluminescence and thermoluminescence behavior of Y2O3:Eu3+ phosphor. Research on Chemical Intermediates, 2015, 41, 4727-4739.	2.7	35
100	Photoluminescence and Thermoluminescence Investigation of Europium- and Dysprosium-Doped Dibarium Magnesium Silicate Phosphor. Spectroscopy Letters, 2015, 48, 179-183.	1.0	19
101	Effect of Eu3+ Concentration on Luminescence Studies of Y4Al2O9 Phosphor. Indian Journal of Materials Science, 2014, 2014, 1-8.	0.6	9
102	Synthesis and characterization of rare earth doped ZrO2 nanophosphors. AIP Conference Proceedings, 2014, , .	0.4	7
103	Down conversion luminescence behavior of Er and Yb doped Y2O3 phosphor. Journal of Radiation Research and Applied Sciences, 2014, 7, 601-606.	1.2	21
104	Room temperature and zero pressure high quality oxide direct bonding for 3D self-aligned assembly. , 2014, , .		2
105	Kinetics and thermoluminescence glow curve study of Ba2MgSi2O7:Eu3+, Dy3+. Research on Chemical Intermediates, 2014, 40, 2599-2604.	2.7	9
106	Thermoluminescence study, including the effect of heating rate, and chemical characterization of Amarnath stone collected from Amarnath Holy Cave. Research on Chemical Intermediates, 2014, 40, 531-536.	2.7	22
107	Kinetics and TL glow curve study of europium-activated strontium aluminate. Research on Chemical Intermediates, 2014, 40, 487-493.	2.7	4
108	Effect of Eu3+ concentration on photoluminescence and thermoluminescence behavior of YBO3:Eu3+ phosphor. Superlattices and Microstructures, 2014, 67, 156-171.	3.1	97

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109	Photoluminescence, trap states and thermoluminescence decay process study of Ca2MgSi2O7: Eu2+, Dy3+ phosphor. Bulletin of Materials Science, 2014, 37, 925-929.	1.7	24
110	Infrared spectroscopy and upconversion luminescence behaviour of erbium doped yttrium (III) oxide phosphor. Infrared Physics and Technology, 2014, 67, 537-541.	2.9	23
111	Optical behaviour of cadmium and mercury free eco-friendly lamp nanophosphor for display devices. Results in Physics, 2014, 4, 63-68.	4.1	13
112	Synthesis, characterization and luminescence behavior of ZrO2:Eu3+, Dy3+ with variable concentration of Eu and Dy doped Phosphor. Superlattices and Microstructures, 2014, 73, 38-53.	3.1	57
113	Review of the synthesis, characterization, and properties of LaAlO3 phosphors. Research on Chemical Intermediates, 2014, 40, 2737-2771.	2.7	34
114	A review report on medical imaging phosphors. Research on Chemical Intermediates, 2014, 40, 2837-2858.	2.7	21
115	Comparative study of ML and PL spectra of different impurity-doped (Zn, Cd)S mixed phosphors. Research on Chemical Intermediates, 2013, 39, 4337-4349.	2.7	11
116	Thermoluminescence and chemical characterization of natural calcite collected from Kodwa mines. Research on Chemical Intermediates, 2013, 39, 3689-3697.	2.7	34
117	Thermoluminescence studies of UV-irradiated Y2O3:Eu3+ doped phosphor. Research on Chemical Intermediates, 2013, 39, 3919-3923.	2.7	25
118	Synthesis and characterization of Eu3+ doped SrY2O4 phosphor. Optik, 2013, 124, 5585-5587.	2.9	55
119	Luminescence Studies of Eu³⁺ Doped Calcium Bromofluoride Phosphor. Research Letters in Physics, 2013, 2013, 1-5.	0.2	12
120	Effect of temperature on the ML of Au doped (Zn,Cd)S mixed phosphors. Chinese Chemical Letters, 2011, 22, 709-712.	9.0	16
121	Kinetics of TL Glow Peak of Limestone from Patharia of CG Basin (India). Journal of Minerals and Materials Characterization and Engineering, 2010, 09, 1101-1111.	0.4	15
122	Upconversion Luminescence Behaviour of Er3+/Yb3+ Doped MY2O4 (M=Ba, Ca, Sr) Phosphors. Advances in Chemical and Materials Engineering Book Series, 0, , 117-148.	0.3	1
123	Phosphors for Various Dosimetry Applications Derived by Different Synthesis Routes. Advances in Chemical and Materials Engineering Book Series, 0, , 53-84.	0.3	0