

Hc Swart

List of Publications by Year in descending order

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261
papers

8,420
citations

50170

46
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82410

72
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261
all docs

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docs citations

261
times ranked

6568
citing authors

#	ARTICLE	IF	CITATIONS
1	A review on the advancements in phosphor-converted light emitting diodes (pc-LEDs): Phosphor synthesis, device fabrication and characterization. <i>Progress in Materials Science</i> , 2020, 109, 100622.	16.0	373
2	Upconversion based temperature sensing ability of Er ³⁺ +Yb ³⁺ codoped SrWO ₄ : An optical heating phosphor. <i>Sensors and Actuators B: Chemical</i> , 2015, 209, 352-358.	4.0	355
3	Origin of the red emission in zinc oxide nanophosphors. <i>Materials Letters</i> , 2013, 101, 57-60.	1.3	255
4	Role of film thickness on the properties of ZnO thin films grown by sol-gel method. <i>Thin Solid Films</i> , 2013, 539, 161-165.	0.8	152
5	Enhanced upconversion and temperature sensing study of Er ³⁺ +Yb ³⁺ codoped tungsten tellurite glass. <i>Sensors and Actuators B: Chemical</i> , 2014, 202, 1305-1312.	4.0	152
6	Tunable and white emission from ZnO:Tb ³⁺ nanophosphors for solid state lighting applications. <i>Chemical Engineering Journal</i> , 2014, 255, 541-552.	6.6	146
7	Effect of annealing on the structural, morphological and photoluminescence properties of ZnO thin films prepared by spin coating. <i>Journal of Colloid and Interface Science</i> , 2014, 428, 8-15.	5.0	107
8	Effect of Eu doping on the photoluminescence properties of ZnO nanophosphors for red emission applications. <i>Applied Surface Science</i> , 2014, 308, 419-430.	3.1	105
9	Combustion synthesis and luminescence investigation of Na ₃ Al ₂ (PO ₄) ₃ :RE (RE = Ce ³⁺ , Eu ³⁺ and Mn ²⁺) phosphor. <i>Journal of Alloys and Compounds</i> , 2010, 492, 384-388.	2.8	102
10	Luminescent properties and X-ray photoelectron spectroscopy study of ZnAl ₂ O ₄ :Ce ³⁺ ,Tb ³⁺ phosphor. <i>Journal of Alloys and Compounds</i> , 2011, 509, 10115-10120.	2.8	93
11	Noble metal nanoparticles embedding into polymeric materials: From fundamentals to applications. <i>Advances in Colloid and Interface Science</i> , 2015, 226, 187-202.	7.0	89
12	Synthesis, spectral and surface investigation of NaSrBO ₃ : Sm ³⁺ phosphor for full color down conversion in LEDs. <i>Journal of Alloys and Compounds</i> , 2013, 554, 214-220.	2.8	84
13	Photoluminescence and phosphorescence properties of MAl ₂ O ₄ :Eu ²⁺ , Dy ³⁺ (M=Ca, Ba, Sr) phosphors prepared at an initiating combustion temperature of 500Å°C. <i>Physica B: Condensed Matter</i> , 2009, 404, 4440-4444.	1.3	83
14	Temperature-dependence on the structural, optical, and paramagnetic properties of ZnO nanostructures. <i>Applied Surface Science</i> , 2014, 293, 62-70.	3.1	82
15	Luminescence dynamics and investigation of Judd-Ofelt intensity parameters of Sm ³⁺ ion containing glasses. <i>Optical Materials</i> , 2017, 64, 171-178.	1.7	81
16	Review of rare earth activated blue emission phosphors prepared by combustion synthesis. <i>Renewable and Sustainable Energy Reviews</i> , 2015, 52, 596-612.	8.2	76
17	The oxidation of industrial FeCrMo steel. <i>Corrosion Science</i> , 2000, 42, 1725-1740.	3.0	74
18	Photocatalytic and biological applications of Ag and Au doped ZnO nanomaterial synthesized by combustion. <i>Vacuum</i> , 2018, 157, 508-513.	1.6	73

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19	Afterglow enhancement with In ³⁺ codoping in CaTiO ₃ :Pr ³⁺ red phosphor. Powder Technology, 2013, 237, 141-146.	2.1	72
20	Synthesis and characterization of Er ³⁺ -Yb ³⁺ doped ZnO upconversion nanoparticles for solar cell application. Journal of Alloys and Compounds, 2018, 766, 429-435.	2.8	72
21	In depth study on the notable room-temperature NO ₂ gas sensor based on CuO nanoplatelets prepared by sonochemical method: Comparison of various bases. Sensors and Actuators B: Chemical, 2018, 266, 761-772.	4.0	69
22	ZnS:Cu,Al,Au phosphor degradation under electron excitation. Applied Surface Science, 1997, 120, 9-14.	3.1	68
23	Effect of Br ⁺ ions on the structural, morphological and luminescent properties of ZnO/Si thin films. Applied Surface Science, 2013, 279, 472-478.	3.1	68
24	Surface, optical and photocatalytic properties of Rb doped ZnO nanoparticles. Applied Surface Science, 2020, 514, 145930.	3.1	68
25	Gas sensors based on CeO ₂ nanoparticles prepared by chemical precipitation method and their temperature-dependent selectivity towards H ₂ S and NO ₂ gases. Applied Surface Science, 2020, 505, 144356.	3.1	67
26	Influence of ultrasonication times on the tunable colour emission of ZnO nanophosphors for lighting applications. Ultrasonics Sonochemistry, 2014, 21, 1549-1556.	3.8	63
27	Effect of Eu ³⁺ on the structure, morphology and optical properties of flower-like ZnO synthesized using chemical bath deposition. Journal of Luminescence, 2014, 147, 85-89.	1.5	62
28	Swift heavy ion irradiation induced modification in structural, optical and luminescence properties of Y ₂ O ₃ :Tb ³⁺ nanophosphor. Journal of Luminescence, 2014, 146, 162-173.	1.5	62
29	Selective detection of CO at room temperature with CuO nanoplatelets sensor for indoor air quality monitoring manifested by crystallinity. Applied Surface Science, 2019, 466, 545-553.	3.1	61
30	Generation of white-light from Dy ³⁺ doped Sr ₂ SiO ₄ phosphor. Physica B: Condensed Matter, 2014, 439, 126-129.	1.3	60
31	Effects of Cr ³⁺ mol% on the structure and optical properties of the ZnAl ₂ O ₄ :Cr ³⁺ nanocrystals synthesized using sol-gel process. Ceramics International, 2015, 41, 6776-6783.	2.3	60
32	Enhanced UVB emission and analysis of chemical states of Ca ₅ (PO ₄) ₃ OH:Gd ³⁺ ,Pr ³⁺ phosphor prepared by co-precipitation. Journal of Physics and Chemistry of Solids, 2014, 75, 998-1003.	1.9	58
33	Embedded plasmonic nanostructures: synthesis, fundamental aspects and their surface enhanced Raman scattering applications. International Reviews in Physical Chemistry, 2016, 35, 353-398.	0.9	58
34	Role of silver doping on the defects related photoluminescence and antibacterial behaviour of zinc oxide nanoparticles. Colloids and Surfaces B: Biointerfaces, 2017, 159, 191-199.	2.5	58
35	Potential of Sm ³⁺ doped LiSrVO ₄ nanophosphor to fill amber gap in LEDs. Physica B: Condensed Matter, 2018, 535, 221-226.	1.3	57
36	A near-UV-converted LiMgBO ₃ :Dy ³⁺ nanophosphor: Surface and spectral investigations. Applied Surface Science, 2015, 329, 40-46.	3.1	53

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37	Infrared emission spectroscopy and upconversion of ZnO-Li ₂ O-Na ₂ O-P ₂ O ₅ glasses doped with Nd ³⁺ ions. <i>Journal of Non-Crystalline Solids</i> , 2017, 457, 157-163.	1.5	53
38	A comparative study on structural, morphological and luminescence characteristics of Zn ₃ (VO ₄) ₂ phosphor prepared via hydrothermal and citrate-gel combustion routes. <i>Physica B: Condensed Matter</i> , 2012, 407, 1485-1488.	1.3	52
39	Luminescence of Ce doped MgAl ₂ O ₄ prepared by the combustion method. <i>Physica B: Condensed Matter</i> , 2014, 439, 109-114.	1.3	52
40	The role of oxygen and titanium related defects on the emission of TiO ₂ :Tb ³⁺ nano-phosphor for blue lighting applications. <i>Optical Materials</i> , 2015, 46, 510-516.	1.7	52
41	The difference in degradation behaviour of ZnS:Cu,Al,Au and ZnS:Ag,Cl phosphor powders. <i>Applied Surface Science</i> , 1999, 140, 63-69.	3.1	51
42	Enhanced luminescence and degradation of SiO ₂ :Ce,Tb powder phosphors prepared by a sol-gel process. <i>Journal of Physics and Chemistry of Solids</i> , 2006, 67, 1749-1753.	1.9	50
43	Investigations on the low voltage cathodoluminescence stability and surface chemical behaviour using Auger and X-ray photoelectron spectroscopy on LiSrBO ₃ :Sm ³⁺ phosphor. <i>Materials Research Bulletin</i> , 2011, 46, 987-994.	2.7	50
44	Spectroscopic studies of Sm ³⁺ /Dy ³⁺ co-doped lithium boro-silicate glasses. <i>Journal of Non-Crystalline Solids</i> , 2016, 438, 49-58.	1.5	50
45	Transparent conducting ZnO-CdO mixed oxide thin films grown by the sol-gel method. <i>Journal of Colloid and Interface Science</i> , 2017, 487, 378-387.	5.0	50
46	Defects induced enhancement of antifungal activities of Zn doped CuO nanostructures. <i>Applied Surface Science</i> , 2021, 560, 150026.	3.1	50
47	Resolution of Eu ²⁺ asymmetrical emission peak of SrAl ₂ O ₄ :Eu ²⁺ , Dy ³⁺ phosphor by cathodoluminescence measurements. <i>Materials Letters</i> , 2008, 62, 3192-3194.	1.3	47
48	Luminescence investigations of Ce ³⁺ doped CaS nanophosphors. <i>Journal of Alloys and Compounds</i> , 2010, 492, L8-L12.	2.8	47
49	Influence of Ag, Au and Pd noble metals doping on structural, optical and antimicrobial properties of zinc oxide and titanium dioxide nanomaterials. <i>Heliyon</i> , 2019, 5, e01333.	1.4	47
50	Synthesis and characterization of Ce ³⁺ doped silica (SiO ₂) nanoparticles. <i>Journal of Luminescence</i> , 2011, 131, 1249-1254.	1.5	46
51	Synthesis and characterization of BaAl ₂ O ₄ :Eu ²⁺ co-doped with different rare earth ions. <i>Physica B: Condensed Matter</i> , 2012, 407, 1603-1606.	1.3	46
52	Effect of annealing on the structural, morphological and optical properties of Ga-doped ZnO nanoparticles by reflux precipitation method. <i>Results in Physics</i> , 2017, 7, 2022-2027.	2.0	46
53	X-ray photoelectron spectroscopy and luminescent properties of Y ₂ O ₃ :Bi ³⁺ phosphor. <i>Applied Surface Science</i> , 2015, 332, 198-204.	3.1	45
54	Enhancement of upconversion emission and temperature sensing of paramagnetic Gd ₂ Mo ₃ O ₉ :Er ³⁺ /Yb ³⁺ phosphor via Li ⁺ /Mg ²⁺ co-doping. <i>Journal of Alloys and Compounds</i> , 2018, 747, 455-464.	2.8	45

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55	Eu 3+ doped down shifting TiO ₂ layer for efficient dye-sensitized solar cells. <i>Journal of Colloid and Interface Science</i> , 2016, 484, 24-32.	5.0	44
56	Influence of Bi doping on the structure and photoluminescence of ZnO phosphor synthesized by the combustion method. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2018, 190, 164-171.	2.0	44
57	Defect-induced magnetism in undoped and Mn-doped wide band gap zinc oxide grown by aerosol spray pyrolysis. <i>Applied Surface Science</i> , 2014, 311, 14-26.	3.1	43
58	Structural and luminescence properties of Eu ³⁺ /Dy ³⁺ embedded sodium silicate glass for multicolour emission. <i>Journal of Alloys and Compounds</i> , 2017, 708, 922-931.	2.8	43
59	Roles of doping ions in afterglow properties of blue CaAl ₂ O ₄ :Eu ²⁺ ,Nd ³⁺ phosphors. <i>Physica B: Condensed Matter</i> , 2014, 439, 153-159.	1.3	42
60	Characteristics of the mechanical milling on the room temperature ferromagnetism and sensing properties of TiO ₂ nanoparticles. <i>Applied Surface Science</i> , 2015, 331, 362-372.	3.1	42
61	ZnS thin films grown on Si(100) by XeCl pulsed laser ablation. <i>Applied Surface Science</i> , 2001, 177, 73-77.	3.1	41
62	CaTiO ₃ :Eu ³⁺ , a potential red long lasting phosphor: Energy migration and characterization of trap level distribution. <i>Journal of Alloys and Compounds</i> , 2015, 622, 1068-1073.	2.8	41
63	Charge compensated derived enhanced red emission from Sr ₃ (VO ₄) ₂ :Eu ³⁺ nanophosphors for white light emitting diodes and flat panel displays. <i>Journal of Alloys and Compounds</i> , 2017, 709, 362-372.	2.8	41
64	Preparation and characterization of Ce doped ZnO nanomaterial for photocatalytic and biological applications. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2020, 261, 114780.	1.7	41
65	Effect of alkali metal ions (Li ⁺ , Na ⁺ and K ⁺) on the luminescence properties of CaMgB ₂ O ₅ : Sm ³⁺ nanophosphor. <i>Nano Structures Nano Objects</i> , 2015, 3, 9-16.	1.9	40
66	Combustion synthesis and characterization of blue long lasting phosphor CaAl ₂ O ₄ : Eu ²⁺ , Dy ³⁺ and its novel application in latent fingerprint and lip mark detection. <i>Physica B: Condensed Matter</i> , 2018, 535, 149-156.	1.3	40
67	Effects of cationic substitution on the luminescence behavior of Dy ³⁺ doped orthophosphate phosphor. <i>Journal of Alloys and Compounds</i> , 2019, 806, 1127-1137.	2.8	40
68	The effects of Eu-concentrations on the luminescent properties of SrF ₂ :Eu nanophosphor. <i>Journal of Luminescence</i> , 2014, 156, 150-156.	1.5	39
69	Characterization of annealed Eu ³⁺ -doped ZnO flower-like morphology synthesized by chemical bath deposition method. <i>Optical Materials</i> , 2016, 60, 294-304.	1.7	39
70	Spectroscopic properties of Pr ³⁺ ions embedded in lithium borate glasses. <i>Physica B: Condensed Matter</i> , 2016, 480, 111-115.	1.3	39
71	Optical and surface properties of Zn doped CdO nanorods and antimicrobial applications. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2020, 605, 125369.	2.3	39
72	Structural and spectral studies of highly pure red-emitting Ca ₃ B ₂ O ₆ :Eu ³⁺ phosphors for white light emitting diodes. <i>Journal of Alloys and Compounds</i> , 2021, 869, 159363.	2.8	39

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73	The effect of Ce ³⁺ on structure, morphology and optical properties of flower-like ZnO synthesized using the chemical bath method. <i>Journal of Luminescence</i> , 2013, 143, 463-468.	1.5	37
74	Properties of flower-like ZnO nanostructures synthesized using the chemical bath deposition. <i>Materials Science in Semiconductor Processing</i> , 2014, 27, 33-40.	1.9	37
75	Low voltage electron induced cathodoluminescence degradation and surface characterization of Sr ₃ (PO ₄) ₂ :Tb phosphor. <i>Applied Surface Science</i> , 2011, 257, 10147-10155.	3.1	36
76	Surface state of Y ₃ (Al,Ga) ₅ O ₁₂ :Tb phosphor under electron beam bombardment. <i>Applied Surface Science</i> , 2012, 258, 6495-6503.	3.1	36
77	Phosphorescent and thermoluminescent properties of SrAl ₂ O ₄ :Eu ²⁺ , Dy ³⁺ phosphors prepared by solid state reaction method. <i>Physica B: Condensed Matter</i> , 2012, 407, 1679-1682.	1.3	36
78	Characterization and luminescent properties of SiO ₂ :ZnS:Mn ²⁺ and ZnS:Mn ²⁺ nanophosphors synthesized by a sol-gel method. <i>Physica B: Condensed Matter</i> , 2009, 404, 4470-4475.	1.3	35
79	Luminescence investigations on LiAl ₅ O ₈ :Tb ³⁺ nanocrystalline phosphors. <i>Current Applied Physics</i> , 2011, 11, 341-345.	1.1	35
80	Effect of annealing temperature on structural and optical properties of ZnAl ₂ O ₄ :1.5% Pb ²⁺ nanocrystals synthesized via sol-gel reaction. <i>Journal of Alloys and Compounds</i> , 2016, 677, 72-79.	2.8	35
81	Structural, surface and luminescence properties of Ca ₃ B ₂ O ₆ :Dy ³⁺ phosphors. <i>Ceramics International</i> , 2016, 42, 5743-5753.	2.3	35
82	A comparative investigation on ion impact parameters and TL response of Y ₂ O ₃ :Tb ³⁺ nanophosphor exposed to swift heavy ions for space dosimetry. <i>Journal of Alloys and Compounds</i> , 2014, 589, 5-18.	2.8	34
83	Electrical and optical properties of p-type codoped ZnO thin films prepared by spin coating technique. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2016, 77, 1-6.	1.3	34
84	Improved steady-state photoluminescence derived from the compensation of the charge-imbalance in Ca ₃ Mg ₃ (PO ₄) ₄ :Eu ³⁺ phosphor. <i>Ceramics International</i> , 2019, 45, 21709-21715.	2.3	34
85	Luminescence characterization and electron beam induced chemical changes on the surface of ZnAl ₂ O ₄ :Mn nanocrystalline phosphor. <i>Applied Surface Science</i> , 2011, 257, 3298-3306.	3.1	33
86	The greenish-blue emission and thermoluminescent properties of CaTa ₂ O ₆ :Pr ³⁺ . <i>Journal of Alloys and Compounds</i> , 2014, 589, 88-93.	2.8	33
87	Enhanced exciton emission from ZnO nano-phosphor induced by Yb ³⁺ ions. <i>Materials Letters</i> , 2014, 119, 71-74.	1.3	33
88	Comparison and analysis of Eu ³⁺ luminescence in Y ₃ Al ₅ O ₁₂ and Y ₃ Ga ₅ O ₁₂ hosts material for red lighting phosphor. <i>Materials Chemistry and Physics</i> , 2015, 166, 167-175.	2.0	33
89	Tailoring and optimization of optical properties of CdO thin films for gas sensing applications. <i>Physica B: Condensed Matter</i> , 2018, 535, 314-318.	1.3	33
90	Electron beam induced degradation of a pulsed laser deposited ZnS:Cu,Au,Al thin film on a Si(1 0 0) substrate. <i>Applied Surface Science</i> , 2001, 183, 304-310.	3.1	32

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91	Role of swift heavy ions irradiation on the emission of boron doped ZnO thin films for near white light application. <i>Journal of Alloys and Compounds</i> , 2014, 594, 32-38.	2.8	32
92	Luminescent properties, intensity degradation and X-ray photoelectron spectroscopy analysis of CaS:Eu ²⁺ powder. <i>Optical Materials</i> , 2015, 40, 68-75.	1.7	32
93	(INVITED) Ultraviolet and visible luminescence from bismuth doped materials. <i>Optical Materials: X</i> , 2019, 2, 100025.	0.3	32
94	Multifunction applications of Bi ₂ O ₃ :Eu ³⁺ nanophosphor for red light emission and photocatalytic activity. <i>Applied Surface Science</i> , 2019, 497, 143748.	3.1	32
95	Structural, optical and photoluminescence properties of Eu doped ZnO thin films prepared by spin coating. <i>Journal of Molecular Structure</i> , 2019, 1192, 105-114.	1.8	32
96	H ₂ S detection capabilities with fibrous-like La-doped ZnO nanostructures: A comparative study on the combined effects of La-doping and post-annealing. <i>Journal of Alloys and Compounds</i> , 2019, 797, 284-301.	2.8	32
97	Dependence of Eu ³⁺ luminescence dynamics on the structure of the combustion synthesized Sr ₅ (PO ₄) ₃ F host. <i>Journal of Alloys and Compounds</i> , 2011, 509, 2544-2551.	2.8	31
98	Synthesis and optical studies of KCaVO ₄ :Sm ³⁺ /PMMA nanocomposites. <i>Vacuum</i> , 2019, 159, 414-422.	1.6	31
99	Photoluminescence and thermoluminescence properties of Pr ³⁺ doped ZnTa ₂ O ₆ phosphor. <i>Powder Technology</i> , 2013, 247, 147-150.	2.1	30
100	Conversion of Y ₃ (Al,Ga) ₅ O ₁₂ :Tb ³⁺ to Y ₂ Si ₂ O ₇ :Tb ³⁺ thin film by annealing at higher temperatures. <i>Applied Surface Science</i> , 2013, 270, 331-339.	3.1	30
101	NaSrVO ₄ :Sm ³⁺ An n-UV convertible phosphor to fill the quantum efficiency gap for LED applications. <i>Ceramics International</i> , 2016, 42, 2317-2323.	2.3	29
102	Luminescence properties of Bi doped La ₂ O ₃ powder phosphor. <i>Journal of Luminescence</i> , 2019, 209, 217-224.	1.5	29
103	Electron beam-induced degradation of zinc sulfide-based phosphors. <i>Surface Science</i> , 2000, 451, 174-181.	0.8	28
104	Photon upconversion in Ho ³⁺ -Yb ³⁺ embedded tungsten tellurite glass. <i>Journal of Luminescence</i> , 2017, 192, 757-760.	1.5	28
105	Multifunctional properties of plasmonic Cu nanoparticles embedded in a glass matrix and their thermodynamic behavior. <i>Journal of Alloys and Compounds</i> , 2018, 747, 530-542.	2.8	28
106	Effects of octadecylamine molar concentration on the structure, morphology and optical properties of ZnO nanostructure prepared by homogeneous precipitation method. <i>Journal of Luminescence</i> , 2018, 200, 206-215.	1.5	28
107	Facile precipitation synthesis of green-emitting BaY ₂ F ₈ :Yb ³⁺ , Ho ³⁺ upconverting phosphor. <i>Ceramics International</i> , 2019, 45, 14205-14213.	2.3	28
108	Extracting inter-diffusion parameters of TiC from AES depth profiles. <i>Applied Surface Science</i> , 2003, 205, 231-239.	3.1	27

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109	Luminescent properties of Ca _{0.97} Al ₂ O ₄ :Eu _{0.012} ,Dy _{0.023} phosphors prepared by combustion method at different initiating temperatures. Journal of Alloys and Compounds, 2010, 508, 262-265.	2.8	27
110	PL and CL degradation and characteristics of SrAl ₂ O ₄ : Eu ²⁺ ,Dy ³⁺ phosphors. Physica B: Condensed Matter, 2012, 407, 1664-1667.	1.3	27
111	Energy transfer pathways in MgAl ₂ O ₄ triply doped with 0.1% Ce ³⁺ , 0.1% Eu ²⁺ , and 0.1% Tb ³⁺ http://www.w3.org/1998/Math/MathML altimg="s1.gif" overflow="scroll"><mml:mrow><mml:mo		

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127	The effect of different gas atmospheres on luminescent properties of pulsed laser ablated SrAl ₂ O ₄ :Eu ²⁺ , Dy ³⁺ thinfilms. Journal of Luminescence, 2011, 131, 119-125.	1.5	22
128	Charge compensated CaSr ₂ (PO ₄) ₂ :Sm ³⁺ , Li ⁺ /Na ⁺ /K ⁺ phosphor: Luminescence and thermometric studies. Journal of Alloys and Compounds, 2022, 901, 163793.	2.8	22
129	Concentration quenching, surface and spectral analyses of SrF ₂ :Pr ³⁺ prepared by different synthesis techniques. Optical Materials, 2015, 42, 204-209.	1.7	21
130	Energy transfer study between Ce ³⁺ and Tb ³⁺ ions in a calcium fluoride crystal for solar cell applications. Journal of Luminescence, 2017, 187, 96-101.	1.5	21
131	Surface and spectral studies of Sm ³⁺ doped Li ₄ Ca(BO ₃) ₂ phosphors for white light emitting diodes. Journal of Alloys and Compounds, 2018, 738, 97-104.	2.8	21
132	Pulsed laser deposition of a ZnO:Eu ³⁺ thin film: Study of the luminescence and surface state under electron beam irradiation. Applied Surface Science, 2020, 502, 144281.	3.1	21
133	Effect of a CdO coating on the degradation of a ZnS thin film phosphor material. Applied Surface Science, 2002, 187, 137-144.	3.1	20
134	Degradation of Y ₂ SiO ₅ :Ce phosphor powders. Journal of Luminescence, 2007, 126, 37-42.	1.5	20
135	The effect of Mg ²⁺ ions on the photoluminescence of Ce ³⁺ -doped silica. Physica B: Condensed Matter, 2009, 404, 4499-4503.	1.3	20
136	The cathodoluminescence degradation and surface characterization of \hat{I}^2 -Ca ₃ (PO ₄) ₂ :Tb phosphor. Optical Materials, 2012, 34, 1398-1405.	1.7	20
137	A study on the sensing of NO ₂ and O ₂ utilizing ZnO films grown by aerosol spray pyrolysis. Materials Chemistry and Physics, 2015, 162, 628-639.	2.0	20
138	Temperature induced upconversion behaviour of Ho ³⁺ -Yb ³⁺ codoped yttrium oxide films prepared by pulsed laser deposition. Journal of Alloys and Compounds, 2016, 672, 190-196.	2.8	20
139	Effect of PLD growth atmosphere on the physical properties of ZnO:Zn thin films. Optical Materials, 2017, 74, 76-85.	1.7	20
140	Surface characterization and cathodoluminescence degradation of ZnO thin films. Applied Surface Science, 2017, 424, 412-420.	3.1	20
141	Investigation of thermoluminescence response and trapping parameters of 120ÂMeV Ag ⁹⁺ and \hat{I}^3 -ray exposed NaSrBO ₃ :Dy ³⁺ phosphor for dosimetry. Journal of Alloys and Compounds, 2017, 691, 919-928.	2.8	20
142	Cathodoluminescent stability of rare earth tantalate phosphors. Journal of Luminescence, 2013, 140, 14-20.	1.5	19
143	Radiative energy transfer in ZnAl ₂ O ₄ :0.1% Ce ³⁺ , x% Eu ³⁺ nanophosphor synthesized by solâ€“gel process. Physica B: Condensed Matter, 2015, 468-469, 11-20.	1.3	19
144	Effect of doping concentration on the conductivity and optical properties of p-type ZnO thin films. Physica B: Condensed Matter, 2016, 480, 31-35.	1.3	19

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145	Synthesis, structure and optical studies of ZnO:Eu ³⁺ ,Er ³⁺ ,Yb ³⁺ thin films: Enhanced up-conversion emission. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2018, 540, 123-135.	2.3	19
146	Structural and luminescence properties of thermally stable cool-white light emitting NaCaPO ₄ :Dy ³⁺ phosphor. <i>Optik</i> , 2020, 219, 165026.	1.4	19
147	Synthesis, surface and photoluminescence properties of Sm ³⁺ doped λ -Bi ₂ O ₃ . <i>Journal of Alloys and Compounds</i> , 2021, 854, 157221.	2.8	19
148	Auger electron/X-ray photoelectron and cathodoluminescent spectroscopic studies of pulsed laser ablated SrAl ₂ O ₄ :Eu ²⁺ ,Dy ³⁺ thin films. <i>Applied Surface Science</i> , 2010, 257, 512-517.	3.1	18
149	Thermoluminescence of calcium phosphate co-doped with gadolinium and praseodymium. <i>Radiation Measurements</i> , 2015, 77, 26-33.	0.7	18
150	Effect of substrate temperature and post annealing temperature on ZnO:Zn PLD thin film properties. <i>Optical Materials</i> , 2017, 74, 139-149.	1.7	18
151	Structural and optical studies of ZnAl ₂ O ₄ :x% Cu ²⁺ synthesized via citrate sol-gel route. <i>Optical Materials</i> , 2017, 64, 26-32.	1.7	18
152	Physical and optical properties of lithium borosilicate glasses doped with Dy ³⁺ ions. <i>Physica B: Condensed Matter</i> , 2018, 535, 194-197.	1.3	18
153	Persistent photoluminescence emission from SrTa ₂ O ₆ :Pr ³⁺ phosphor prepared at different temperatures. <i>Ceramics International</i> , 2015, 41, 8828-8836.	2.3	17
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