

Hendrik C Swart

List of Publications by Year in descending order

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788
papers

18,922
citations

23567

58
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48315

88
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798
all docs

798
docs citations

798
times ranked

13023
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.	32.8	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.	7.8	355
3	Origin of the red emission in zinc oxide nanophosphors. <i>Materials Letters</i> , 2013, 101, 57-60.	2.6	255
4	Defect correlated fluorescent quenching and electron phonon coupling in the spectral transition of Eu ³⁺ in CaTiO ₃ for red emission in display application. <i>Journal of Applied Physics</i> , 2014, 115, .	2.5	250
5	Noble metals-TiO ₂ nanocomposites: From fundamental mechanisms to photocatalysis, surface enhanced Raman scattering and antibacterial applications. <i>Applied Materials Today</i> , 2018, 11, 82-135.	4.3	231
6	Rare Earth Doped Zinc Oxide Nanophosphor Powder: A Future Material for Solid State Lighting and Solar Cells. <i>ACS Photonics</i> , 2017, 4, 2613-2637.	6.6	219
7	The energy transfer phenomena and colour tunability in Y ₂ O ₃ :Eu ³⁺ /Dy ³⁺ micro-fibers for white emission in solid state lighting applications. <i>Dalton Transactions</i> , 2014, 43, 9860-9871.	3.3	212
8	Ultra-high sensitive and selective H ₂ gas sensor manifested by interface of n–n heterostructure of CeO ₂ -SnO ₂ nanoparticles. <i>Sensors and Actuators B: Chemical</i> , 2018, 254, 984-995.	7.8	175
9	Advances in field emission displays phosphors. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 1999, 17, 758.	1.6	159
10	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.	1.8	152
11	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.	7.8	152
12	Tunable and white emission from ZnO:Tb ³⁺ nanophosphors for solid state lighting applications. <i>Chemical Engineering Journal</i> , 2014, 255, 541-552.	12.7	146
13	A review on recent progress of p-type nickel oxide based gas sensors: Future perspectives. <i>Journal of Alloys and Compounds</i> , 2019, 805, 267-294.	5.5	146
14	Degradation of zinc sulfide phosphors under electron bombardment. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 1996, 14, 1697-1703.	2.1	142
15	Shape-Selective Dependence of Room Temperature Ferromagnetism Induced by Hierarchical ZnO Nanostructures. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 8981-8995.	8.0	117
16	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.	9.4	107
17	Effect of Eu doping on the photoluminescence properties of ZnO nanophosphors for red emission applications. <i>Applied Surface Science</i> , 2014, 308, 419-430.	6.1	105
18	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.	5.5	102

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19	Water retention and dye adsorption behavior of Gg-cl-poly(acrylic acid-aniline) based conductive hydrogels. <i>Geoderma</i> , 2014, 232-234, 45-55.	5.1	100
20	The role of surface and deep-level defects on the emission of tin oxide quantum dots. <i>Nanotechnology</i> , 2014, 25, 135701.	2.6	99
21	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.	5.5	93
22	Noble metal nanoparticles embedding into polymeric materials: From fundamentals to applications. <i>Advances in Colloid and Interface Science</i> , 2015, 226, 187-202.	14.7	89
23	A highly responsive NH ₃ sensor based on Pd-loaded ZnO nanoparticles prepared via a chemical precipitation approach. <i>Scientific Reports</i> , 2019, 9, 9881.	3.3	88
24	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.	5.5	84
25	Synthesis, characterization and multifunctional properties of plasmonic Ag@TiO ₂ nanocomposites. <i>Nanotechnology</i> , 2016, 27, 355707.	2.6	84
26	Photoluminescence and phosphorescence properties of MAI 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.	2.7	83
27	Temperature-dependence on the structural, optical, and paramagnetic properties of ZnO nanostructures. <i>Applied Surface Science</i> , 2014, 293, 62-70.	6.1	82
28	Characteristics of point defects on the room temperature ferromagnetic and highly NO ₂ selectivity gas sensing of p-type Mn ₃ O ₄ nanorods. <i>Sensors and Actuators B: Chemical</i> , 2019, 285, 92-107.	7.8	82
29	Luminescence dynamics and investigation of Judd-Ofelt intensity parameters of Sm ³⁺ ion containing glasses. <i>Optical Materials</i> , 2017, 64, 171-178.	3.6	81
30	Synthesis and properties of poly(acrylamide-aniline)-grafted gum ghatti based nanospikes. <i>RSC Advances</i> , 2013, 3, 25830.	3.6	80
31	Review of rare earth activated blue emission phosphors prepared by combustion synthesis. <i>Renewable and Sustainable Energy Reviews</i> , 2015, 52, 596-612.	16.4	76
32	Energy Transfer Mechanisms and Optical Thermometry of BaMgF ₄ :Yb ³⁺ ,Er ³⁺ Phosphor. <i>Inorganic Chemistry</i> , 2018, 57, 288-299.	4.0	76
33	The oxidation of industrial FeCrMo steel. <i>Corrosion Science</i> , 2000, 42, 1725-1740.	6.6	74
34	Doped zinc oxide window layers for dye sensitized solar cells. <i>Journal of Applied Physics</i> , 2013, 114, .	2.5	73
35	Photocatalytic and biological applications of Ag and Au doped ZnO nanomaterial synthesized by combustion. <i>Vacuum</i> , 2018, 157, 508-513.	3.5	73
36	Afterglow enhancement with In ³⁺ codoping in CaTiO ₃ :Pr ³⁺ red phosphor. <i>Powder Technology</i> , 2013, 237, 141-146.	4.2	72

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37	Synthesis and characterization of Er ³⁺ -Yb ³⁺ doped ZnO upconversion nanoparticles for solar cell application. <i>Journal of Alloys and Compounds</i> , 2018, 766, 429-435.	5.5	72
38	In depth study on the notable room-temperature NO ₂ gas sensor based on CuO nanoplatelets prepared by sonochemical method: Comparison of various bases. <i>Sensors and Actuators B: Chemical</i> , 2018, 266, 761-772.	7.8	69
39	ZnS:Cu,Al,Au phosphor degradation under electron excitation. <i>Applied Surface Science</i> , 1997, 120, 9-14.	6.1	68
40	Effect of Br ⁺ ions on the structural, morphological and luminescent properties of ZnO/Si thin films. <i>Applied Surface Science</i> , 2013, 279, 472-478.	6.1	68
41	Surface, optical and photocatalytic properties of Rb doped ZnO nanoparticles. <i>Applied Surface Science</i> , 2020, 514, 145930.	6.1	68
42	Synthesis and biodegradation studies of gamma irradiated electrically conductive hydrogels. <i>Polymer Degradation and Stability</i> , 2014, 107, 166-177.	5.8	67
43	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. <i>Applied Surface Science</i> , 2020, 505, 144356.	6.1	67
44	Novel rare earth metal doped one-dimensional TiO ₂ nanostructures: Fundamentals and multifunctional applications. <i>Materials Today Sustainability</i> , 2021, 13, 100066.	4.1	66
45	Plasmonic resonance of Ag nanoclusters diffused in soda-lime glasses. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 8596-8603.	2.8	65
46	Advances in ZnO: Manipulation of defects for enhancing their technological potentials. <i>Nanotechnology Reviews</i> , 2022, 11, 575-619.	5.8	65
47	Synthesis of Biodegradable Gum ghatti Based Poly(methacrylic acid-aniline) Conducting IPN Hydrogel for Controlled Release of Amoxicillin Trihydrate. <i>Industrial & Engineering Chemistry Research</i> , 2015, 54, 1982-1991.	3.7	64
48	Enhancement of upconversion, temperature sensing and cathodoluminescence in the K ⁺ /Na ⁺ compensated CaMoO ₄ :Er ³⁺ /Yb ³⁺ nanophosphor. <i>New Journal of Chemistry</i> , 2017, 41, 5362-5372.	2.8	64
49	Band gap tailoring of cauliflower-shaped CuO nanostructures by Zn doping for antibacterial applications. <i>Journal of Alloys and Compounds</i> , 2020, 832, 154968.	5.5	64
50	Influence of ultrasonication times on the tunable colour emission of ZnO nanophosphors for lighting applications. <i>Ultrasonics Sonochemistry</i> , 2014, 21, 1549-1556.	8.2	63
51	Application of biodegradable superabsorbent hydrogel composite based on Gum ghatti-co-poly(acrylic) Tj ETQq1 1 0,784314 rgBT /Over	5.8	63
52	Effect of Eu ³⁺ on the structure, morphology and optical properties of flower-like ZnO synthesized using chemical bath deposition. <i>Journal of Luminescence</i> , 2014, 147, 85-89.	3.1	62
53	Swift heavy ion irradiation induced modification in structural, optical and luminescence properties of Y ₂ O ₃ :Tb ³⁺ nanophosphor. <i>Journal of Luminescence</i> , 2014, 146, 162-173.	3.1	62
54	Surface and bulk characterization of an ultrafine South African coal fly ash with reference to polymer applications. <i>Applied Surface Science</i> , 2014, 317, 73-83.	6.1	61

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55	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.	6.1	61
56	Latest Development on Pulsed Laser Deposited Thin Films for Advanced Luminescence Applications. Coatings, 2020, 10, 1078.	2.6	61
57	Generation of white-light from Dy ³⁺ doped Sr ₂ SiO ₄ phosphor. Physica B: Condensed Matter, 2014, 439, 126-129.	2.7	60
58	A promising orange-red emitting nanocrystalline NaCaBO ₃ :Sm ³⁺ phosphor for solid state lightning. Materials Research Express, 2014, 1, 015006.	1.6	60
59	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.	4.8	60
60	Synthesis, characterization and water retention study of biodegradable Gum ghatti-poly(acrylic) Tj ETQqO 0 0 rgBT /Overlock 10 Tf 50 5	5.8	60
61	Degradation of ZnS field-emission display phosphors during electron-beam bombardment. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1997, 15, 2349-2353.	2.1	58
62	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.	4.0	58
63	Embedded plasmonic nanostructures: synthesis, fundamental aspects and their surface enhanced Raman scattering applications. International Reviews in Physical Chemistry, 2016, 35, 353-398.	2.3	58
64	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.	5.0	58
65	Multiple Substitution Strategies toward Tunable Luminescence in Lu ₂ MgAl ₄ SiO ₁₂ :Eu ²⁺ Phosphors. Inorganic Chemistry, 2020, 59, 1405-1413.	4.0	58
66	Potential of Sm ³⁺ doped LiSrVO ₄ nanophosphor to fill amber gap in LEDs. Physica B: Condensed Matter, 2018, 535, 221-226.	2.7	57
67	The blue luminescence of p-type NiO nanostructured material induced by defects: H ₂ S gas sensing characteristics at a relatively low operating temperature. Applied Surface Science, 2020, 525, 146002.	6.1	56
68	Optical and surface enhanced Raman scattering properties of Au nanoparticles embedded in and located on a carbonaceous matrix. Physical Chemistry Chemical Physics, 2016, 18, 2468-2480.	2.8	55
69	Review on recent progress in metal-organic framework-based materials for fabricating electrochemical glucose sensors. Journal of Materials Chemistry B, 2021, 9, 7927-7954.	5.8	55
70	Competitive Site Occupation toward Improved Quantum Efficiency of SrLaScO ₄ :Eu Red Phosphors for Warm White LEDs. Advanced Optical Materials, 2022, 10, .	7.3	55
71	TiO ₂ Nanowires for Humidity-Stable Gas Sensors for Toluene and Xylene. ACS Applied Nano Materials, 2021, 4, 702-716.	5.0	54
72	Cathodoluminescent properties and surface characterization of bluish-white LiAl ₅ O ₈ :Tb phosphor. Journal of Applied Physics, 2011, 109, .	2.5	53

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73	A near-UV-converted LiMgBO ₃ :Dy ³⁺ nanophosphor: Surface and spectral investigations. Applied Surface Science, 2015, 329, 40-46.	6.1	53
74	Infrared emission spectroscopy and upconversion of ZnO-Li ₂ O-Na ₂ O-P ₂ O ₅ glasses doped with Nd ³⁺ ions. Journal of Non-Crystalline Solids, 2017, 457, 157-163.	3.1	53
75	A comparative study on structural, morphological and luminescence characteristics of Zn ₃ (VO ₄) ₂ phosphor prepared via hydrothermal and citrate-gel combustion routes. Physica B: Condensed Matter, 2012, 407, 1485-1488.	2.7	52
76	Potential of Sr ₄ Al ₁₄ O ₂₅ : Eu ²⁺ , Dy ³⁺ inorganic oxide-based nanophosphor in Latent fingermark detection. Journal of Materials Science, 2014, 49, 2225-2234.	3.7	52
77	Luminescence of Ce doped MgAl ₂ O ₄ prepared by the combustion method. Physica B: Condensed Matter, 2014, 439, 109-114.	2.7	52
78	The role of oxygen and titanium related defects on the emission of TiO ₂ :Tb ³⁺ nano-phosphor for blue lighting applications. Optical Materials, 2015, 46, 510-516.	3.6	52
79	The difference in degradation behaviour of ZnS:Cu,Al,Au and ZnS:Ag,Cl phosphor powders. Applied Surface Science, 1999, 140, 63-69.	6.1	51
80	Pd ²⁺ doped ZnO nanostructures: Structural, luminescence and gas sensing properties. Materials Letters, 2015, 160, 200-205.	2.6	51
81	Phase formation of hexagonal wurtzite ZnO through decomposition of Zn(OH) ₂ at various growth temperatures using CBD method. Optical Materials, 2015, 46, 292-298.	3.6	51
82	Phosphor Polymer Nanocomposite: ZnO:Tb ³⁺ Embedded Polystyrene Nanocomposite Thin Films for Solid-State Lighting Applications. ACS Applied Nano Materials, 2018, 1, 977-988.	5.0	51
83	Ultra-sensitive and selective p-xylene gas sensor at low operating temperature utilizing Zn doped CuO nanoplatelets: Insignificant vestiges of oxygen vacancies. Journal of Colloid and Interface Science, 2020, 576, 364-375.	9.4	51
84	Enhanced luminescence and degradation of SiO ₂ :Ce,Tb powder phosphors prepared by a sol-gel process. Journal of Physics and Chemistry of Solids, 2006, 67, 1749-1753.	4.0	50
85	Investigations on the low voltage cathodoluminescence stability and surface chemical behaviour using Auger and X-ray photoelectron spectroscopy on LiSrBO ₃ :Sm ³⁺ phosphor. Materials Research Bulletin, 2011, 46, 987-994.	5.2	50
86	Spectroscopic studies of Sm ³⁺ /Dy ³⁺ co-doped lithium boro-silicate glasses. Journal of Non-Crystalline Solids, 2016, 438, 49-58.	3.1	50
87	Transparent conducting ZnO-CdO mixed oxide thin films grown by the sol-gel method. Journal of Colloid and Interface Science, 2017, 487, 378-387.	9.4	50
88	Defects induced enhancement of antifungal activities of Zn doped CuO nanostructures. Applied Surface Science, 2021, 560, 150026.	6.1	50
89	Spectroscopic Investigation of Up-Conversion Properties in Green Emitting BaMgF ₄ :Yb ³⁺ , Tb ³⁺ Phosphor. Inorganic Chemistry, 2017, 56, 4996-5005.	4.0	49
90	Fabrication and characterization of gum ghatti-polymethacrylic acid based electrically conductive hydrogels. Synthetic Metals, 2014, 187, 61-67.	3.9	48

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91	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.	2.6	47
92	Luminescence investigations of Ce ³⁺ doped CaS nanophosphors. <i>Journal of Alloys and Compounds</i> , 2010, 492, L8-L12.	5.5	47
93	Effects of particle morphology of ZnO buffer layer on the performance of organic solar cell devices. <i>Solar Energy Materials and Solar Cells</i> , 2013, 112, 6-12.	6.2	47
94	Effect of fuel content on luminescence and antibacterial properties of zinc oxide nanocrystalline powders synthesized by the combustion method. <i>RSC Advances</i> , 2016, 6, 97770-97782.	3.6	47
95	Substrate dependent structural, optical and electrical properties of ZnS thin films grown by RF sputtering. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2016, 84, 530-536.	2.7	47
96	Radiative transition probability enhancement of white light emitting Dy ³⁺ doped and K ⁺ co-doped BaWO ₄ phosphors via charge compensation. <i>Journal of Alloys and Compounds</i> , 2018, 735, 2410-2422.	5.5	47
97	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.	3.2	47
98	Enhanced propanol gas sensing performance of p-type NiO gas sensor induced by exceptionally large surface area and crystallinity. <i>Applied Surface Science</i> , 2022, 571, 151121.	6.1	47
99	Synthesis and characterization of Ce ³⁺ doped silica (SiO ₂) nanoparticles. <i>Journal of Luminescence</i> , 2011, 131, 1249-1254.	3.1	46
100	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.	2.7	46
101	A study of the biodegradation behaviour of poly(methacrylic acid/aniline)-grafted gum ghatti by a soil burial method. <i>RSC Advances</i> , 2014, 4, 25637.	3.6	46
102	Determination of the optical band gap of Alq ₃ and its derivatives for the use in two-layer OLEDs. <i>Optical Materials</i> , 2015, 42, 193-198.	3.6	46
103	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.	4.1	46
104	X-ray photoelectron spectroscopy and luminescent properties of Y ₂ O ₃ :Bi ³⁺ phosphor. <i>Applied Surface Science</i> , 2015, 332, 198-204.	6.1	45
105	Correlating the magnetism and gas sensing properties of Mn-doped ZnO films enhanced by UV irradiation. <i>RSC Advances</i> , 2016, 6, 26227-26238.	3.6	45
106	Deep level defect correlated emission and Si diffusion in ZnO:Tb ³⁺ thin films prepared by pulsed laser deposition. <i>Journal of Colloid and Interface Science</i> , 2016, 465, 295-303.	9.4	45
107	Red-light-emitting inorganic La ₂ CaZnO ₅ frameworks with high photoluminescence quantum efficiency: Theoretical approach. <i>Materials and Design</i> , 2016, 93, 203-215.	7.0	45
108	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.	5.5	45

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109	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.	9.4	44
110	Escalating opportunities in the field of lighting. <i>Renewable and Sustainable Energy Reviews</i> , 2016, 64, 727-748.	16.4	44
111	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.	3.9	44
112	Degradation behaviour of ZnS phosphor powders under different experimental conditions. <i>Surface and Interface Analysis</i> , 1998, 26, 337-342.	1.8	43
113	Synthesis and characterization of ZnO nanoparticles using polyethylene glycol (PEG). <i>Physica B: Condensed Matter</i> , 2012, 407, 1668-1671.	2.7	43
114	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.	6.1	43
115	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.	5.5	43
116	The influence of residual gas pressures on the degradation of ZnS powder phosphors. <i>Journal of Applied Physics</i> , 1998, 83, 4578-4583.	2.5	42
117	Optical properties of Bi and energy transfer from Bi to Tb in MgAl ₂ O ₄ phosphor. <i>Journal of Luminescence</i> , 2014, 148, 192-197.	3.1	42
118	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.	2.7	42
119	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.	6.1	42
120	Stabilizing Fluoride Phosphors: Surface Modification by Atomic Layer Deposition. <i>Chemistry of Materials</i> , 2019, 31, 7192-7202.	6.7	42
121	ZnS thin films grown on Si(100) by XeCl pulsed laser ablation. <i>Applied Surface Science</i> , 2001, 177, 73-77.	6.1	41
122	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.	5.5	41
123	Enhanced Pr ³⁺ photoluminescence by energy transfer in SrF ₂ : Eu ²⁺ , Pr ³⁺ phosphor. <i>AIP Advances</i> , 2016, 6, .	1.3	41
124	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.	5.5	41
125	Biomineralization and Bioaccumulation of Europium by a Thermophilic Metal Resistant Bacterium. <i>Frontiers in Microbiology</i> , 2019, 10, 81.	3.5	41
126	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.	3.5	41

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127	Effects of Pb ²⁺ ions concentration on the structure and PL intensity of Pb-doped ZnAl ₂ O ₄ nanocrystals synthesized using sol-gel process. Journal of Sol-Gel Science and Technology, 2014, 70, 422-427.	2.4	40
128	Combustion synthesis, characterization and luminescence properties of barium aluminate phosphor. Journal of Rare Earths, 2014, 32, 806-811.	4.8	40
129	Effect of alkali metal ions (Li ⁺ , Na ⁺ and K ⁺) on the luminescence properties of CaMgB ₂ O ₅ : Sm ³⁺ nanophosphor. Nano Structures Nano Objects, 2015, 3, 9-16.	3.5	40
130	Electrocatalytic biofuel cell based on highly efficient metal-polymer nano-architected bioelectrodes. Nano Energy, 2017, 39, 601-607.	16.0	40
131	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. Physica B: Condensed Matter, 2018, 535, 149-156.	2.7	40
132	Effects of cationic substitution on the luminescence behavior of Dy ³⁺ doped orthophosphate phosphor. Journal of Alloys and Compounds, 2019, 806, 1127-1137.	5.5	40
133	Improvement in upconversion/downshifting luminescence of Gd ₂ O ₃ :Ho ³⁺ /Yb ³⁺ phosphor through Ca ²⁺ / Zn ²⁺ incorporation and optical thermometry studies. Materials Research Bulletin, 2019, 112, 28-37.	5.2	40
134	Luminescence Dependence of Pr ³⁺ Activated SiO ₂ Nanophosphor on Pr ³⁺ Concentration, Temperature, and ZnO Incorporation. Journal of Physical Chemistry C, 2011, 115, 17625-17632.	3.1	39
135	The effect of electron donating and withdrawing groups on the morphology and optical properties of Alq ₃ . Physica B: Condensed Matter, 2014, 439, 46-49.	2.7	39
136	The effects of Eu-concentrations on the luminescent properties of SrF ₂ :Eu nanophosphor. Journal of Luminescence, 2014, 156, 150-156.	3.1	39
137	Characterization of annealed Eu ³⁺ -doped ZnO flower-like morphology synthesized by chemical bath deposition method. Optical Materials, 2016, 60, 294-304.	3.6	39
138	Spectroscopic properties of Pr ³⁺ ions embedded in lithium borate glasses. Physica B: Condensed Matter, 2016, 480, 111-115.	2.7	39
139	Optical and surface properties of Zn doped CdO nanorods and antimicrobial applications. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2020, 605, 125369.	4.7	39
140	Structural and spectral studies of highly pure red-emitting Ca ₃ B ₂ O ₆ :Eu ³⁺ phosphors for white light emitting diodes. Journal of Alloys and Compounds, 2021, 869, 159363.	5.5	39
141	Energy transfer mechanism from Gd ³⁺ to Sm ³⁺ in K ₃ Gd(PO ₄) ₂ :Sm ³⁺ phosphor. Materials Research Express, 2015, 2, 076202.	1.6	38
142	The effect of Ce ³⁺ on structure, morphology and optical properties of flower-like ZnO synthesized using the chemical bath method. Journal of Luminescence, 2013, 143, 463-468.	3.1	37
143	Properties of flower-like ZnO nanostructures synthesized using the chemical bath deposition. Materials Science in Semiconductor Processing, 2014, 27, 33-40.	4.0	37
144	Emerging applications of atomic layer deposition for the rational design of novel nanostructures for surface-enhanced Raman scattering. Journal of Materials Chemistry C, 2019, 7, 1447-1471.	5.5	37

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