Hendrik C Swart

List of Publications by Year
in descending order

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Version: 2024-02-01

788 papers	18,922 citations	23567 58 h-index	48315 88 g-index
798 all docs	798 docs citations	798 times ranked	13023 citing authors

#	Article	IF	Citations
1	Enriching Trace Level Adsorption Affinity of As3+ Ion Using Hydrothermally Synthesized Iron-Doped Hydroxyapatite Nanorods. Journal of Inorganic and Organometallic Polymers and Materials, 2022, 32, 47-62.	3.7	8
2	Enhanced propanol gas sensing performance of p-type NiO gas sensor induced by exceptionally large surface area and crystallinity. Applied Surface Science, 2022, 571, 151121.	6.1	47
3	Charge transfer characteristics and luminescence properties of Eu3+ activated Ba2YMoO6 and BaY2(MoO4)4 phosphors. Materials Research Bulletin, 2022, 145, 111554.	5.2	12
4	Cr-doped ZnGa2O4: Simple synthesis of intense red-NIR emitting nanoparticles with enhanced quantum efficiency. Optical Materials, 2022, 123, 111919.	3.6	6
5	Zinc selenide semiconductor: synthesis, properties and applications. , 2022, , 67-84.		5
6	Erbium energy bridging upconversion mechanism studies on BAKL:Er³⁺/Yb³⁺ glass-ceramics and simultaneous enhancement of color purity of the green luminescence. Dalton Transactions, 2022, 51, 2827-2839.	3.3	13
7	Multifunctional properties of hybrid semiconducting nanomaterials and their applications. , 2022, , 315-350.		2
8	Structural and spectral investigation of a near-UV-converted LiSrP3O9:Dy3+ phosphor for white light-emitting diodes. Journal of Materials Science: Materials in Electronics, 2022, 33, 6031-6042.	2.2	4
9	Photoluminescence, cathodoluminescence degradation and surface analysis of Gd2O3:Bi pulsed laser deposition thin films. Physica B: Condensed Matter, 2022, 631, 413618.	2.7	3
10	Charge compensated CaSr2(PO4)2:Sm3+, Li+/Na+/K+ phosphor: Luminescence and thermometric studies. Journal of Alloys and Compounds, 2022, 901, 163793.	5.5	22
11	Luminescence properties of Yb3+ and Er3+ co-doped into Gd2O3:Bi3+ phosphor powder. Journal of Alloys and Compounds, 2022, 902, 163856.	5.5	9
12	Advances in ZnO: Manipulation of defects for enhancing their technological potentials. Nanotechnology Reviews, 2022, 11, 575-619.	5.8	65
13	Competitive Site Occupation toward Improved Quantum Efficiency of SrLaScO₄:Eu Red Phosphors for Warm White LEDs. Advanced Optical Materials, 2022, 10, .	7.3	55
14	Low Temperature Tunability on CO Selectivity, Low Detection Limit Based on SnO2-Hollowspheres Induced by Various Bases. Surfaces and Interfaces, 2022, 31, 101954.	3.0	3
15	Multi-functioning of CeO2-SnO2 heterostructure as room temperature ferromagnetism and chemiresistive sensors. Journal of Alloys and Compounds, 2022, 906, 164317.	5.5	16
16	Graphene oxide and its films produced using a nebulizer spray coating method. Materials Research Bulletin, 2022, 151, 111806.	5.2	6
17	Plasmonic Au nanoparticles embedded in glass: Study of TOF-SIMS, XPS and its enhanced antimicrobial activities. Journal of Alloys and Compounds, 2022, 909, 164789.	5.5	26
18	Investigation of thermoluminescence response and trapping parameters of gamma-ray irradiated Zn3(VO4)2 phosphors. AIP Conference Proceedings, 2022, , .	0.4	0

#	Article	IF	Citations
19	The morphology and downshifting luminescence of [CaY]F2 crystals doped with Ce3+/Eu3+/2+/Na+. Ceramics International, 2022, 48, 23657-23665.	4.8	1
20	Effects of sputtering induced artifacts on the determination of diffusion coefficient: Application to Ni/Cu system. Vacuum, 2022, 202, 111206.	3.5	2
21	Investigation on the material properties of ZnO nanorods deposited on Gaâ€doped ZnO seeded glass substrate: Effects of CBD precursor concentration. Surface and Interface Analysis, 2022, 54, 1023-1031.	1.8	2
22	Comparative study of the luminescence of Bi doped LaOCl and LaOBr phosphor powders. Journal of Luminescence, 2022, 250, 119050.	3.1	7
23	Plasmonic induced 5D3â€“5D4 cross-relaxation of Tb3+ in CaF2 thin films. Journal of Luminescence, 2022, 249, 119041.	3.1	2
24	Recent advances in microwave synthesis for photoluminescence and photocatalysis. Materials Today Communications, 2022, 32, 103890.	1.9	15
25	Photocatalytic Decomposition of an Azo Dye Using Transition-Metal-Doped Tungsten and Molybdenum Carbides. ACS Omega, 2022, 7, 23401-23411.	3.5	6
26	Energy transfer mechanism in Eu3+ doped tin oxide nanophosphors for red solid state lighting. Journal of Luminescence, 2022, 250, 119085.	3.1	1
27	Crystal phase modified blue upconversion on Tm³⁺/Yb³⁺:BCZT ceramic phosphor benefits multifunctionality in white-light applications. Dalton Transactions, 2022, 51, 11515-11525.	3.3	5
28	Exploration of commercially available phosphors for thermoluminescence dosimetry. , 2022, , 71-98.		0
29	Rare-earth-activated phosphors for forensic applications. , 2022, , 215-246.		0
30	Thermoluminescent materials for high-energy dosimetry. , 2022, , 211-251.		0
31	Introduction to phosphors and luminescence. , 2022, , 3-41.		1
32	Synthesis and Luminescence Characterization of Downconversion and Downshifting Phosphor for Efficiency Enhancement of Solar Cells: Perspectives and Challenges. ACS Applied Electronic Materials, 2022, 4, 3354-3391.	4.3	9
33	Upconversion process in BaY₂F₈:Yb³⁺,Ho³⁺ phosphor for optical thermometry. Luminescence, 2021, 36, 1847-1850.	2.9	8
34	Biosynthesis of BiVO4 nanorods using Callistemon viminalis extracts: Photocatalytic degradation of methylene blue. Materials Today: Proceedings, 2021, 36, 328-335.	1.8	12
35	Luminescence, structure and insight on the inversion degree from normal to inverse spinel in a ZnAl(2â^')Fe3+O4 system. Boletin De La Sociedad Espanola De Ceramica Y Vidrio, 2021, 60, 147-162.	1.9	16
36	Synthesis, surface and photoluminescence properties of Sm3+ doped Î±-Bi2O3. Journal of Alloys and Compounds, 2021, 854, 157221.	5.5	19

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37	Luminescent behaviour of SrF2 and CaF2 crystals doped with Eu ions under different annealing temperatures. Journal of Alloys and Compounds, 2021, 858, 157741.	5.5	7
38	Color tuning of the Ba1.96Mg(PO4)2:0.04Eu2+ phosphor induced by the chemical unit co-substitution of the (BO3)3â^' anion group. Journal of Alloys and Compounds, 2021, 864, 158124.	5.5	8
39	Structural properties and luminescence dynamics of CaZrO₃:Eu³⁺ phosphors. Inorganic Chemistry Frontiers, 2021, 8, 821-836.	6.0	24
40	Power-dependent upconversion luminescence properties of self-sensitized Er₂WO₆ phosphor. Dalton Transactions, 2021, 50, 229-239.	3.3	20
41	Sr4Al14O25: Eu2+, Dy3+@ZnO nanocomposites as highly efficient visible light photocatalysts for the degradation of aqueous methyl orange. Journal of Alloys and Compounds, 2021, 860, 158370.	5.5	16
42	Low temperature mechano-chemical synthesis of La2(MoO4)3:Eu3+ nanophosphors: Cathodoluminescence properties. Materials Letters, 2021, 285, 129055.	2.6	1
43	Color tunable cathodoluminescence properties of RE2WO6:Ln3+ (RE, Ln = Er3+ and Tm3+) phosphor and its microscopic imaging. Materials Research Bulletin, 2021, 134, 111114.	5.2	2
44	Influence of SO42â^' anionic group substitution on the enhanced photoluminescence behaviour of red emitting CaMoO4:Eu3+ phosphor. Journal of Alloys and Compounds, 2021, 854, 157022.	5.5	21
45	Equilibrium segregation in the stressed Ni(111)(Au) nano-films on inert substrate. Journal of Materials Science, 2021, 56, 6217-6226.	3.7	4
46	Review on recent progress in metalâ€“organic framework-based materials for fabricating electrochemical glucose sensors. Journal of Materials Chemistry B, 2021, 9, 7927-7954.	5.8	55
47	Luminescent MoS₂ Quantum Dots with Tunable Operating Potential for Energy-Enhanced Aqueous Supercapacitors. ACS Omega, 2021, 6, 4542-4550.	3.5	18
48	Blue and near infrared luminescence degradation by electron beam irradiation in Y2O3:Tm3+ nanophosphors. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2021, 39, 022805.	1.2	2
49	Grain boundary diffusion in bilayered Ag/Cu thin film under diffusion-induced and intrinsic stresses. Physica Scripta, 2021, 96, 055706.	2.5	1
50	Study of luminescence from terbium doped strontium borate nanophosphors in PMMA. Applied Physics A: Materials Science and Processing, 2021, 127, 1.	2.3	2
51	Colour tuning from violet to blue emission stimulated by various nickel oxide nanostructures: Influence of bias voltage towards volatile organic compounds vapours. Applied Surface Science, 2021, 542, 148634.	6.1	10
52	Preferential sputtering in quantitative sputter depth profiling of multi-element thin films. Thin Solid Films, 2021, 721, 138545.	1.8	6
53	Blue-emitting Ca3Mg3(PO4)4:Eu2+ phosphor: Study of electron-vibrational interaction in the 5d states of Eu2+ ions. Optical Materials, 2021, 114, 110959.	3.6	5
54	Extremely sensitive and selective flammable liquefied hydrocarbon gas sensing and inter-dependence of fluctuating operating temperature and resistance: Perspective of rare-earth doped cobalt nanoferrites. Journal of Alloys and Compounds, 2021, 859, 157846.	5.5	12

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55	A Model for Adsorption and Diffusion in Water Vapor Barrier Films. Physica Status Solidi (B): Basic Research, 2021, 258, 2000609.	1.5	10
56	Thermoluminescence behavior of gamma irradiated Y2O3:Sm3+ nanophosphor. Journal of Luminescence, 2021, 232, 117855.	3.1	8
57	Synthesis and characterization of europium doped zinc selenide thin films prepared by photo-assisted chemical bath technique for luminescence application. Materials Chemistry and Physics, 2021, 262, 124303.	4.0	11
58	Fabrication of TiO2 nanofibers based sensors for enhanced CH4 performance induced by notable surface area and acid treatment. Vacuum, 2021, 187, 110102.	3.5	23
59	Synthesis of biocompatible chitosan functionalized Ag decorated biocomposite for effective antibacterial and anticancer activity. International Journal of Biological Macromolecules, 2021, 178, 270-282.	7.5	17
60	Kinetics of surface and interface segregation in stressed nano-films on inert substrate. Journal of Applied Physics, 2021, 129, 185305.	2.5	1
61	Investigation of thermoluminescence response and kinetic parameters of CaMgB2O5: Tb3+ phosphor against UV-C radiation for dosimetric application. Journal of Materials Science: Materials in Electronics, 2021, 32, 17418-17426.	2.2	4
62	Optical limiting applications of resonating plasmonic Au nanoparticles in a dielectric glass medium. Nanotechnology, 2021, 32, 345709.	2.6	35
63	A comprehensive comparison study on magnetic behaviour, defects-related emission and Ni substitution to clarify the origin of enhanced acetone detection capabilities. Sensors and Actuators B: Chemical, 2021, 339, 129860.	7.8	9
64	Improved BTEX gas sensing characteristics of thermally treated TiO2 hierarchical spheres manifested by high-energy {001} crystal facets. Sensors and Actuators B: Chemical, 2021, 338, 129774.	7.8	17
65	Cobalt doping induced shape transformation and its effect on luminescence in zinc oxide rod-like nanostructures. Journal of Alloys and Compounds, 2021, 868, 159189.	5.5	20
66	Structural and spectral studies of highly pure red-emitting Ca3B2O6:Eu3+ phosphors for white light emitting diodes. Journal of Alloys and Compounds, 2021, 869, 159363.	5.5	39
67	Novel rare earth metalâ€“doped one-dimensional TiO2 nanostructures: Fundamentals and multifunctional applications. Materials Today Sustainability, 2021, 13, 100066.	4.1	66
68	Photoluminescence of Bi3+ doped in YOF phosphor as an activator. Optical Materials, 2021, 119, 111291.	3.6	13
69	Structural, surface and luminescent properties of SrF2:Eu annealed thin films. Vacuum, 2021, 191, 110362.	3.5	8
70	Defects induced enhancement of antifungal activities of Zn doped CuO nanostructures. Applied Surface Science, 2021, 560, 150026.	6.1	50
71	Synthesis of Tm2WO6:Er3+ upconversion phosphor for high-contrast imaging of latent-fingerprints. Journal of Alloys and Compounds, 2021, 878, 160386.	5.5	14
72	Electron beam irradiation studies of ZnGa2O4:Mn2+ green phosphor. Vacuum, 2021, 192, 110447.	3.5	5

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73	Evaluation of the effects of Au addition into ZnFe2O4 nanostructures on acetone detection capabilities. Materials Research Bulletin, 2021, 142, 111395.	5.2	15
74	Engineering of rare-earth Eu3+ ions doping on p-type NiO for selective detection of toluene gas sensing and luminescence properties. Sensors and Actuators B: Chemical, 2021, 347, 130530.	7.8	32
75	Enhanced upconversion emission of Er3+-Yb3+ co-doped Ba5(PO4)3OH powder phosphor for application in photodynamic therapy. Sensors and Actuators A: Physical, 2021, 331, 113014.	4.1	6
76	Interface analysis of SrWO4:Er3+-Yb3+/Si thin films prepared by radio frequency magnetron sputtering for upconversion emission. Physica B: Condensed Matter, 2021, 623, 413349.	2.7	3
77	The role of sulfate ions on distinctive defect emissions in ZnO:Ce3+ nanophosphors - A study on the application in color display systems. Journal of Luminescence, 2021, 240, 118462.	3.1	10
78	TiO₂ Nanowires for Humidity-Stable Gas Sensors for Toluene and Xylene. ACS Applied Nano Materials, 2021, 4, 702-716.	5.0	54
79	Enhanced Propanol Response Behavior of ZnFe2O4 NP-Based Active Sensing Layer Induced by Film Thickness Optimization. Processes, 2021, 9, 1791.	2.8	4
80	State of Art of Spinel Ferrites Enabled Humidity Sensors. Topics in Mining, Metallurgy and Materials Engineering, 2021, , 437-475.	1.6	2
81	Ferrites as an Alternative Source of Renewable Energy for Hydroelectric Cell. Topics in Mining, Metallurgy and Materials Engineering, 2021, , 399-436.	1.6	1
82	Study of photoluminescence and nonlinear optical behaviour of AgCu nanoparticles for nanophotonics. Nano Structures Nano Objects, 2021, 28, 100807.	3.5	11
83	Effect of oxygen partial pressure during pulsed laser deposition on the emission of Eu doped ZnO thin films. Physica B: Condensed Matter, 2020, 576, 411713.	2.7	17
84	Effect of background atmosphere and substrate temperature on SrO:Bi3+(0.2â€¯mol%) thin films produced using pulsed laser deposition with different lasers. Physica B: Condensed Matter, 2020, 581, 411757.	2.7	4
85	Pulsed laser deposition of a ZnO:Eu3+ thin film: Study of the luminescence and surface state under electron beam irradiation. Applied Surface Science, 2020, 502, 144281.	6.1	21
86	LaBO3 (B= Fe, Co) nanofibers and their structural, luminescence and gas sensing characteristics. Physica B: Condensed Matter, 2020, 578, 411883.	2.7	9
87	Remarkable influence of alkaline earth ions on the enhancement of fluorescence from Eu3+ ion doped in sodium ortho-phosphate phosphors. Journal of Molecular Structure, 2020, 1203, 127375.	3.6	24
88	Characterization of the incorporated ZnO doped and co-doped with Ce3+ and Eu3+ nanophosphor powders into PVC polymer matrix. Journal of Molecular Structure, 2020, 1202, 127339.	3.6	17
89	Synergistic effect from the dual oxidation states of europium in the color-tuning of Ca3Mg3(PO4)4:Eu2+, Eu3+ thermometric phosphor. Materials Research Bulletin, 2020, 122, 110644.	5.2	22
90	Gas sensors based on CeO2 nanoparticles prepared by chemical precipitation method and their temperature-dependent selectivity towards H2S and NO2 gases. Applied Surface Science, 2020, 505, 144356.	6.1	67

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91	Design of porous p-type LaCoO3 nanofibers with remarkable response and selectivity to ethanol at low operating temperature. Sensors and Actuators B: Chemical, 2020, 308, 127670.	7.8	35
92	A novel near white light emitting phosphor KSrYSi2O7:Dy3+: Synthesis, characterization and luminescence properties. Vacuum, 2020, 174, 109179.	3.5	26
93	Luminescence and biological properties of Ag doped Dy:(ZnOâ€“Li₂Oâ€“Na₂Oâ€“P₂O₅) glass. Advances in Applied Ceramics, 2020, 119, 144-149.	1.1	2
94	Study on the role of growth time on structural, morphological and optical properties of un-capped and L-cyst.-capped ZnO nanorods grown on a GZO seeded thin film layer from an aqueous solution. Journal of Alloys and Compounds, 2020, 821, 153459.	5.5	5
95	Luminescence and energy transfer of color-tunable Lu2MgAl4SiO12:Eu2+,Ce3+,Mn2+ phosphors. Journal of Rare Earths, 2020, 38, 506-513.	4.8	31
96	Origin of visible and near IR upconversion in Yb3+-Tm3+-Er3+ doped BaMgF4 phosphor through energy transfer and cross-relaxation processes. Optical Materials, 2020, 99, 109511.	3.6	5
97	Synthesis of silver incorporated lithium doped zinc oxide nanocomposites for in-vitro biorational evaluation of Candiasis and Cryptococcosis. Applied Surface Science, 2020, 506, 144800.	6.1	1
98	Cathodoluminescence properties of monoclinic phased reddish-orange emitting BaY2(MoO4)4:Eu3+ phosphor. Optical Materials, 2020, 99, 109604.	3.6	8
99	Effect of hydrazine hydrate as complexing agent in the synthesis of zinc selenide thin films by chemical bath deposition. Thin Solid Films, 2020, 693, 137707.	1.8	6
100	A review on the advancements in phosphor-converted light emitting diodes (pc-LEDs): Phosphor synthesis, device fabrication and characterization. Progress in Materials Science, 2020, 109, 100622.	32.8	373
101	Facile control of room temperature nitrogen dioxide gas selectivity induced by copper oxide nanoplatelets. Journal of Colloid and Interface Science, 2020, 560, 755-768.	9.4	26
102	Size-tunable ferromagnetic ZnFe2O4 nanoparticles and their ethanol detection capabilities. Applied Surface Science, 2020, 508, 144863.	6.1	35
103	Microwave-assisted synthesis of blue-green NiAl2O4 nanoparticle pigments with high near-infrared reflectance for indoor cooling. Journal of Alloys and Compounds, 2020, 819, 152991.	5.5	22
104	Structural and luminescence properties of Y2O3:Eu3+red phosphor by incorporation of Ga3+ and Bi3+ions. Materials Research Bulletin, 2020, 124, 110752.	5.2	16
105	Multiple Substitution Strategies toward Tunable Luminescence in Lu₂MgAl₄SiO₁₂:Eu²⁺ Phosphors. Inorganic Chemistry, 2020, 59, 1405-1413.	4.0	58
106	LSPR-mediated improved upconversion emission on randomly distributed gold nanoparticles array. New Journal of Chemistry, 2020, 44, 19672-19682.	2.8	11
107	Photoluminescence, thermoluminescence, and cathodoluminescence of optimized cubic Gd2O3:Bi phosphor powder. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2020, 38, .	2.1	8
108	Preparation and characterization of Ce doped ZnO nanomaterial for photocatalytic and biological applications. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2020, 261, 114780.	3.5	41

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109	Neodymium YAG laser chemical vapor deposition growth of luminescent Mo2S3 nanocrystals using bulk MoS2 and its structural, optical properties and caspase-mediated apoptosis in THP-1 monocytic cells. Materials Today Chemistry, 2020, 17, 100315.	3.5	3
110	Influences of Substrate Temperatures and Oxygen Partial Pressures on the Crystal Structure, Morphology and Luminescence Properties of Pulsed Laser Deposited Bi2O3:Ho3+ Thin Films. Coatings, 2020, 10, 1168.	2.6	7
111	Latest Development on Pulsed Laser Deposited Thin Films for Advanced Luminescence Applications. Coatings, 2020, 10, 1078.	2.6	61
112	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
113	Down-conversion of YOF: Pr3+, Yb3+ phosphor. Optical Materials, 2020, 110, 110516.	3.6	11
114	Ionic diffusion in iPP: DC electrical conductivity. Surfaces and Interfaces, 2020, 21, 100772.	3.0	2
115	Electronic and Simple Oscillatory Conduction in Ferrite Gas Sensors: Gas-Sensing Mechanisms, Long-Term Gas Monitoring, Heat Transfer, and Other Anomalies. ACS Applied Materials & Interfaces, 2020, 12, 43231-43249.	8.0	26
116	Structural and morphological characterization of photoluminescent cerium-doped near UV-blue sodium ortho-phosphate phosphors. Journal of Luminescence, 2020, 226, 117409.	3.1	10
117	Comparison of the thermoluminescence properties of NaCaPO4:Dy3+ phosphors irradiated by 75ÂMeVÂC6+ ion and Î³-rays. Journal of Luminescence, 2020, 224, 117274.	3.1	11
118	Enhanced luminescence and photocatalytic activity of Bi2O3:Ho3+ needles. Journal of Alloys and Compounds, 2020, 842, 155641.	5.5	27
119	Photoactive CdO:TiO2 nanocomposites for dyes degradation under visible light. Materials Chemistry and Physics, 2020, 253, 123191.	4.0	17
120	Structural and luminescence properties of thermally stable cool-white light emitting NaCaPO4:Dy3+ phosphor. Optik, 2020, 219, 165026.	2.9	19
121	Sensitization of Tb3+ and Dy3+ emission in Li4Ca(BO3)2 via energy transfer from Ce3+ and study of energy transfer mechanism. Optik, 2020, 218, 164977.	2.9	4
122	Effects of deposition environment and temperature on photoluminescence, particle morphology, and crystal structure of pulsed laser deposited Ga2O3 thin films. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2020, 38, .	2.1	6
123	Fabrication of a propanol gas sensor using p-type nickel oxide nanostructures: The effect of ramping rate towards luminescence and gas sensing characteristics. Materials Chemistry and Physics, 2020, 253, 123316.	4.0	27
124	Luminescent dynamics of rare earthâ€“doped CaTiO3 phosphors. , 2020, , 57-86.		3
125	Luminescence properties of rare-earth doped oxide materials. , 2020, , 345-364.		5
126	The blue luminescence of p-type NiO nanostructured material induced by defects: H2S gas sensing characteristics at a relatively low operating temperature. Applied Surface Science, 2020, 525, 146002.	6.1	56

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127	Highly luminescent ZnO based upconversion thin films grown by sol-gel spin coating. , 2020, , 327-343.		0
128	Influence of the ratio of rare earth oxyorthosilicate R2SiO5 (R = La, Y) hosts on the structure and optical properties of co-doped Pr3+ /Dy3+ phosphors. Ceramics International, 2020, 46, 26425-26433.	4.8	7
129	Red emitting non-rare earth doped LiMgBO3 phosphor for light emitting diodes. Journal of Alloys and Compounds, 2020, 830, 154622.	5.5	12
130	A new microwave approach for the synthesis of green emitting Mn2+-doped ZnAl2O4: A detailed study on its structural and optical properties. Journal of Luminescence, 2020, 226, 117482.	3.1	18
131	Influence of an adjoining cation on the luminescence performance of the Dy3+ doped A3Gd(PO4)2; (A=) Tj ETQq1 1 0.784314 rgBT /Ov	5.5	24
132	Surface, optical and photocatalytic properties of Rb doped ZnO nanoparticles. Applied Surface Science, 2020, 514, 145930.	6.1	68
133	Violet-blue-shift of emission and enhanced luminescent properties of Ca3(PO4)2:Ce3+ phosphor induced by substitution of Gd3+ ions. Current Applied Physics, 2020, 20, 696-702.	2.4	10
134	Development in the innovation of lead halide-based perovskite quantum dots from rare earth-doped garnet-based phosphors for light-emitting diodes. , 2020, , 21-56.		3
135	Luminescence properties of Eu doped ZnO PLD thin films: The effect of oxygen partial pressure. Superlattices and Microstructures, 2020, 139, 106432.	3.1	13
136	UV-irradiation effects on tuning LSPR of Cu/Ag nanoclusters in ion exchanged glass matrix and its thermodynamic behaviour. Journal of Alloys and Compounds, 2020, 823, 153820.	5.5	23
137	Role of Li⁺ ions on the surface morphology and thermoluminescence properties of Y₂O₃:Tm³⁺ nanophosphor. Luminescence, 2020, 35, 636-650.	2.9	3
138	Thermally induced structural metamorphosis of ZnO:Rb nanostructures for antibacterial impacts. Colloids and Surfaces B: Biointerfaces, 2020, 188, 110821.	5.0	17
139	Plasmonic and nonlinear optical behavior of nanostructures in glass matrix for photonics application. Materials Research Bulletin, 2020, 125, 110799.	5.2	34
140	Luminescence properties of octahedrally and tetrahedrally coordinated Mo6+ in the solid solutions: Juddâ€“Ofelt investigation. Journal of Physics and Chemistry of Solids, 2020, 144, 109519.	4.0	7
141	Observations of phonon anharmonicity and microstructure changes by the laser power dependent Raman spectra in Co doped SnO2 nanoparticles. Journal of Alloys and Compounds, 2020, 831, 154836.	5.5	21
142	Temperature-dependent response to C3H7OH and C2H5OH vapors induced by deposition of Au nanoparticles on SnO2/NiO hollow sphere-based conductometric sensors. Sensors and Actuators B: Chemical, 2020, 316, 128041.	7.8	36
143	Band gap tailoring of cauliflower-shaped CuO nanostructures by Zn doping for antibacterial applications. Journal of Alloys and Compounds, 2020, 832, 154968.	5.5	64
144	Persistent luminescence excitation spectroscopy of BaAl2O4:Eu2+,Dy3+. Physica B: Condensed Matter, 2020, 593, 411947.	2.7	12

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145	Effects of annealing temperature on the crystal structure, optical and photocatalytic properties of Bi2O3 needles. Applied Surface Science, 2020, 520, 146294.	6.1	32
146	Phase transformation on zinc selenide thin films deposited by photo-assisted chemical bath method: The effect of annealing temperature. Materials Science in Semiconductor Processing, 2020, 115, 105118.	4.0	8
147	Tools and techniques for characterization and evaluation of nanosensors. , 2020, , 85-110.		5
148	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
149	Insightful acetone gas sensing behaviour of Ce substituted MgFe2O4 spinel nano-ferrites. Journal of Materials Research and Technology, 2020, 9, 16252-16269.	5.8	23
150	The effect of annealing time on zinc selenide thin films deposited by photo-assisted chemical bath deposition. Journal of Physics and Chemistry of Solids, 2020, 140, 109381.	4.0	19
151	Charge carrier trapping processes in un-doped and BaAl₂O₄:Eu³⁺ nanophosphor for thermoluminescent dosimeter applications. Journal Physics D: Applied Physics, 2020, 53, 475305.	2.8	6
152	Luminescence in Africa: a brief overview [Invited]. Journal of the Optical Society of America B: Optical Physics, 2020, 37, A18.	2.1	4
153	Effect of annealing temperature on the spectroscopic and photoluminescence properties of CdO-ZnO nanocomposites. Journal of Modern Optics, 2020, 67, 1410-1415.	1.3	0
154	Optical properties and stability of Bi doped La2O2S. Optical Materials, 2019, 95, 109260.	3.6	10
155	Comparative study of photo- and non-photo-assisted chemical bath deposition of Zinc Selenide thin films using different volumes of hydrazine hydrate. Superlattices and Microstructures, 2019, 134, 106222.	3.1	11
156	Structural, morphological and optical properties of ZnO nanorods grown on a ZnO:Ga seeded thin film: The role of chemical bath deposition precursor concentration at constant and varying II/VI molar ratios. Thin Solid Films, 2019, 687, 137483.	1.8	5
157	Stabilizing Fluoride Phosphors: Surface Modification by Atomic Layer Deposition. Chemistry of Materials, 2019, 31, 7192-7202.	6.7	42
158	(INVITED) Ultraviolet and visible luminescence from bismuth doped materials. Optical Materials: X, 2019, 2, 100025.	0.8	32
159	Improved steady-state photoluminescence derived from the compensation of the charge-imbalance in Ca3Mg3(PO4)4:Eu3+ phosphor. Ceramics International, 2019, 45, 21709-21715.	4.8	34
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