

Hc Swart

List of Publications by Citations

Source: <https://exaly.com/author-pdf/11619602/hc-swart-publications-by-citations.pdf>

Version: 2024-04-24

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

258
papers

6,276
citations

40
h-index

61
g-index

261
ext. papers

7,299
ext. citations

4.6
avg, IF

6.49
L-index

#	Paper	IF	Citations
258	Upconversion based temperature sensing ability of Er ³⁺ /Tb ³⁺ codoped SrWO ₄ : An optical heating phosphor. <i>Sensors and Actuators B: Chemical</i> , 2015 , 209, 352-358	8.5	287
257	Origin of the red emission in zinc oxide nanophosphors. <i>Materials Letters</i> , 2013 , 101, 57-60	3.3	206
256	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	42.2	156
255	Enhanced upconversion and temperature sensing study of Er ³⁺ /Tb ³⁺ codoped tungsten tellurite glass. <i>Sensors and Actuators B: Chemical</i> , 2014 , 202, 1305-1312	8.5	136
254	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	2.2	126
253	Tunable and white emission from ZnO:Tb ³⁺ nanophosphors for solid state lighting applications. <i>Chemical Engineering Journal</i> , 2014 , 255, 541-552	14.7	114
252	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	5.7	94
251	Effect of Eu doping on the photoluminescence properties of ZnO nanophosphors for red emission applications. <i>Applied Surface Science</i> , 2014 , 308, 419-430	6.7	86
250	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	9.3	83
249	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	5.7	76
248	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	5.7	74
247	Temperature-dependence on the structural, optical, and paramagnetic properties of ZnO nanostructures. <i>Applied Surface Science</i> , 2014 , 293, 62-70	6.7	70
246	Noble metal nanoparticles embedding into polymeric materials: From fundamentals to applications. <i>Advances in Colloid and Interface Science</i> , 2015 , 226, 187-202	14.3	69
245	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 500 °C. <i>Physica B: Condensed Matter</i> , 2009 , 404, 4440-4444	2.8	68
244	Luminescence dynamics and investigation of Judd-Ofelt intensity parameters of Sm ³⁺ ion containing glasses. <i>Optical Materials</i> , 2017 , 64, 171-178	3.3	63
243	Effect of Br ³⁺ ions on the structural, morphological and luminescent properties of ZnO/Si thin films. <i>Applied Surface Science</i> , 2013 , 279, 472-478	6.7	63
242	ZnS:Cu,Al,Au phosphor degradation under electron excitation. <i>Applied Surface Science</i> , 1997 , 120, 9-14	6.7	63

241	Afterglow enhancement with In ³⁺ + codoping in CaTiO ₃ :Pr ³⁺ + red phosphor. <i>Powder Technology</i> , 2013 , 237, 141-146	5.2	62
240	The oxidation of industrial FeCrMo steel. <i>Corrosion Science</i> , 2000 , 42, 1725-1740	6.8	61
239	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	8.5	54
238	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	3.8	54
237	Review of rare earth activated blue emission phosphors prepared by combustion synthesis. <i>Renewable and Sustainable Energy Reviews</i> , 2015 , 52, 596-612	16.2	53
236	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	3.8	53
235	Influence of ultrasonication times on the tunable colour emission of ZnO nanophosphors for lighting applications. <i>Ultrasonics Sonochemistry</i> , 2014 , 21, 1549-56	8.9	52
234	Generation of white-light from Dy ³⁺ doped Sr ₂ SiO ₄ phosphor. <i>Physica B: Condensed Matter</i> , 2014 , 439, 126-129	2.8	50
233	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	5.7	50
232	Photocatalytic and biological applications of Ag and Au doped ZnO nanomaterial synthesized by combustion. <i>Vacuum</i> , 2018 , 157, 508-513	3.7	48
231	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	3.9	47
230	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	6.7	47
229	Selective detection of CO at room temperature with CuO nanoplatelets sensor for indoor air quality monitoring manifested by crystallinity. <i>Applied Surface Science</i> , 2019 , 466, 545-553	6.7	46
228	Enhanced UVB emission and analysis of chemical states of Ca ₅ (PO ₄) ₃ OH:Gd ³⁺ ,Pr ³⁺ phosphor prepared by co-precipitation. <i>Journal of Physics and Chemistry of Solids</i> , 2014 , 75, 998-1003	3.9	45
227	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	3.3	45
226	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	2.8	43
225	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	5.1	43
224	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	3.3	42

223	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	9.3	42
222	X-ray photoelectron spectroscopy and luminescent properties of Y ₂ O ₃ :Bi ³⁺ phosphor. <i>Applied Surface Science</i> , 2015 , 332, 198-204	6.7	42
221	Embedded plasmonic nanostructures: synthesis, fundamental aspects and their surface enhanced Raman scattering applications. <i>International Reviews in Physical Chemistry</i> , 2016 , 35, 353-398	7	41
220	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. <i>Ceramics International</i> , 2015 , 41, 6776-6783	5.1	41
219	Luminescence of Ce doped MgAl ₂ O ₄ prepared by the combustion method. <i>Physica B: Condensed Matter</i> , 2014 , 439, 109-114	2.8	40
218	A near-UV-converted LiMgBO ₃ :Dy ³⁺ nanophosphor: Surface and spectral investigations. <i>Applied Surface Science</i> , 2015 , 329, 40-46	6.7	40
217	ZnS thin films grown on Si(100) by XeCl pulsed laser ablation. <i>Applied Surface Science</i> , 2001 , 177, 73-77	6.7	39
216	Spectroscopic studies of Sm ³⁺ /Dy ³⁺ co-doped lithium boro-silicate glasses. <i>Journal of Non-Crystalline Solids</i> , 2016 , 438, 49-58	3.9	39
215	Surface, optical and photocatalytic properties of Rb doped ZnO nanoparticles. <i>Applied Surface Science</i> , 2020 , 514, 145930	6.7	38
214	Potential of Sm ³⁺ doped LiSrVO ₄ nanophosphor to fill amber gap in LEDs. <i>Physica B: Condensed Matter</i> , 2018 , 535, 221-226	2.8	37
213	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	6.7	37
212	Luminescence investigations of Ce ³⁺ doped CaS nanophosphors. <i>Journal of Alloys and Compounds</i> , 2010 , 492, L8-L12	5.7	37
211	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	5.7	36
210	Role of silver doping on the defects related photoluminescence and antibacterial behaviour of zinc oxide nanoparticles. <i>Colloids and Surfaces B: Biointerfaces</i> , 2017 , 159, 191-199	6	36
209	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	6.7	36
208	Eu doped down shifting TiO layer for efficient dye-sensitized solar cells. <i>Journal of Colloid and Interface Science</i> , 2016 , 484, 24-32	9.3	35
207	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	2.8	35
206	The effects of Eu-concentrations on the luminescent properties of SrF ₂ :Eu nanophosphor. <i>Journal of Luminescence</i> , 2014 , 156, 150-156	3.8	34

205	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	2.8	34
204	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	5.7	33
203	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	5.6	33
202	Spectroscopic properties of Pr ³⁺ ions embedded in lithium borate glasses. <i>Physica B: Condensed Matter</i> , 2016 , 480, 111-115	2.8	33
201	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	2.8	33
200	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	6.7	33
199	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	3.9	32
198	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	3.6	32
197	Properties of flower-like ZnO nanostructures synthesized using the chemical bath deposition. <i>Materials Science in Semiconductor Processing</i> , 2014 , 27, 33-40	4.3	32
196	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	3.7	32
195	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	6.7	32
194	Luminescence investigations on LiAl ₅ O ₈ :Tb ³⁺ nanocrystalline phosphors. <i>Current Applied Physics</i> , 2011 , 11, 341-345	2.6	32
193	Synthesis and characterization of Ce ³⁺ doped silica (SiO ₂) nanoparticles. <i>Journal of Luminescence</i> , 2011 , 131, 1249-1254	3.8	32
192	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	4.4	31
191	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	3.8	31
190	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	5.7	30
189	Characterization of annealed Eu ³⁺ -doped ZnO flower-like morphology synthesized by chemical bath deposition method. <i>Optical Materials</i> , 2016 , 60, 294-304	3.3	30
188	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	3	30

187	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	6.7	30
186	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	5.7	29
185	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	6.7	29
184	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	6.7	29
183	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	5.7	28
182	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	5.7	28
181	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	5.7	27
180	Luminescent properties, intensity degradation and X-ray photoelectron spectroscopy analysis of CaS:Eu ²⁺ powder. <i>Optical Materials</i> , 2015 , 40, 68-75	3.3	27
179	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	5.7	26
178	Extracting inter-diffusion parameters of TiC from AES depth profiles. <i>Applied Surface Science</i> , 2003 , 205, 231-239	6.7	26
177	Electron beam-induced degradation of zinc sulfide-based phosphors. <i>Surface Science</i> , 2000 , 451, 174-181	6.8	26
176	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	4.4	25
175	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	2.8	25
174	Enhanced exciton emission from ZnO nano-phosphor induced by Yb ³⁺ ions. <i>Materials Letters</i> , 2014 , 119, 71-74	3.3	25
173	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	6.7	25
172	Structural, surface and luminescence properties of Ca ₃ B ₂ O ₆ :Dy ³⁺ phosphors. <i>Ceramics International</i> , 2016 , 42, 5743-5753	5.1	24
171	Spectral and surface investigations on Eu ³⁺ doped K ₃ Y(PO ₄) ₂ nanophosphor: A promising orange-red phosphor for white light-emitting diodes. <i>Optical Materials</i> , 2014 , 36, 996-1001	3.3	24
170	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. <i>Journal of Alloys and Compounds</i> , 2010 , 508, 262-265	5.7	24

169	Tailoring and optimization of optical properties of CdO thin films for gas sensing applications. <i>Physica B: Condensed Matter</i> , 2018 , 535, 314-318	2.8	24
168	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	5.1	23
167	Photoluminescence and thermoluminescence properties of Pr ³⁺ doped ZnTa ₂ O ₆ phosphor. <i>Powder Technology</i> , 2013 , 247, 147-150	5.2	23
166	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	5.7	23
165	Efficient resonance energy transfer study from Ce ³⁺ to Tb ³⁺ in BaMgF ₄ . <i>Materials Chemistry and Physics</i> , 2017 , 187, 233-244	4.4	22
164	PL and CL degradation and characteristics of SrAl ₂ O ₄ : Eu ²⁺ , Dy ³⁺ phosphors. <i>Physica B: Condensed Matter</i> , 2012 , 407, 1664-1667	2.8	22
163	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	5.1	22
162	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	2.8	21
161	Photon upconversion in Ho ³⁺ -Yb ³⁺ embedded tungsten tellurite glass. <i>Journal of Luminescence</i> , 2017 , 192, 757-760	3.8	21
160	Dopant distribution and influence of sonication temperature on the pure red light emission of mixed oxide phosphor for solid state lighting. <i>Ultrasonics Sonochemistry</i> , 2016 , 28, 79-89	8.9	20
159	Synthesis, spectral and surface investigation of novel CaMgB ₂ O ₅ :Dy ³⁺ nanophosphor for UV based white LEDs. <i>Materials Research Bulletin</i> , 2017 , 91, 140-147	5.1	20
158	Luminescence properties of Bi doped La ₂ O ₃ powder phosphor. <i>Journal of Luminescence</i> , 2019 , 209, 217-224	3.8	20
157	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	5.7	20
156	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	3.8	20
155	The effect of different gas atmospheres on luminescent properties of pulsed laser ablated SrAl ₂ O ₄ :Eu ²⁺ ,Dy ³⁺ thinfilms. <i>Journal of Luminescence</i> , 2011 , 131, 119-125	3.8	20
154	Effect of a CdO coating on the degradation of a ZnS thin film phosphor material. <i>Applied Surface Science</i> , 2002 , 187, 137-144	6.7	20
153	Synthesis and optical studies of KCaVO ₄ :Sm ³⁺ /PMMA nanocomposites. <i>Vacuum</i> , 2019 , 159, 414-422	3.7	20
152	Colour tuning and energy transfer pathways in MgAl ₂ O ₄ triply doped with 0.1% Ce ³⁺ , 0.1% Eu ²⁺ , x% Tb ³⁺ (0?x?2%) nanocrystals synthesized using sol-gel process. <i>Chemical Physics</i> , 2017 , 487, 75-86	2.3	19

151	A study on the sensing of NO ₂ and O ₂ utilizing ZnO films grown by aerosol spray pyrolysis. <i>Materials Chemistry and Physics</i> , 2015 , 162, 628-639	4.4	19
150	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	5.1	19
149	Photoluminescence properties of Ce ³⁺ -doped SrAl ₂ O ₄ prepared using the solution combustion method. <i>Physica B: Condensed Matter</i> , 2014 , 439, 177-180	2.8	19
148	Non-plasmonic enhancement of the near band edge luminescence from ZnO using Ag nanoparticles. <i>Journal of Luminescence</i> , 2017 , 182, 263-267	3.8	19
147	The effect of Mg ²⁺ ions on the photoluminescence of Ce ³⁺ -doped silica. <i>Physica B: Condensed Matter</i> , 2009 , 404, 4499-4503	2.8	19
146	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	6.7	18
145	The cathodoluminescence degradation and surface characterization of EuCa ₃ (PO ₄) ₂ :Tb phosphor. <i>Optical Materials</i> , 2012 , 34, 1398-1405	3.3	18
144	Structural and luminescence responses of CaMoO ₄ nano phosphors synthesized by hydrothermal route to swift heavy ion irradiation: Elemental and spectral stability. <i>Acta Materialia</i> , 2017 , 124, 109-119	8.4	18
143	Concentration quenching, surface and spectral analyses of SrF ₂ :Pr ³⁺ prepared by different synthesis techniques. <i>Optical Materials</i> , 2015 , 42, 204-209	3.3	18
142	Degradation of Y ₂ SiO ₅ :Ce phosphor powders. <i>Journal of Luminescence</i> , 2007 , 126, 37-42	3.8	18
141	Surface characterization and cathodoluminescence degradation of ZnO thin films. <i>Applied Surface Science</i> , 2017 , 424, 412-420	6.7	17
140	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	3.4	17
139	Facile precipitation synthesis of green-emitting BaY ₂ F ₈ :Yb ³⁺ , Ho ³⁺ upconverting phosphor. <i>Ceramics International</i> , 2019 , 45, 14205-14213	5.1	17
138	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	5.7	17
137	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	5.1	17
136	(INVITED) Ultraviolet and visible luminescence from bismuth doped materials. <i>Optical Materials: X</i> , 2019 , 2, 100025	1.7	17
135	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	6.7	17
134	The effect of different annealing temperatures on the structure and luminescence properties of Y ₂ O ₃ :Bi ³⁺ thin films fabricated by spin coating. <i>Applied Surface Science</i> , 2016 , 365, 93-98	6.7	16

133	Effect of doping concentration on the conductivity and optical properties of p-type ZnO thin films. <i>Physica B: Condensed Matter</i> , 2016 , 480, 31-35	2.8	16
132	Photoluminescence and cathodoluminescence of spin coated ZnO films with different concentration of Eu ³⁺ ions. <i>Vacuum</i> , 2019 , 169, 108889	3.7	16
131	Improved luminescence properties of pulsed laser deposited Y ₃ (Al,Ga)5O ₁₂ :Tb thin films by post deposition annealing. <i>Journal of Luminescence</i> , 2013 , 143, 201-206	3.8	16
130	Investigation of thermoluminescence response and trapping parameters of 120 MeV Ag ⁹⁺ and Eray exposed NaSrBO ₃ :Dy ³⁺ phosphor for dosimetry. <i>Journal of Alloys and Compounds</i> , 2017 , 691, 919-928	5.7	16
129	P-type conductivity in doped and codoped ZnO thin films synthesized by RF magnetron sputtering. <i>Journal of Modern Optics</i> , 2015 , 62, 1368-1373	1.1	16
128	Characterization of Y ₂ SiO ₅ :Ce thin films. <i>Optical Materials</i> , 2007 , 29, 1338-1343	3.3	16
127	Effect of substrate temperature and post annealing temperature on ZnO:Zn PLD thin film properties. <i>Optical Materials</i> , 2017 , 74, 139-149	3.3	15
126	Radiative energy transfer in ZnAl ₂ O ₄ :0.1% Ce ³⁺ , x% Eu ³⁺ nanophosphor synthesized by sol-gel process. <i>Physica B: Condensed Matter</i> , 2015 , 468-469, 11-20	2.8	15
125	Thermoluminescence of calcium phosphate co-doped with gadolinium and praseodymium. <i>Radiation Measurements</i> , 2015 , 77, 26-33	1.5	15
124	Structural and plasmonic properties of noble metal doped ZnO nanomaterials. <i>Physica B: Condensed Matter</i> , 2018 , 535, 114-118	2.8	15
123	Temperature induced upconversion behaviour of Ho ³⁺ +Yb ³⁺ codoped yttrium oxide films prepared by pulsed laser deposition. <i>Journal of Alloys and Compounds</i> , 2016 , 672, 190-196	5.7	15
122	Surface chemical changes of CaTiO ₃ :Pr ³⁺ upon electron beam irradiation. <i>Physica B: Condensed Matter</i> , 2012 , 407, 1517-1520	2.8	15
121	Cathodoluminescent stability of rare earth tantalate phosphors. <i>Journal of Luminescence</i> , 2013 , 140, 14-20	3.8	15
120	Effects of SnO ₂ surface coating on the degradation of ZnS thin film phosphor. <i>Applied Surface Science</i> , 2007 , 253, 8513-8516	6.7	15
119	Surface and spectral studies of Sm ³⁺ doped Li ₄ Ca(BO ₃) ₂ phosphors for white light emitting diodes. <i>Journal of Alloys and Compounds</i> , 2018 , 738, 97-104	5.7	15
118	Band gap engineering, enhanced morphology and photoluminescence of un-doped, Ga and/or Al-doped ZnO nanoparticles by reflux precipitation method. <i>Journal of Luminescence</i> , 2018 , 195, 54-60	3.8	15
117	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	5.7	14
116	Degradation of ZnS:Cu,Al,Au phosphor powder in different gas mixtures. <i>Journal of Luminescence</i> , 2004 , 109, 93-102	3.8	14

115	Effect of PLD growth atmosphere on the physical properties of ZnO:Zn thin films. <i>Optical Materials</i> , 2017 , 74, 76-85	3.3	13
114	Energy transfer study between Ce ³⁺ and Tb ³⁺ ions in a calcium fluoride crystal for solar cell applications. <i>Journal of Luminescence</i> , 2017 , 187, 96-101	3.8	13
113	The effect of different substrate temperatures on the structure and luminescence properties of Y ₂ O ₃ :Bi ³⁺ thin films. <i>Solid State Sciences</i> , 2016 , 53, 30-36	3.4	13
112	Structural, luminescent and thermal properties of blue SrAl ₂ O ₄ :Eu ²⁺ , Dy ³⁺ phosphor filled low-density polyethylene composites. <i>Physica B: Condensed Matter</i> , 2009 , 404, 4504-4508	2.8	13
111	Facile control of room temperature nitrogen dioxide gas selectivity induced by copper oxide nanoplatelets. <i>Journal of Colloid and Interface Science</i> , 2020 , 560, 755-768	9.3	13
110	Role of deposition time on the properties of ZnO:Tb(3+) thin films prepared by pulsed laser deposition. <i>Journal of Colloid and Interface Science</i> , 2016 , 474, 129-36	9.3	13
109	The effect of different annealing temperatures on the structure and luminescence properties of Y ₂ O ₃ :Bi ³⁺ thin film fabricated by RF magnetron sputtering. <i>Applied Surface Science</i> , 2017 , 424, 407-411	6.7	12
108	Cathodoluminescence degradation study of the green luminescence of ZnO nanorods. <i>Applied Surface Science</i> , 2019 , 484, 105-111	6.7	12
107	Luminescence and electron degradation properties of Bi doped CaO phosphor. <i>Applied Surface Science</i> , 2015 , 356, 1064-1069	6.7	12
106	Self-assembled Cu doped CdS nanostructures on flexible cellulose acetate substrates using low cost sol-gel route. <i>Nano Structures Nano Objects</i> , 2018 , 16, 1-8	5.6	12
105	Host sensitized near-infrared emission in Nd ³⁺ doped different alkaline-sodium-phosphate phosphors. <i>Physica B: Condensed Matter</i> , 2018 , 535, 29-34	2.8	12
104	Synthesis and characterization of Y ₂ O ₃ :Eu ³⁺ phosphors using the Sol-Combustion method. <i>Physica B: Condensed Matter</i> , 2014 , 439, 181-184	2.8	12
103	Lattice site dependent cathodoluminescence behavior and surface chemical changes in a Sr ₅ (PO ₄) ₃ F host. <i>Physica B: Condensed Matter</i> , 2012 , 407, 1505-1508	2.8	12
102	Surface characterization and luminescent properties of SrAl ₂ O ₄ :Eu ²⁺ , Dy ³⁺ nano thin films. <i>Physica B: Condensed Matter</i> , 2012 , 407, 1660-1663	2.8	12
101	Characterization of luminescent and thermal properties of long afterglow SrAl _x O _y :Eu ²⁺ ,Dy ³⁺ phosphor synthesized by combustion method. <i>Polymer Composites</i> , 2011 , 32, 219-226	3	12
100	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	3.1	12
99	Defects induced enhancement of antifungal activities of Zn doped CuO nanostructures. <i>Applied Surface Science</i> , 2021 , 560, 150026	6.7	12
98	The influence of Cr ³⁺ concentration on the structure and photoluminescence of MgAl ₂ O ₄ :0.1% Eu ³⁺ , x% Cr ³⁺ (0.15%)nanophosphor synthesized by sol-gel process. <i>Optik</i> , 2017 , 131, 705-712	2.5	11

97	Investigation of thermoluminescence characteristics of NaSrBO ₃ :Sm ³⁺ phosphor against 120 MeV Ag ⁹⁺ ion and γ irradiation prepared by different methods. <i>Journal of Luminescence</i> , 2017 , 187, 499-506	3.8	11
96	Persistent photoluminescence emission from SrTa ₂ O ₆ :Pr ³⁺ phosphor prepared at different temperatures. <i>Ceramics International</i> , 2015 , 41, 8828-8836	5.1	11
95	Physical and optical properties of lithium borosilicate glasses doped with Dy ³⁺ ions. <i>Physica B: Condensed Matter</i> , 2018 , 535, 194-197	2.8	11
94	Comparison of Y ₂ O ₃ :Bi ³⁺ phosphor thin films fabricated by the spin coating and radio frequency magnetron techniques. <i>Physica B: Condensed Matter</i> , 2016 , 497, 39-44	2.8	11
93	Photon and electron beam pumped luminescence of Ho ³⁺ activated CaMoO ₄ phosphor. <i>Applied Surface Science</i> , 2017 , 423, 1169-1175	6.7	11
92	A comparative study of the effect of Ni ⁹⁺ and Au ⁸⁺ ion beams on the properties of poly(methacrylic acid) grafted gum ghatti films. <i>Radiation Physics and Chemistry</i> , 2014 , 97, 253-261	2.5	11
91	Photon emission mechanisms of different phosphors. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2009 , 267, 2630-2633	1.2	11
90	The influence of sulphur segregation on the oxidation of industrial FeCrMo steel. <i>Corrosion Science</i> , 2000 , 42, 991-1004	6.8	11
89	Characterization of crystallite morphology for doped strontium fluoride nanophosphors by TEM and XRD. <i>Physica B: Condensed Matter</i> , 2016 , 480, 169-173	2.8	10
88	A comparative study between the simulated and measured cathodoluminescence generated in ZnS:Cu, Al, Au phosphor powder. <i>Journal of Luminescence</i> , 2005 , 113, 191-198	3.8	10
87	Remarkable influence of alkaline earth ions on the enhancement of fluorescence from Eu ³⁺ ion doped in sodium ortho-phosphate phosphors. <i>Journal of Molecular Structure</i> , 2020 , 1203, 127375	3.4	10
86	Structural and luminescence properties of Y ₂ O ₃ :Eu ³⁺ -red phosphor by incorporation of Ga ³⁺ and Bi ³⁺ ions. <i>Materials Research Bulletin</i> , 2020 , 124, 110752	5.1	10
85	Fabrication of TiO ₂ nanofibers based sensors for enhanced CH ₄ performance induced by notable surface area and acid treatment. <i>Vacuum</i> , 2021 , 187, 110102	3.7	10
84	Thermoluminescence response of 120 MeV Ag ⁹⁺ and γ exposed LiMgBO ₃ :Dy ³⁺ nanophosphors for dosimetry. <i>Ceramics International</i> , 2016 , 42, 18529-18535	5.1	10
83	The effect of annealing temperature on the luminescence properties of Y ₂ O ₃ phosphor powders doped with a high concentration of Bi ³⁺ . <i>Journal of Luminescence</i> , 2016 , 180, 198-203	3.8	10
82	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	5.7	10
81	Structural and luminescence properties of thermally stable cool-white light emitting NaCaPO ₄ :Dy ³⁺ phosphor. <i>Optik</i> , 2020 , 219, 165026	2.5	9
80	Thermally induced structural metamorphosis of ZnO:Rb nanostructures for antibacterial impacts. <i>Colloids and Surfaces B: Biointerfaces</i> , 2020 , 188, 110821	6	9

79	Effect of swift heavy ion irradiation on structural, optical and luminescence properties of SrAl ₂ O ₄ :Eu ²⁺ , Dy ³⁺ nanophosphor. <i>Radiation Physics and Chemistry</i> , 2016 , 122, 48-54	2.5	9
78	Surface characterization of ZnO nanorods grown by chemical bath deposition. <i>Physica B: Condensed Matter</i> , 2016 , 480, 42-47	2.8	9
77	Structural and morphology analysis of annealed Y ₃ (Al,Ga)O ₁₂ :Tb thin films synthesized by pulsed laser deposition. <i>Applied Surface Science</i> , 2014 , 305, 732-739	6.7	9
76	Luminescence studies of a combustion-synthesized blue-green BaAl _x O _y :Eu ²⁺ ,Dy ³⁺ nanoparticles. <i>Physica B: Condensed Matter</i> , 2012 , 407, 1561-1565	2.8	9
75	Luminescence from Ce in sol-gel SiO ₂ . <i>Physica B: Condensed Matter</i> , 2012 , 407, 1595-1598	2.8	9
74	Sensitizing effects of ZnO quantum dots on red-emitting Pr ³⁺ -doped SiO ₂ phosphor. <i>Physica B: Condensed Matter</i> , 2012 , 407, 1607-1610	2.8	9
73	Dependence of luminescence properties of CaTiO ₃ :Pr ³⁺ on different TiO ₂ polymorphs. <i>Powder Technology</i> , 2014 , 256, 477-481	5.2	9
72	Effect of different annealing temperatures on the optical properties of Y ₃ (Al,Ga)O ₁₂ :Tb thin films grown by PLD. <i>Physica B: Condensed Matter</i> , 2014 , 439, 77-82	2.8	9
71	Effects of Ce ³⁺ concentration, beam voltage and current on the cathodoluminescence intensity of SiO ₂ :Pr ³⁺ +Ce ³⁺ nanophosphor. <i>Journal of Alloys and Compounds</i> , 2011 , 509, 2986-2992	5.7	9
70	Luminescence response and CL degradation of combustion synthesized spherical SiO ₂ :Ce nanophosphor. <i>Materials Research Bulletin</i> , 2011 , 46, 2359-2366	5.1	9
69	Low temperature effect on the electron beam induced degradation of ZnS:Cu,Al,Au phosphor powders. <i>Applied Surface Science</i> , 2002 , 193, 77-82	6.7	9
68	Characterization of the incorporated ZnO doped and co-doped with Ce ³⁺ and Eu ³⁺ nanophosphor powders into PVC polymer matrix. <i>Journal of Molecular Structure</i> , 2020 , 1202, 127339	3.4	9
67	Cathodoluminescence degradation of Bi doped La ₂ O ₃ and La ₂ O ₂ S phosphor powders. <i>Physica B: Condensed Matter</i> , 2019 , 574, 411659	2.8	8
66	Analysis of the electron-vibrational interaction in the 5d states of Eu ²⁺ ions in LiSrPO ₄ host matrix. <i>Journal of Luminescence</i> , 2019 , 214, 116564	3.8	8
65	The influence of Ag ⁹⁺ ion irradiation on the structural, optical and luminescence properties of Sm ³⁺ doped NaSrBO ₃ : Stability of color emission. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2015 , 351, 27-34	1.2	8
64	Optical and Chemical Properties of Alq ₃ :PMMA Blended Thin Films. <i>Materials Today: Proceedings</i> , 2015 , 2, 4019-4027	1.4	8
63	Luminescence properties of Y ₂ O ₃ :Bi ³⁺ , Yb ³⁺ co-doped phosphor for application in solar cells. <i>Physica B: Condensed Matter</i> , 2018 , 535, 102-105	2.8	8
62	Trap characteristics of UV-activated Y ₃ (Al,Ga)O ₁₂ :Ce ³⁺ phosphors. <i>Optik</i> , 2016 , 127, 3918-3924	2.5	8

61	Structural and luminescence properties of SrAl ₂ O ₄ :Eu ²⁺ ,Dy ³⁺ ,Nd ³⁺ phosphor thin films grown by pulsed laser deposition. <i>Physica B: Condensed Matter</i> , 2016 , 480, 116-124	2.8	8
60	The influence of substrate temperature and deposition pressure on pulsed laser deposited thin films of CaS:Eu ²⁺ phosphors. <i>Physica B: Condensed Matter</i> , 2016 , 480, 186-190	2.8	8
59	Improvement of the photoluminescent intensity of ZnTa ₂ O ₆ :Pr ³⁺ phosphor. <i>Materials Research Bulletin</i> , 2014 , 55, 150-155	5.1	8
58	Colour tuneable emission from (Y _{1.995} Gax)Zr ₂ O ₇ :Bi ³⁺ phosphor prepared by a sol-gel combustion method. <i>Materials Letters</i> , 2017 , 186, 345-348	3.3	8
57	Structural and optical studies of ZnAl ₂ O ₄ :x% Cu ²⁺ (0. <i>Optical Materials</i> , 2017 , 64, 26-32	3.3	8
56	Electron beam induced green luminescence and degradation study of CaS:Ce nanocrystalline phosphors for FED applications. <i>Applied Surface Science</i> , 2010 , 256, 1720-1724	6.7	8
55	Modelling the effect of a thin ZnO layer on the cathodoluminescence generated in ZnS phosphor powders. <i>Thin Solid Films</i> , 2002 , 408, 260-269	2.2	8
54	Effect of oxygen partial pressure during pulsed laser deposition on the emission of Eu doped ZnO thin films. <i>Physica B: Condensed Matter</i> , 2020 , 576, 411713	2.8	8
53	Pulsed laser deposition of a ZnO:Eu ³⁺ thin film: Study of the luminescence and surface state under electron beam irradiation. <i>Applied Surface Science</i> , 2020 , 502, 144281	6.7	8
52	Synthesis, surface and photoluminescence properties of Sm ³⁺ doped Bi ₂ O ₃ . <i>Journal of Alloys and Compounds</i> , 2021 , 854, 157221	5.7	8
51	A potential green emitting citrate gel synthesized NaSrBO ₃ :Tb ³⁺ phosphor for display application. <i>Physica B: Condensed Matter</i> , 2018 , 535, 189-193	2.8	7
50	Near infrared quantum cutting of Na ⁺ and Eu ²⁺ -Yb ³⁺ couple activated SrF ₂ crystal. <i>Optical Materials</i> , 2016 , 60, 521-525	3.3	7
49	Optical properties and stability of Bi doped La ₂ O ₂ S. <i>Optical Materials</i> , 2019 , 95, 109260	3.3	7
48	Luminescent properties and quenching effects of Pr ³⁺ co-doping in SiO ₂ :Tb ³⁺ /Eu ³⁺ nanophosphors. <i>Optical Materials</i> , 2014 , 36, 732-739	3.3	7
47	Thermoluminescence response in 60Co gamma rays, 100 MeV Si ⁸⁺ and 150 MeV Au ⁹⁺ irradiated Y ₂ O ₃ :Ho ³⁺ nanophosphor. <i>Journal of Alloys and Compounds</i> , 2019 , 778, 554-565	5.7	7
46	Energy transfer upconversion in Er ³⁺ -Tm ³⁺ codoped sodium silicate glass. <i>Physica B: Condensed Matter</i> , 2018 , 535, 330-332	2.8	7
45	Surface and chemical characterization of ZnO:Eu ³⁺ /Yb ³⁺ spin coated thin films using SEM-CL and TOF-SIMS. <i>Vacuum</i> , 2018 , 157, 376-383	3.7	7
44	The effect of pH on the luminescence properties of Y ₂ O ₃ :Bi phosphor powders synthesised using co-precipitation. <i>Vacuum</i> , 2018 , 157, 237-242	3.7	7

43	Luminescence properties of Eu doped ZnO PLD thin films: The effect of oxygen partial pressure. <i>Superlattices and Microstructures</i> , 2020 , 139, 106432	2.8	6
42	Development of an optical thermometry system for phosphor materials. <i>Vacuum</i> , 2018 , 155, 702-711	3.7	6
41	Photoluminescence and thermoluminescence studies of 100 MeV Si ⁸⁺ ion irradiated Y ₂ O ₃ :Dy ³⁺ nanophosphor. <i>Journal of Luminescence</i> , 2019 , 209, 179-187	3.8	5
40	Photoactive CdO:TiO ₂ nanocomposites for dyes degradation under visible light. <i>Materials Chemistry and Physics</i> , 2020 , 253, 123191	4.4	5
39	Red emitting non-rare earth doped LiMgBO ₃ phosphor for light emitting diodes. <i>Journal of Alloys and Compounds</i> , 2020 , 830, 154622	5.7	5
38	Photoluminescence, thermoluminescence and defect centres in Y ₂ O ₃ and Y ₂ O ₃ :Tb ³⁺ under 100 MeV swift Ni ⁸⁺ ion beam irradiation. <i>Materials Research Bulletin</i> , 2018 , 102, 62-69	5.1	5
37	Upconversion luminescence of Er ³⁺ /Yb ³⁺ doped Sr ₅ (PO ₄) ₃ OH phosphor powders. <i>Physica B: Condensed Matter</i> , 2018 , 535, 57-62	2.8	5
36	Characteristic properties of Y ₂ SiO ₅ :Ce thin films grown with PLD. <i>Physica B: Condensed Matter</i> , 2009 , 404, 4431-4435	2.8	5
35	Electron Beam Degradation of Sulfide-Based Thin-Film Phosphors for Field Emission Flat Panel Displays. <i>Materials Research Society Symposia Proceedings</i> , 1998 , 508, 261		5
34	Effect of hydrazine hydrate as complexing agent in the synthesis of zinc selenide thin films by chemical bath deposition. <i>Thin Solid Films</i> , 2020 , 693, 137707	2.2	5
33	Effect of Yb ³⁺ ions on structural and NIR emission of SrF ₂ :Eu ²⁺ /Pr ³⁺ down-conversion containing Na ⁺ ions. <i>Materials Research Bulletin</i> , 2017 , 93, 170-176	5.1	4
32	Comparative study of photo- and non-photo-assisted chemical bath deposition of Zinc Selenide thin films using different volumes of hydrazine hydrate. <i>Superlattices and Microstructures</i> , 2019 , 134, 106222	2.8	4
31	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. <i>Thin Solid Films</i> , 2019 , 687, 137483	2.2	4
30	The influence of laser wavelength on the structure, morphology, and photoluminescence properties of pulsed laser deposited CaS:Eu ²⁺ thin films. <i>Journal of Modern Optics</i> , 2015 , 62, 1102-1109	1.1	4
29	Thermo-luminescence kinetic parameters of irradiated Sr ₄ Al ₁₄ O ₂₅ :Eu ²⁺ , Dy ³⁺ phosphors. <i>Radiation Effects and Defects in Solids</i> , 2013 , 168, 1022-1029	0.9	4
28	Study of photoluminescence and nonlinear optical behaviour of AgCu nanoparticles for nanophotonics. <i>Nano Structures Nano Objects</i> , 2021 , 28, 100807	5.6	4
27	Photoluminescence and thermoluminescence properties of Y ₃ (Al,Ga) ₅ O ₁₂ :Tb ³⁺ phosphor. <i>Journal of Modern Optics</i> , 2016 , 63, 103-110	1.1	4
26	Color tuning of the Ba _{1.96} Mg(PO ₄) ₂ :0.04Eu ²⁺ phosphor induced by the chemical unit co-substitution of the (BO ₃) ₃ anion group. <i>Journal of Alloys and Compounds</i> , 2021 , 864, 158124	5.7	4

25	Controlling the morphology of ZnO NRs grown on GZO seed layer, by use of ethylenediamine and L-cysteine as crystal growth modifiers and complexing agents. <i>Applied Surface Science</i> , 2019 , 487, 1198-1208	6.7	3
24	Luminescence of Alternating SiO ₂ :Tb and SiO ₂ :Ce Thin Films Produced by Sol-gel Spin Coating. <i>Materials Today: Proceedings</i> , 2015 , 2, 4111-4117	1.4	3
23	Structural and optical characterization of mechanically milled Mg-TiO ₂ and nitrided Mg-TiO ₂ -N nanostructures: Possible candidates for gas sensing application. <i>Applied Surface Science</i> , 2016 , 360, 1047-1058	6.7	3
22	Upconversion process in BaY F :Yb ,Ho phosphor for optical thermometry. <i>Luminescence</i> , 2021 , 36, 1847-1850	1.5	3
21	Blue-emitting Ca ₃ Mg ₃ (PO ₄) ₄ :Eu ²⁺ phosphor: Study of electron-vibrational interaction in the 5d states of Eu ²⁺ ions. <i>Optical Materials</i> , 2021 , 114, 110959	3.3	3
20	Synthesis and characterization of europium doped zinc selenide thin films prepared by photo-assisted chemical bath technique for luminescence application. <i>Materials Chemistry and Physics</i> , 2021 , 262, 124303	4.4	3
19	Ion-induced modification of structural, optical and luminescence behaviour of Gd ₂ MoO ₆ nanomaterials: A comparative approach. <i>Vacuum</i> , 2016 , 128, 146-157	3.7	3
18	Ag ⁷⁺ ion induced modification of morphology, optical and luminescence behaviour of charge compensated CaMoO ₄ nanophosphor. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2016 , 384, 76-85	1.2	3
17	Phase transformation on zinc selenide thin films deposited by photo-assisted chemical bath method: The effect of annealing temperature. <i>Materials Science in Semiconductor Processing</i> , 2020 , 115, 105118	4.3	3
16	Interface analysis of SrWO ₄ :Er ³⁺ -Yb ³⁺ /Si thin films prepared by radio frequency magnetron sputtering for upconversion emission. <i>Physica B: Condensed Matter</i> , 2021 , 623, 413349	2.8	3
15	Plasmonic Au nanoparticles embedded in glass: Study of TOF-SIMS, XPS and its enhanced antimicrobial activities. <i>Journal of Alloys and Compounds</i> , 2022 , 909, 164789	5.7	3
14	Structure and photoluminescence properties of Ba _{2-x} Si ₄ O ₁₀ :2xSm ³⁺ . <i>Physica B: Condensed Matter</i> , 2018 , 535, 50-56	2.8	2
13	The effect of the host lattice on the optical properties of Bi ³⁺ in Ca _{1-x} O:Bi and Ca _{1-x} (OH) ₂ :Bi phosphors. <i>Applied Surface Science</i> , 2018 , 433, 155-159	6.7	2
12	La ³⁺ eliminate the blue component from the emission of Y ₂ O ₃ :Bi ³⁺ . <i>Materials Letters</i> , 2016 , 171, 171-173	3.3	2
11	Investigation of ageing characteristics and identification of surface chemical changes on SrGa ₂ S ₄ :Ce ³⁺ display phosphor under electron beam bombardment. <i>Physica B: Condensed Matter</i> , 2012 , 407, 1645-1648	2.8	2
10	Structural, surface and luminescent properties of SrF ₂ :Eu annealed thin films. <i>Vacuum</i> , 2021 , 191, 110363	3.7	2
9	Evaluation of the effects of Au addition into ZnFe ₂ O ₄ nanostructures on acetone detection capabilities. <i>Materials Research Bulletin</i> , 2021 , 142, 111395	5.1	2
8	Role of Ga particulates on the structure and optical properties of Y ₃ (Al,Ga) ₅ O ₁₂ :Tb thin films prepared by PLD. <i>Physica B: Condensed Matter</i> , 2018 , 535, 319-322	2.8	1

7	Compound Luminescent Semiconductors: Their Properties and Uses 2013 , 73-86		1
6	Photoluminescence, cathodoluminescence degradation and surface analysis of Gd ₂ O ₃ :Bi pulsed laser deposition thin films. <i>Physica B: Condensed Matter</i> , 2022 , 631, 413618	2.8	1
5	Charge compensated CaSr ₂ (PO ₄) ₂ :Sm ³⁺ , Li ⁺ /Na ⁺ /K ⁺ phosphor: Luminescence and thermometric studies. <i>Journal of Alloys and Compounds</i> , 2022 , 901, 163793	5.7	1
4	Synthesis of silver incorporated lithium doped zinc oxide nanocomposites for in-vitro biorational evaluation of Candidiasis and Cryptococcosis. <i>Applied Surface Science</i> , 2020 , 506, 144800	6.7	1
3	Luminescent behaviour of SrF ₂ and CaF ₂ crystals doped with Eu ions under different annealing temperatures. <i>Journal of Alloys and Compounds</i> , 2021 , 858, 157741	5.7	1
2	The role of sulfate ions on distinctive defect emissions in ZnO:Ce ³⁺ nanophosphors - A study on the application in color display systems. <i>Journal of Luminescence</i> , 2021 , 240, 118462	3.8	1
1	Electron beam irradiation studies of ZnGa ₂ O ₄ :Mn ²⁺ green phosphor. <i>Vacuum</i> , 2021 , 192, 110447	3.7	0