

R Ps Chakradhar

List of Publications by Year in descending order

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169
papers

5,890
citations

61984

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docs citations

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times ranked

5139
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#	ARTICLE	IF	CITATIONS
1	Structural, optical and EPR studies on ZnO:Cu nanopowders prepared via low temperature solution combustion synthesis. <i>Journal of Alloys and Compounds</i> , 2011, 509, 5349-5355.	5.5	272
2	Effect of wettability and surface roughness on ice-adhesion strength of hydrophilic, hydrophobic and superhydrophobic surfaces. <i>Applied Surface Science</i> , 2014, 314, 241-250.	6.1	234
3	Combustion synthesis, characterization and Raman studies of ZnO nanopowders. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2011, 81, 53-58.	3.9	143
4	Effect of Calcination Temperature on Structural, Photoluminescence, and Thermoluminescence Properties of $Y_2O_3:Eu^{3+}$ Nanophosphor. <i>Journal of Physical Chemistry C</i> , 2013, 117, 1915-1924.	3.1	142
5	Effect of Li ⁺ -ion on enhancement of photoluminescence in Gd ₂ O ₃ :Eu ³⁺ nanophosphors prepared by combustion technique. <i>Journal of Alloys and Compounds</i> , 2011, 509, 2368-2374.	5.5	135
6	Solution combustion derived nanocrystalline macroporous wollastonite ceramics. <i>Materials Chemistry and Physics</i> , 2006, 95, 169-175.	4.0	129
7	EPR, FTIR, optical absorption and photoluminescence studies of Fe ₂ O ₃ and CeO ₂ doped ZnO-Bi ₂ O ₃ -B ₂ O ₃ glasses. <i>Journal of Alloys and Compounds</i> , 2010, 493, 256-262.	5.5	114
8	Solution combustion derived nanocrystalline Zn ₂ SiO ₄ :Mn phosphors: A spectroscopic view. <i>Journal of Chemical Physics</i> , 2004, 121, 10250-10259.	3.0	100
9	Spectroscopic investigations of Mn ²⁺ ions doped polyvinylalcohol films. <i>Polymer</i> , 2004, 45, 5407-5415.	3.8	96
10	Characterization, EPR and luminescence studies of ZnAl ₂ O ₄ :Mn phosphors. <i>Journal of Luminescence</i> , 2008, 128, 394-402.	3.1	91
11	Effect of different fuels on structural, thermo and photoluminescent properties of Gd ₂ O ₃ nanoparticles. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2012, 96, 532-540.	3.9	86
12	Fabrication of superhydrophobic surfaces based on ZnO-PDMS nanocomposite coatings and study of its wetting behaviour. <i>Applied Surface Science</i> , 2011, 257, 8569-8575.	6.1	83
13	Enhanced photoluminescence of Gd ₂ O ₃ :Eu ³⁺ nanophosphors with alkali (M=Li ⁺ , Na ⁺ , K ⁺) metal ion co-doping. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2012, 86, 8-14.	3.9	83
14	Mixed alkali effect in Li ₂ O-Na ₂ O-B ₂ O ₃ glasses containing CuO - An EPR and optical study. <i>Journal of Non-Crystalline Solids</i> , 2006, 352, 3864-3871.	3.1	80
15	Microstructure, mechanical, thermal, EPR, and optical properties of MgAl ₂ O ₄ :Cr ³⁺ spinel glass-ceramic nanocomposites. <i>Journal of Alloys and Compounds</i> , 2014, 583, 498-509.	5.5	80
16	Synthesis, characterization, photoluminescence and EPR investigations of Mn doped MgAl ₂ O ₄ phosphors. <i>Journal of Solid State Chemistry</i> , 2007, 180, 2067-2074.	2.9	73
17	Synthesis, characterization and photoluminescence properties of CaSiO ₃ :Eu ³⁺ red phosphor. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2011, 78, 64-69.	3.9	72
18	EPR, optical, photoluminescence studies of Cr ³⁺ ions in Li ₂ O-Cs ₂ O-B ₂ O ₃ glasses - An evidence of mixed alkali effect. <i>Journal of Molecular Structure</i> , 2010, 975, 93-99.	3.6	69

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19	Spectroscopic and optical properties of Nd ³⁺ doped fluorine containing alkali and alkaline earth zinc-aluminophosphate optical glasses. <i>Physica B: Condensed Matter</i> , 2009, 404, 3717-3721.	2.7	68
20	Synthesis and luminescence properties of Sm ³⁺ doped CaTiO ₃ nanophosphor for application in white LED under NUV excitation. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2014, 128, 891-901.	3.9	59
21	Synthesis and characterization of spherical and rod like nanocrystalline Nd ₂ O ₃ phosphors. <i>Journal of Alloys and Compounds</i> , 2011, 509, 1146-1151.	5.5	58
22	EPR, thermo and photoluminescence properties of ZnO nanopowders. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2011, 81, 59-63.	3.9	58
23	Elastic properties and structural studies on lead borovanadate glasses. <i>Journal of Non-Crystalline Solids</i> , 2008, 354, 32-40.	3.1	56
24	Auto-ignition based synthesis of Y ₂ O ₃ for photo- and thermo-luminescent applications. <i>Journal of Alloys and Compounds</i> , 2014, 585, 129-137.	5.5	56
25	Structural, EPR, photo and thermoluminescence properties of ZnO:Fe nanoparticles. <i>Materials Chemistry and Physics</i> , 2012, 133, 876-883.	4.0	55
26	Stable superhydrophobic coatings using PVDF/MWCNT nanocomposite. <i>Applied Surface Science</i> , 2014, 301, 208-215.	6.1	55
27	CdSiO ₃ :Pr ³⁺ nanophosphor: Synthesis, characterization and thermoluminescence studies. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2012, 99, 279-287.	3.9	54
28	EPR, optical absorption and photoluminescence properties of Cr ³⁺ ions in lithium borophosphate glasses. <i>Journal of Alloys and Compounds</i> , 2010, 496, 75-80.	5.5	52
29	Studies on red-emitting Cr ³⁺ doped barium aluminate phosphor obtained by combustion process. <i>Materials Chemistry and Physics</i> , 2008, 111, 143-148.	4.0	51
30	Combustion synthesized MgAl ₂ O ₄ :Cr phosphors: An EPR and optical study. <i>Journal of Luminescence</i> , 2009, 129, 130-134.	3.1	51
31	Combustion synthesis, structural characterization, thermo and photoluminescence studies of CdSiO ₃ :Dy ³⁺ nanophosphor. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2012, 93, 140-148.	3.9	50
32	Influence of annealing temperature on Raman and photoluminescence spectra of electron beam evaporated TiO ₂ thin films. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2012, 99, 33-36.	3.9	48
33	Spherical and rod-like Cd ₂ O ₃ :Eu ³⁺ nanophosphors: Structural and luminescence properties. <i>Bulletin of Materials Science</i> , 2012, 35, 519-527.	1.7	48
34	YAlO ₃ :Cr ³⁺ nanophosphor: Synthesis, photoluminescence, EPR, dosimetric studies. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2012, 96, 154-162.	3.9	48
35	Investigation of structural and luminescence properties of Ho ³⁺ doped YAlO ₃ nanophosphors synthesized through solution combustion route. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2013, 115, 234-243.	3.9	47
36	Elastic properties and spectroscopic studies of fast ion conducting Li ₂ OZnO ₂ B ₂ O ₃ glass system. <i>Materials Research Bulletin</i> , 2007, 42, 1337-1347.	5.2	46

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37	EPR and optical absorption studies of Fe ³⁺ ions in sodium borophosphate glasses. Journal of Physics and Chemistry of Solids, 2010, 71, 1651-1655.	4.0	46
38	Thermoluminescence response in gamma and UV irradiated Dy ₂ O ₃ nanophosphor. Journal of Luminescence, 2012, 132, 1798-1806.	3.1	46
39	Electron paramagnetic resonance, magnetic and electrical properties of CoFe ₂ O ₄ nanoparticles. Journal of Magnetism and Magnetic Materials, 2013, 339, 40-45.	2.3	45
40	Structural, photo and thermoluminescence studies of Eu ³⁺ doped orthorhombic YAlO ₃ nanophosphors. Journal of Alloys and Compounds, 2014, 601, 75-84.	5.5	45
41	Enhanced luminescence by monovalent alkali metal ions in Sr ₂ SiO ₄ :Eu ³⁺ nanophosphor prepared by low temperature solution combustion method. Journal of Alloys and Compounds, 2014, 595, 192-199.	5.5	45
42	Synthesis, characterization, EPR, photo and thermoluminescence properties of YAlO ₃ :Ni ²⁺ nanophosphors. Journal of Luminescence, 2013, 135, 105-112.	3.1	44
43	Hydrothermal synthesis, characterization and Raman studies of Eu ³⁺ activated Gd ₂ O ₃ nanorods. Physica B: Condensed Matter, 2011, 406, 1639-1644.	2.7	43
44	Structural, EPR, optical and magnetic properties of Fe ³⁺ -Fe ₂ O ₃ nanoparticles. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2013, 104, 512-518.	3.9	43
45	Combustion synthesis, characterization and metal-insulator transition studies of nanocrystalline La _{1-x} CaxMnO ₃ (0.0 ≤ x ≤ 0.5). Materials Chemistry and Physics, 2007, 102, 47-52.	4.0	42
46	Photoluminescence and EPR studies of Cr-doped hibonite (CaAl ₁₂ O ₁₉) phosphors. Solid State Sciences, 2008, 10, 1525-1532.	3.2	41
47	Characterization, EPR and photoluminescence studies of LiAl ₅ O ₈ :Cr phosphors. Solid State Sciences, 2009, 11, 870-874.	3.2	40
48	EPR and photoluminescence studies of ZnO:Mn nanophosphors prepared by solution combustion route. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2011, 79, 476-480.	3.9	40
49	Mixed alkali effect in borate glasses - electron paramagnetic resonance and optical absorption studies in Cu ²⁺ doped Na ₂ O (30 Å) K ₂ O 70B ₂ O ₃ glasses. Journal of Physics Condensed Matter, 2003, 15, 1469-1486.	1.8	39
50	Mn ²⁺ activated MgSrAl ₁₀ O ₁₇ green-emitting phosphor luminescence and EPR study. Journal of Luminescence, 2008, 128, 1474-1478.	3.1	38
51	Luminescent characteristics of Eu ³⁺ doped di-calcium silicate nano-powders for white LEDs. Journal of Alloys and Compounds, 2013, 575, 434-443.	5.5	37
52	Enhanced microwave absorption properties of PMMA modified MnFe ₂ O ₄ polyaniline nanocomposites. Physical Chemistry Chemical Physics, 2019, 21, 5068-5077.	2.8	37
53	Luminescence and EPR studies of Eu ²⁺ doped BaAl ₁₂ O ₁₉ blue light emitting phosphors. Journal of Luminescence, 2010, 130, 703-708.	3.1	36
54	Magnetic and dielectric interactions in nano zinc ferrite powder: Prepared by self-sustainable propellant chemistry technique. Journal of Magnetism and Magnetic Materials, 2014, 358-359, 132-141.	2.3	36

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55	EPR, optical absorption and photoluminescence properties of MnO ₂ doped 23B ₂ O ₃ –5ZnO–72Bi ₂ O ₃ glasses. <i>Physica B: Condensed Matter</i> , 2010, 405, 2157-2161.	2.7	35
56	Optical, electrical and dielectric properties of TiO ₂ –SiO ₂ films prepared by a cost effective sol–gel process. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2011, 83, 614-617.	3.9	35
57	Electron paramagnetic resonance and photoluminescence properties of $\hat{\pm}$ -Al ₂ O ₃ :Cr ³⁺ phosphors. <i>Applied Physics B: Lasers and Optics</i> , 2012, 107, 489-495.	2.2	35
58	Spectral studies of Sm ³⁺ and Dy ³⁺ doped lithium cesium mixed alkali borate glasses. <i>Journal of Non-Crystalline Solids</i> , 2006, 352, 3914-3922.	3.1	34
59	Microstructure, mechanical, EPR and optical properties of lithium disilicate glasses and glass–ceramics doped with Mn ²⁺ ions. <i>Journal of Alloys and Compounds</i> , 2012, 512, 105-114.	5.5	34
60	Photoluminescence study of nanocrystalline Y ₂ O ₃ :Ho ³⁺ phosphor. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2013, 109, 206-212.	3.9	34
61	Structural and phase dependent thermo and photoluminescent properties of Dy(OH) ₃ and Dy ₂ O ₃ nanorods. <i>Materials Research Bulletin</i> , 2012, 47, 2085-2094.	5.2	33
62	Synthesis, characterization, EPR and thermoluminescence properties of CaTiO ₃ nanophosphor. <i>Materials Research Bulletin</i> , 2013, 48, 1490-1498.	5.2	32
63	Combustion synthesis approach for spectral tuning of Eu doped CaAl ₂ O ₄ phosphors. <i>Journal of Alloys and Compounds</i> , 2014, 589, 596-603.	5.5	32
64	Synthesis, characterization and optical properties of LaAlO ₃ :Ho ³⁺ phosphor. <i>Physica B: Condensed Matter</i> , 2008, 403, 3781-3785.	2.7	31
65	EPR and luminescence properties of combustion synthesized LiAl ₅ O ₈ :Mn phosphors. <i>Materials Chemistry and Physics</i> , 2008, 110, 43-51.	4.0	31
66	Photoluminescence and EPR studies of BaMgAl ₁₀ O ₁₇ :Eu ²⁺ phosphor with blue-emission synthesized by the solution combustion method. <i>Journal of Luminescence</i> , 2011, 131, 1714-1718.	3.1	31
67	Synthesis and properties of high velocity oxy-fuel sprayed FeCoCrNi ₂ Al high entropy alloy coating. <i>Surface and Coatings Technology</i> , 2019, 378, 124950.	4.8	31
68	Green luminescence and EPR studies on Mn-activated yttrium aluminum garnet phosphor. <i>Applied Physics B: Lasers and Optics</i> , 2010, 98, 407-415.	2.2	30
69	Structural characterization, EPR and thermoluminescence properties of Cd _{1-x} Ni _x SiO ₃ nanocrystalline phosphors. <i>Materials Research Bulletin</i> , 2012, 47, 2306-2314.	5.2	30
70	Structural characterization, thermoluminescence and EPR studies of Nd ₂ O ₃ :Co ²⁺ nanophosphors. <i>Materials Research Bulletin</i> , 2013, 48, 180-187.	5.2	30
71	Synthesis, characterization and photoluminescence properties of Gd ₂ O ₃ :Eu ³⁺ nanophosphors prepared by solution combustion method. <i>Physica B: Condensed Matter</i> , 2010, 405, 3795-3799.	2.7	29
72	Thermo and photoluminescence properties of Eu ³⁺ activated hexagonal, monoclinic and cubic gadolinium oxide nanorods. <i>Physica B: Condensed Matter</i> , 2011, 406, 1645-1652.	2.7	29

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73	Gd _{1.96} Y _x Eu _{0.04} O ₃ (x=0.0, 0.49, 0.98, 1.47, 1.96mol%) nanophosphors: Propellant combustion synthesis, structural and luminescence studies. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2014, 128, 730-739.	3.9	29
74	Optical absorption and luminescence properties of Nd ³⁺ in mixed alkali borate glasses—Spectroscopic investigations. <i>Journal of Luminescence</i> , 2004, 110, 65-77.	3.1	28
75	Infrared and visible emission of Er ³⁺ in combustion-synthesized CaAl ₂ O ₄ phosphors. <i>Journal of Luminescence</i> , 2009, 129, 1375-1380.	3.1	28
76	Thermo, lono and photoluminescence properties of 100MeV Si ⁷⁺ ions bombarded CaSiO ₃ :Eu ³⁺ nanophosphor. <i>Journal of Luminescence</i> , 2012, 132, 2065-2071.	3.1	28
77	Optical absorption and photoluminescence properties of Nd ³⁺ doped mixed alkali phosphate glasses-spectroscopic investigations. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2009, 72, 171-177.	3.9	27
78	Influence of surfactant and annealing temperature on optical properties of sol-gel derived nano-crystalline TiO ₂ thin films. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2010, 75, 1073-1077.	3.9	27
79	Effect of sintering on optical, structural and photoluminescence properties of ZnO thin films prepared by sol-gel process. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2010, 77, 330-333.	3.9	27
80	Thermoluminescence and EPR studies of nanocrystalline Nd ₂ O ₃ :Ni ²⁺ phosphor. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2012, 93, 228-234.	3.9	27
81	Water-repellent coatings prepared by modification of ZnO nanoparticles. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2012, 94, 352-356.	3.9	27
82	Influence of Sn doping on structural, optical and electrical properties of ZnO thin films prepared by cost effective sol-gel process. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2012, 95, 423-426.	3.9	27
83	Study on low temperature solution combustion synthesized Sr ₂ SiO ₄ :Dy ³⁺ nano phosphor for white LED. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2014, 127, 381-387.	3.9	27
84	EPR, luminescence and IR studies of Mn activated ZnGa ₂ O ₄ phosphor. <i>Journal of Physics and Chemistry of Solids</i> , 2004, 65, 1367-1372.	4.0	26
85	Electron paramagnetic resonance, optical absorption and photoluminescence properties of Cu ²⁺ ions in ZnO-Bi ₂ O ₃ -B ₂ O ₃ glasses. <i>Journal of Magnetism and Magnetic Materials</i> , 2013, 346, 21-25.	2.3	26
86	Structural, lono and thermoluminescence properties of heavy ion (100MeV Si ⁷⁺) bombarded Zn ₂ SiO ₄ :Sm ³⁺ nanophosphor. <i>Journal of Luminescence</i> , 2013, 143, 409-417.	3.1	26
87	Synthesis and luminescent properties of Tb ³⁺ activated cadmium silicate nanophosphor. <i>Journal of Alloys and Compounds</i> , 2014, 592, 319-327.	5.5	26
88	Effect of Thermal Aging and Chemical Treatment on Tensile Properties of Coir Fiber. <i>Journal of Natural Fibers</i> , 2018, 15, 112-121.	3.1	26
89	Synthesis, characterization and photoluminescence properties of CaSiO ₃ :Dy ³⁺ nanophosphors. <i>Philosophical Magazine</i> , 2010, 90, 3567-3579.	1.6	25
90	Enhanced blue emission and EPR study of LaMgAl ₁₁ O ₁₉ :Eu phosphors. <i>Journal of Luminescence</i> , 2011, 131, 247-252.	3.1	25

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91	Structural, EPR, optical and Raman studies of Nd ₂ O ₃ :Cu ²⁺ nanophosphors. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2012, 94, 365-371.	3.9	25
92	Effect of NaF flux on microstructure and thermoluminescence properties of Sm ³⁺ doped CdSiO ₃ nanophosphor. <i>Journal of Luminescence</i> , 2013, 134, 432-440.	3.1	25
93	Elastic properties of Na ₂ O-B ₂ O ₃ -V ₂ O ₅ glasses. <i>Journal of Alloys and Compounds</i> , 2009, 479, 17-21.	5.5	24
94	CdSiO ₃ :Eu ³⁺ red nanophosphors prepared by low temperature solution combustion technique, its structural and luminescent properties. <i>Journal of Alloys and Compounds</i> , 2014, 616, 284-292.	5.5	24
95	Ion beam induced amorphization and bond breaking in Zn ₂ SiO ₄ :Eu ³⁺ nanocrystalline phosphor. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2012, 90, 18-21.	3.9	23
96	Thermoluminescence, photoluminescence and EPR studies on Mn ²⁺ activated yttrium aluminate (YAlO ₃) perovskite. <i>Journal of Luminescence</i> , 2012, 132, 2409-2415.	3.1	23
97	Luminescence studies and EPR investigation of solution combustion derived Eu doped ZnO. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2014, 132, 305-312.	3.9	23
98	Electron paramagnetic resonance and optical absorption studies of Fe(III) ions in alkali barium borate glasses. <i>Optical Materials</i> , 1998, 10, 109-116.	3.6	22
99	EPR and optical investigations of Eu ²⁺ -doped BaFCl phosphor. <i>Physica B: Condensed Matter</i> , 2004, 348, 446-453.	2.7	22
100	EPR and luminescence properties of LiGa ₅ O ₈ :Mn green emitting phosphor. <i>Journal of Luminescence</i> , 2009, 129, 755-759.	3.1	22
101	Optical, dielectric and morphological studies of sol-gel derived nanocrystalline TiO ₂ films. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2009, 74, 839-842.	3.9	22
102	EPR and photoluminescence studies on lithium-potassium borophosphate glasses doped with Mn ²⁺ ions. <i>Journal of Alloys and Compounds</i> , 2009, 486, 46-50.	5.5	22
103	Thermoluminescence properties of 100MeV Si ⁷⁺ swift heavy ions and UV irradiated CdSiO ₃ :Ce ³⁺ nanophosphor. <i>Journal of Luminescence</i> , 2013, 134, 358-368.	3.1	22
104	The effect of host glass on optical absorption and fluorescence of Nd ³⁺ in xNa ₂ O-(30-x)K ₂ O-70B ₂ O ₃ glasses. <i>Journal of Physics Condensed Matter</i> , 2003, 15, 6715-6730.	1.8	21
105	Synthesis, structural and transport properties of nanocrystalline La ^{1-x} BaxMnO ₃ (0.0 ≤ x ≤ 0.3) powders. <i>Solid State Communications</i> , 2005, 136, 427-432.	1.9	21
106	The effect of mixed alkali on EPR and optical absorption spectra in mixed alkali borate xNa ₂ O-(30-x)K ₂ O-70B ₂ O ₃ glasses doped with iron ions. <i>Journal of Non-Crystalline Solids</i> , 2005, 351, 1289-1299.	3.1	21
107	Optical, electrical and structural characterization of ZnO:Al thin films prepared by a low cost sol-gel method. <i>Solid State Communications</i> , 2012, 152, 324-327.	1.9	21
108	Optical absorption and emission properties of Pr ³⁺ and Er ³⁺ in lithium cesium mixed alkali borate glasses. <i>Journal of Luminescence</i> , 2006, 118, 227-237.	3.1	20

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109	EPR and luminescence studies of Cr ³⁺ doped MgSrAl ₁₀ O ₁₇ phosphor synthesized by a low-temperature solution combustion route. <i>Journal of Luminescence</i> , 2014, 154, 328-333.	3.1	20
110	Synthesis, luminescence and EPR studies on CaSiO ₃ : Pb, Mn-nano phosphors synthesized by the solution combustion method. <i>Ceramics International</i> , 2013, 39, 1917-1922.	4.8	19
111	Luminescence and defect studies of YAlO ₃ :Dy ³⁺ , Sm ³⁺ single crystals exposed to 100 MeV Si ⁷⁺ ion beam. <i>Journal of Luminescence</i> , 2012, 132, 2679-2683.	3.1	17
112	EPR and optical studies of microwave synthesized glasses containing VO ₂ ⁺ ions: Meta and pyrophosphate regime. <i>Journal of Alloys and Compounds</i> , 2017, 695, 1368-1377.	5.5	17
113	Magneto-resistive studies on nanocrystalline La _{0.8} Sr _{0.2} MnO ₃ + δ manganite. <i>Physica B: Condensed Matter</i> , 2008, 403, 3360-3364.	2.7	16
114	Synthesis, characterization and photoluminescence of Eu ³⁺ , Ce ³⁺ co-doped CaLaAl ₃ O ₇ phosphors. <i>Philosophical Magazine</i> , 2010, 90, 3095-3105.	1.6	16
115	Dielectric relaxation and ion transport in silver-boro-tellurite glasses. <i>Philosophical Magazine</i> , 2010, 90, 2635-2650.	1.6	16
116	Synthesis, EPR and luminescent properties of YAlO ₃ :Fe ³⁺ (0.1-0.9mol%) nanopowders. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2014, 126, 220-226.	3.9	16
117	Effect of fuel on the formation structure, transport and magnetic properties of LaMnO ₃ + δ nanopowders. <i>Philosophical Magazine</i> , 2010, 90, 2009-2025.	1.6	15
118	Effect of annealing temperature on electrical and nano-structural properties of sol-gel derived ZnO thin films. <i>Journal of Materials Science: Materials in Electronics</i> , 2011, 22, 1415-1419.	2.2	15
119	Synthesis, characterization, thermo- and photoluminescence properties of Bi ³⁺ co-doped Gd ₂ O ₃ :Eu ³⁺ nanophosphors. <i>Applied Physics B: Lasers and Optics</i> , 2012, 107, 503-511.	2.2	15
120	Temperature dependent magnetic ordering and electrical transport behavior of nano zinc ferrite from 20 to 800K. <i>Journal of Alloys and Compounds</i> , 2014, 590, 184-192.	5.5	15
121	Improved Corrosion Protection of Magnesium Alloys AZ31B and AZ91 by Cold-Sprayed Aluminum Coatings. <i>Journal of Thermal Spray Technology</i> , 2021, 30, 371-384.	3.1	15
122	Determination of the chemical states of impurities in natural kyanite by the ionoluminescence technique. <i>Philosophical Magazine</i> , 2009, 89, 995-1004.	1.6	14
123	Spectroscopic and electrical properties of SiO ₂ films prepared by simple and cost effective sol-gel process. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2011, 78, 695-699.	3.9	14
124	Transformation of hydrothermally derived nanowire cluster intermediates into CdSiO ₃ nanobelts. <i>Journal of Materials Chemistry</i> , 2012, 22, 22392.	6.7	14
125	Effect of TiO ₂ Nano-particles on Optical, Electrical and Mechanical Properties of Poly (Vinyl alcohol) Films. , 2014, 5, 847-854.		14
126	A Study of Electron Paramagnetic Resonance and Optical Absorption Spectra of VO ₂ ⁺ Ions in Alkali Barium Phosphate Glasses. <i>International Journal of Modern Physics B</i> , 2003, 17, 3033-3047.	2.0	13

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127	Influence of mixed alkali on the spectral properties of vanadyl ions doped $x\text{Na}_2\text{O} \cdot (30-x)\text{K}_2\text{O} \cdot 60\text{B}_2\text{O}_3$ glasses—An EPR and optical study. <i>Materials Research Bulletin</i> , 2005, 40, 1028-1043.	5.2	13
128	EPR Study of Fe^{3+} - and Ni^{2+} -Doped Macroporous CaSiO_3 Ceramics. <i>Applied Magnetic Resonance</i> , 2008, 33, 137-152.	1.2	13
129	Effect of particle size and dopant concentration on photophysical properties of Eu^{3+} -doped rare earth oxysulphide phosphor coatings. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2011, 78, 783-787.	3.9	13
130	EPR and photoluminescence properties of Mn^{2+} -activated zinc gallate phosphor prepared by urea combustion route and post heat treatment. <i>Journal of Luminescence</i> , 2011, 131, 1789-1794.	3.1	13
131	EPR and photoluminescence properties of green light emitting $\text{LaAl}_{11}\text{O}_{18}:\text{Mn}^{2+}$ phosphors. <i>Physica B: Condensed Matter</i> , 2012, 407, 2289-2294.	2.7	13
132	Photoluminescence, thermoluminescence and EPR studies of solvothermally derived Ni^{2+} doped $\text{Y}(\text{OH})_3$ and Y_2O_3 multi-particle-chain microrods. <i>Journal of Luminescence</i> , 2014, 155, 125-134.	3.1	13
133	Absorption and emission properties of Nd^{3+} in lithium cesium mixed alkali borate glasses. <i>Solid State Communications</i> , 2005, 136, 45-50.	1.9	12
134	Ion beam-induced luminescence and photoluminescence of 100 MeV Si^{8+} ion irradiated kyanite single crystals. <i>Solid State Communications</i> , 2008, 147, 377-380.	1.9	12
135	EPR and IR spectral investigations on some leafy vegetables of Indian origin. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2009, 74, 140-147.	3.9	12
136	SOL-GEL SYNTHESIS, CHARACTERIZATION AND OPTICAL PROPERTIES OF TiO_2 THIN FILMS DEPOSITED ON ITO/GLASS SUBSTRATES. <i>Modern Physics Letters B</i> , 2010, 24, 807-816.	1.9	12
137	An Investigation on the Wear and Corrosion Behavior of HVOF-Sprayed $\text{WC-12Co-Al}_2\text{O}_3$ Cermet Coating. <i>Journal of Materials Engineering and Performance</i> , 2018, 27, 1241-1248.	2.5	12
138	EPR and Optical Studies of Mo^{5+} Ions in Lithium Molybdo borate Glasses. <i>Applied Magnetic Resonance</i> , 2008, 35, 1-13.	1.2	11
139	Spectroscopic investigations on Ho^{3+} doped mixed alkali phosphate glasses. <i>Optical Materials</i> , 2008, 30, 1635-1643.	3.6	11
140	Swift heavy ion induced structural, ionic and photoluminescence properties of $\text{CaSiO}_3:\text{Dy}^{3+}$ nanophosphor. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2012, 93, 300-305.	3.9	11
141	Luminescence and EPR studies of Mn-activated $\text{SrAl}_{12}\text{O}_{19}$ phosphor prepared by facile combustion approach. <i>Physica B: Condensed Matter</i> , 2008, 403, 120-125.	2.7	10
142	Photoluminescence studies of 100MeV Ni^{8+} ion irradiated Al_2O_3 single crystals. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2009, 73, 637-641.	3.9	10
143	Hydrothermal synthesis and characterization of CaSO_4 pseudomicrorods. <i>Philosophical Magazine Letters</i> , 2010, 90, 289-298.	1.2	10
144	Thermoluminescence and defect study of MgSiO_3 ceramics. <i>Philosophical Magazine</i> , 2010, 90, 1567-1574.	1.6	10

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145	Electron Paramagnetic Resonance and Photoluminescence Studies of LaMgAl ₁₁ O ₁₉ :Mn ²⁺ Green Phosphors. <i>Journal of Electronic Materials</i> , 2014, 43, 4041-4047.	2.2	10
146	Synthesis, luminescence properties and EPR investigation of hydrothermally derived uniform ZnO hexagonal rods. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015, 139, 262-270.	3.9	10
147	Transparent hydrophobic and superhydrophobic coatings fabricated using polyamide 12- SiO_2 nanocomposite. <i>Surface and Interface Analysis</i> , 2017, 49, 427-433.	1.8	10
148	Infrared and MAS NMR studies of potassium borovanadate glasses. <i>Journal of Molecular Structure</i> , 2008, 889, 197-203.	3.6	9
149	Electron paramagnetic resonance studies on clinocllore from Longitudinal Valley area, northeastern Taiwan. <i>Physics and Chemistry of Minerals</i> , 2009, 36, 447-453.	0.8	9
150	Influence of halide flux on the crystallinity, microstructure and thermoluminescence properties of CdSiO ₃ :Co ²⁺ nanophosphor. <i>Materials Research Bulletin</i> , 2013, 48, 158-166.	5.2	9
151	Synthesis, structural and thermoluminescence properties of YAlO ₃ :Dy ³⁺ nanophosphors. <i>Journal of Alloys and Compounds</i> , 2014, 591, 337-345.	5.5	9
152	Tribo-Mechanical Properties of HVOF-Sprayed NiMoAl-Cr ₂ AlC Composite Coatings. <i>Journal of Thermal Spray Technology</i> , 2020, 29, 1763-1783.	3.1	9
153	Effect of film thickness and annealing on optical properties of TiO ₂ thin films and electrical characterization of MOS capacitors. <i>Journal of Materials Science: Materials in Electronics</i> , 2014, 25, 4495-4500.	2.2	8
154	Nd ₂ O ₃ :Gd ³⁺ nanocrystalline phosphor: γ -Induced thermoluminescence, EPR and structural properties. <i>Journal of Alloys and Compounds</i> , 2014, 591, 286-292.	5.5	8
155	Influence of Nd ³⁺ concentration on its optical absorption and luminescence properties in potassium borate glass. <i>Physica Status Solidi (B): Basic Research</i> , 2003, 236, 200-208.	1.5	6
156	EPR as an analytical tool in assessing the mineral nutrients and irradiated food products "vegetables. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2008, 71, 809-813.	3.9	6
157	Swift heavy ion irradiation induced phase transformation in calcite single crystals. <i>Solid State Communications</i> , 2009, 149, 1905-1908.	1.9	6
158	Raman and infrared study of 100MeV swift Ag ⁸⁺ heavy ion irradiation effects in CaSO ₄ ·2H ₂ O single crystals. <i>Journal of Alloys and Compounds</i> , 2009, 482, 308-312.	5.5	6
159	Infrared emissions in MgSrAl ₁₀ O ₁₇ :Er ³⁺ phosphor co-doped with Yb ³⁺ /Ba ²⁺ /Ca ²⁺ obtained by solution combustion route. <i>Journal of Luminescence</i> , 2013, 134, 396-400.	3.1	6
160	Effect of minute element addition on the oxidation resistance of FeCoCrNiAl and FeCoCrNi ₂ Al high entropy alloy. <i>Advanced Powder Technology</i> , 2022, 33, 103410.	4.1	6
161	Nd ₂ O ₃ :Eu ³⁺ nanocrystalline phosphor "a new potential thermoluminescing material for dosimetry. <i>Philosophical Magazine Letters</i> , 2009, 89, 589-597.	1.2	5
162	Incorporation of Cr ³⁺ ions in tuning the magnetic and transport properties of nano zinc ferrite. <i>Journal of Alloys and Compounds</i> , 2016, 657, 95-108.	5.5	5

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163	Temperature dependence on the electron paramagnetic resonance spectra of natural jasper from Taroko Gorge (Taiwan). <i>Physics and Chemistry of Minerals</i> , 2010, 37, 201-208.	0.8	4
164	Optical absorption and fluorescence properties of Er ³⁺ in sodium borate glass. <i>Bulletin of Materials Science</i> , 2005, 28, 461-465.	1.7	2
165	Synthesis, Characterization and TL Studies of Porous CaSiO ₃ Ceramic Powders. <i>Transactions of the Indian Ceramic Society</i> , 2005, 64, 157-162.	1.0	2
166	Electrical Properties of Nano Zinc Ferrites Prepared by Solution Combustion and Hydrothermal Methods. <i>Materials Science Forum</i> , 2012, 710, 721-726.	0.3	2
167	Ionoluminescence studies of natural kyanite mineral from different parts of Indian origin. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2012, 86, 15-19.	3.9	2
168	Studies on the Fabrication and Characterization of Optical Sensor Coatings for Aerodynamic Applications. <i>Journal of Applied Sciences</i> , 2012, 12, 1646-1650.	0.3	2
169	UV and thermally stable polystyrene-MWCNT superhydrophobic coatings. <i>Surface and Interface Analysis</i> , 2017, 49, 93-98.	1.8	1