Ankush K Bedyal

List of Publications by Year
in descending order

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40	893	394421	477307
papers	citations	19 h-index	29 g-index

40	40	40	645
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Synthesis, spectral and surface investigation of NaSrBO3: Sm3+ phosphor for full color down conversion in LEDs. Journal of Alloys and Compounds, 2013, 554, 214-220.	5.5	84
2	A promising orange-red emitting nanocrystalline NaCaBO₃:Sm³⁺ phosphor for solid state lightning. Materials Research Express, 2014, 1, 015006.	1.6	60
3	Potential of Sm 3+ doped LiSrVO 4 nanophosphor to fill amber gap in LEDs. Physica B: Condensed Matter, 2018, 535, 221-226.	2.7	57
4	A near-UV-converted LiMgBO3:Dy3+ nanophosphor: Surface and spectral investigations. Applied Surface Science, 2015, 329, 40-46.	6.1	53
5	Charge compensated derived enhanced red emission from Sr 3 (VO 4) 2 :Eu 3+ nanophosphors for white light emitting diodes and flat panel displays. Journal of Alloys and Compounds, 2017, 709, 362-372.	5.5	41
6	Effects of cationic substitution on the luminescence behavior of Dy3+ doped orthophosphate phosphor. Journal of Alloys and Compounds, 2019, 806, 1127-1137.	5.5	40
7	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
8	Energy transfer mechanism from Gd³⁺ to Sm³⁺ in K₃Gd(PO₄)₂:Sm³⁺ phosphor. Materials Research Express, 2015, 2, 076202.	1.6	38
9	Blue photons excited highly chromatic red light emitting K3La(PO4)2:Pr3+ phosphors for white light emitting diodes. Materials Research Bulletin, 2018, 103, 173-180.	5.2	35
10	A novel orange-red emitting Ba 2 Ca(BO 3) 2 :Sm 3+ phosphor to fill the amber gap in LEDs: Synthesis, structural and luminescence characterizations. Current Applied Physics, 2017, 17, 1369-1375.	2.4	32
11	Photoluminescence and thermoluminescence properties of Tb 3+ doped K 3 Gd(PO 4) 2 nanophosphor. Materials Research Bulletin, 2014, 60, 401-411.	5.2	29
12	Spectral and surface investigations of Ca2V2O7:Eu3+ nanophosphors prepared by citrate-gel combustion method: a potential red-emitting phosphor for near-UV light-emitting diodes. Applied Physics A: Materials Science and Processing, 2014, 116, 1785-1792.	2.3	28
13	Synthesis, spectral and surface investigation of novel CaMgB 2 O 5 :Dy 3+ nanophosphor for UV based white LEDs. Materials Research Bulletin, 2017, 91, 140-147.	5.2	27
14	Spectral and surface investigations on Eu3+ doped K3Y(PO4)2 nanophosphor: A promising orangeâ€“red phosphor for white light-emitting diodes. Optical Materials, 2014, 36, 996-1001.	3.6	25
15	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
16	Spectral and surface investigations of Mn2+ doped SrZnO2 nanocrystalline phosphors. Journal of Materials Science, 2013, 48, 3327-3333.	3.7	23
17	Swift heavy ion induced structural, optical and luminescence modification in NaSrBO3:Dy3+ phosphor. Journal of Materials Science, 2014, 49, 6404-6412.	3.7	22
18	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

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19	Structural evolution induced by substitution of designated molybdate sites (MoO4â¯2) with different anionic groups (BO3â¯3, PO4â¯3 and SO4â¯2) in CaMoO4:Sm3+ phosphors-A study on color tunable luminescent properties. Journal of Alloys and Compounds, 2017, 727, 224-237.	5.5	21
20	Surface and spectral studies of Sm3+ doped Li4Ca(BO3)2 phosphors for white light emitting diodes. Journal of Alloys and Compounds, 2018, 738, 97-104.	5.5	21
21	Investigation of thermoluminescence response and trapping parameters of 120ÂMeV Ag9+ and Î³-ray exposed NaSrBO3:Dy3+ phosphor for dosimetry. Journal of Alloys and Compounds, 2017, 691, 919-928.	5.5	20
22	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
23	Spectral, surface and thermometric investigations of upconverting Er3+/Yb3+ co-doped Na3Y(PO4)2 phosphor. Journal of Alloys and Compounds, 2021, 877, 160327.	5.5	16
24	Excitation wavelength and Eu3+/Tb3+ content ratio dependent tunable photoluminescence from NaSrBO3:Eu3+/Tb3+ phosphor. Journal of Materials Science: Materials in Electronics, 2019, 30, 11714-11726.	2.2	14
25	Investigation of thermoluminescence characteristics of NaSrBO 3 :Sm 3+ phosphor against 120 MeV Ag 9+ ion and Î³-ray irradiation prepared by different methods. Journal of Luminescence, 2017, 187, 499-506.	3.1	12
26	Red emitting non-rare earth doped LiMgBO3 phosphor for light emitting diodes. Journal of Alloys and Compounds, 2020, 830, 154622.	5.5	12
27	Thermoluminescence response of 120 MeV Ag9+ and Î³-ray exposed LiMgBO3:Dy3+ nanophosphors for dosimetry. Ceramics International, 2016, 42, 18529-18535.	4.8	11
28	Thermoluminescence and glow curves analysis of Î³-exposed Eu 3+ doped K 3 Y(PO 4) 2 nanophosphors. Materials Research Bulletin, 2016, 73, 111-118.	5.2	11
29	Effect of swift heavy ion irradiation on structural, optical and luminescence properties of SrAl2O4:Eu2+, Dy3+ nanophosphor. Radiation Physics and Chemistry, 2016, 122, 48-54.	2.8	10
30	The influence of Ag9+ ion irradiation on the structural, optical and luminescence properties of Sm3+ doped NaSrBO3: Stability of color emission. Nuclear Instruments & Methods in Physics Research B, 2015, 351, 27-34.	1.4	9
31	A potential green emitting citrate gel synthesized NaSrBO 3 :Tb 3+ phosphor for display application. Physica B: Condensed Matter, 2018, 535, 189-193.	2.7	9
32	Synthesis and thermoluminescence studies of UV-C exposed Li4Ca(BO3)2: Dy3+ phosphors. Vacuum, 2018, 156, 370-374.	3.5	9
33	THERMOLUMINESCENCE RESPONSE OF GAMMA IRRADIATED SrAl₂O₄:Eu²⁺/Dy³⁺ NANOPHOSPHOR. International Journal of Modern Physics Conference Series, 2013, 22, 365-373.	0.7	8
34	Thermo-luminescence kinetic parameters of Î³-irradiated Sr₄Al₁₄O₂₅:Eu²⁺, Dy³⁺phosphors. Radiation Effects and Defects in Solids, 2013, 168, 1022-1029.	1.2	4
35	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
36	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

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37	Orange-Red Emitting Pr3+ Doped NaSrBO3 Nanophosphors: Luminescence and Optical Studies. Materials Focus, 2015, 4, 362-365.	0.4	2
38	A Promising Orange-Red Nanocrystalline Potassium Lanthanum Orthophosphate for White Light-Emitting Diodes. Indian Journal of Materials Science, 2014, 2014, 1-4.	0.6	1
39	Thermoluminescence response and kinetic parameters of UV irradiated K3La(PO4)2:Pr3+ phosphor. AIP Conference Proceedings, 2018, , .	0.4	0
40	Investigation of thermoluminescence response and trapping parameters of gamma-ray irradiated Zn3(VO4)2 phosphors. AIP Conference Proceedings, 2022, , .	0.4	0