

Atul D Sontakke

List of Publications by Year in descending order

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52
papers

1,359
citations

279798

23
h-index

345221

36
g-index

52
all docs

52
docs citations

52
times ranked

1438
citing authors

#	ARTICLE	IF	CITATIONS
1	Concentration-dependent luminescence of Tb ³⁺ ions in high calcium aluminosilicate glasses. <i>Journal of Luminescence</i> , 2009, 129, 1347-1355.	3.1	123
2	Near-infrared multi-wavelengths long persistent luminescence of Nd ³⁺ ion through persistent energy transfer in Ce ³⁺ , Cr ³⁺ co-doped Y ₃ Al ₂ Ga ₃ O ₁₂ for the first and second bio-imaging windows. <i>Applied Physics Letters</i> , 2015, 107, .	3.3	87
3	Luminescence Properties of Dual Valence Eu Doped Nano-crystalline BaF ₂ Embedded Glass-ceramics and Observation of Eu ²⁺ → Eu ³⁺ Energy Transfer. <i>Journal of Fluorescence</i> , 2012, 22, 745-752.	2.5	73
4	Concentration quenched luminescence and energy transfer analysis of Nd ³⁺ ion doped Ba-Al-metaphosphate laser glasses. <i>Applied Physics B: Lasers and Optics</i> , 2010, 101, 235-244.	2.2	59
5	Enhanced Blue Emission from Transparent Oxyfluoride Glass-Ceramics Containing Pr ³⁺ :BaF ₂ Nanocrystals. <i>Journal of the American Ceramic Society</i> , 2010, 93, 1010-1017.	3.8	59
6	Effect of synthesis conditions on Ce ³⁺ luminescence in borate glasses. <i>Journal of Non-Crystalline Solids</i> , 2016, 431, 150-153.	3.1	55
7	Influence of bismuth on structural, elastic and spectroscopic properties of Nd ³⁺ doped Zinc-Boro-Bismuthate glasses. <i>Journal of Luminescence</i> , 2014, 149, 163-169.	3.1	52
8	A Comparison on Ce ³⁺ Luminescence in Borate Glass and YAG Ceramic: Understanding the Role of Host's Characteristics. <i>Journal of Physical Chemistry C</i> , 2016, 120, 17683-17691.	3.1	51
9	Sensitized red luminescence from Bi ³⁺ co-doped Eu ³⁺ : ZnO-B ₂ O ₃ glasses. <i>Physica B: Condensed Matter</i> , 2009, 404, 3525-3529.	2.7	48
10	Unraveling the Eu ²⁺ → Mn ²⁺ Energy Transfer Mechanism in w-LED Phosphors. <i>Journal of Physical Chemistry C</i> , 2020, 124, 13902-13911.	3.1	45
11	Study on Tb ³⁺ containing high silica and low silica calcium aluminate glasses: Impact of optical basicity. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2012, 94, 180-185.	3.9	43
12	Enhanced 2¼m broad-band emission and NIR to visible frequency up-conversion from Ho ³⁺ /Yb ³⁺ co-doped Bi ₂ O ₃ -GeO ₂ -ZnO glasses. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2013, 112, 301-308.	3.9	40
13	Persistent Luminescence of ZnGa ₂ O ₄ :Cr ³⁺ Transparent Glass Ceramics: Effects of Excitation Wavelength and Excitation Power. <i>European Journal of Inorganic Chemistry</i> , 2017, 2017, 5114-5120.	2.0	40
14	Spectroscopic properties and concentration effects on luminescence behavior of Nd ³⁺ doped Zinc-Boro-Bismuthate glasses. <i>Materials Chemistry and Physics</i> , 2013, 137, 916-921.	4.0	38
15	Broadband Er ³⁺ emission in highly nonlinear Bismuth modified Zinc-Borate glasses. <i>Optical Materials Express</i> , 2011, 1, 344.	3.0	37
16	Role of electron transfer in Ce ³⁺ sensitized Yb ³⁺ luminescence in borate glass. <i>Journal of Applied Physics</i> , 2015, 117, .	2.5	37
17	Efficient non-resonant energy transfer in Nd ³⁺ -Yb ³⁺ codoped Ba-Al-metaphosphate glasses. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2010, 27, 2750.	2.1	35
18	Persistent energy transfer in ZGO:Cr ³⁺ , Yb ³⁺ : a new strategy to design nano glass-ceramics featuring deep red and near infrared persistent luminescence. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 19458-19468.	2.8	34

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19	Synthesis and Structural Probing of Eu^{3+} Doped BaYF_5 Nano-Crystals in Transparent Oxyfluoride Glass-Ceramics. International Journal of Applied Glass Science, 2012, 3, 154-162.	2.0	26
20	Near-infrared frequency down-conversion and cross-relaxation in $\text{Eu}^{2+}/\text{Eu}^{3+}:\text{Yb}^{3+}$ doped transparent oxyfluoride glass and glass-ceramics. Journal of Alloys and Compounds, 2014, 608, 266-271.	5.5	24
21	Experimental insights on the electron transfer and energy transfer processes between $\text{Ce}^{3+}-\text{Yb}^{3+}$ and $\text{Ce}^{3+}-\text{Tb}^{3+}$ in borate glass. Applied Physics Letters, 2015, 106, .	3.3	24
22	One Ion, Many Facets: Efficient, Structurally and Thermally Sensitive Luminescence of Eu^{2+} in Binary and Ternary Strontium Borohydride Chlorides. Chemistry of Materials, 2019, 31, 8957-8968.	6.7	24
23	Yb^{3+} ion concentration effects on $1.8\ \mu\text{m}$ emission in tellurite glass. Journal of the Optical Society of America B: Optical Physics, 2012, 29, 1569.	2.1	23
24	Enhanced $1.8\ \mu\text{m}$ emission in $\text{Yb}^{3+}/\text{Tm}^{3+}$ co-doped tellurite glass: Effects of $\text{Yb}^{3+} \rightarrow \text{Tm}^{3+}$ energy transfer and back transfer. Journal of Quantitative Spectroscopy and Radiative Transfer, 2014, 147, 112-120.	2.3	22
25	Energy transfer kinetics in oxy-fluoride glass and glass-ceramics doped with rare-earth ions. Journal of Applied Physics, 2012, 112, .	2.5	19
26	Thermally Stimulated Luminescence and First-Principle Study of Defect Configurations in the Perovskite-Type Hydrides $\text{LiMH}_3:\text{Eu}^{2+}$ (M = Sr, Ba) and the Corresponding Deuterides. Journal of Physical Chemistry C, 2016, 120, 29414-29422.	3.1	19
27	Tunable trap depth for persistent luminescence by cationic substitution in $\text{Pr}^{3+}:\text{K}^{1-x}\text{Na}^x\text{NbO}_3$ perovskites. Journal of the American Ceramic Society, 2018, 102, 2629.	3.8	18
28	Time Resolved Fluorescence and Energy Transfer Analysis of $\text{Nd}^{3+}:\text{Yb}^{3+}:\text{Er}^{3+}$ Triply-Doped $\text{BaAl}_2\text{Metaphosphate}$ Glasses for an Eye Safe Emission ($1.54\ \mu\text{m}$). Journal of Fluorescence, 2010, 20, 425-434.	2.5	17
29	Significance of host's intrinsic absorption band tailing on Ce^{3+} luminescence quantum yield in borate glass. Journal of Luminescence, 2016, 170, 785-788.	3.1	17
30	Phonon assisted effective non-resonant energy transfer based $1.8\ \mu\text{m}$ luminescence from $\text{Nd}^{3+}:\text{Yb}^{3+}$ codoped zinc-borobismuthate glasses. Journal of Luminescence, 2013, 138, 229-234.	3.1	16
31	Afterglow Luminescence in Wet-Chemically Synthesized Inorganic Materials: Ultra-Long Room Temperature Phosphorescence Instead of Persistent Luminescence. Journal of Physical Chemistry Letters, 2017, 8, 4735-4739.	4.6	16
32	Evidence of Organic Luminescent Centers in Sol-Gel Synthesized Yttrium Aluminum Borate Matrix Leading to Bright Visible Emission. Angewandte Chemie - International Edition, 2017, 56, 13995-13998.	13.8	15
33	Energy transfer based efficient infrared emission at $1.57\ \mu\text{m}$ from $\text{Yb}^{3+}:\text{Er}^{3+}$ codoped Zinc-borobismuthate glasses. Optical Materials, 2013, 35, 472-478.	3.6	14
34	Nonisothermal crystallization kinetics and microstructure evolution of calcium lanthanum metaborate glass. Journal of Thermal Analysis and Calorimetry, 2010, 101, 143-151.	3.6	13
35	Hexagonal $\text{Sr}_{1-x/2}\text{Al}_{2x}\text{Si}_x\text{O}_4:\text{Eu}^{2+},\text{Dy}^{3+}$ transparent ceramics with tuneable persistent luminescence properties. Dalton Transactions, 2020, 49, 16849-16859.	13	13
36	Transparent Glass Ceramics. Crystals, 2021, 11, 156.	2.2	10

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37	Al ₂ O ₃ influence on structural, elastic, thermal properties of Yb ³⁺ doped Ba ²⁺ La-tellurite glass: Evidence of reduction in self-radiation trapping at 1 ¹ / ₄ μm emission. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2014, 133, 318-325.	3.9	9
38	Time-gated triplet-state optical spectroscopy to decipher organic luminophores embedded in rigid matrices. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 23294-23300.	2.8	9
39	Selective Vertical and Horizontal Growth of 2D WS ₂ Revealed by In Situ Thermolysis using Transmission Electron Microscopy. <i>Advanced Functional Materials</i> , 2022, 32, 2106450.	14.9	8
40	Effect of TiO ₂ on thermal, structural and third-order nonlinear optical properties of Ca ²⁺ La ³⁺ Ba ²⁺ O glass system. <i>Journal of Alloys and Compounds</i> , 2010, 489, 493-498.	5.5	7
41	Synthesis and optical properties of the Eu ²⁺ -doped alkaline-earth metal hydride chlorides AE ₇ H ₁₂ Cl ₂ (AE ²⁺ = Ca and Sr). <i>Journal of Luminescence</i> , 2019, 209, 150-155.	3.1	7
42	Lanthanide Ions as Local Probes in Ionic Hydrides: A Pulsed Electron Nuclear Double Resonance and Thermoluminescence Study of Eu ²⁺ -Doped Hydride Perovskites. <i>Journal of Physical Chemistry C</i> , 2019, 123, 5031-5041.	3.1	6
43	MCaH _x F _{3-2x} (M = Rb, Cs): Synthesis, Structure, and Bright, Site-Sensitive Tunable Eu ²⁺ Luminescence. <i>Advanced Optical Materials</i> , 2021, 9, 2002052.	7.3	6
44	Network coordination in low germanium alkaline-earth gallate systems: influence on glass formation. <i>RSC Advances</i> , 2012, 2, 13024.	3.6	5
45	Mn ²⁺ activated Ca- \pm -SiALON α -broadband deep-red luminescence and sensitization by Eu ²⁺ , Yb ²⁺ and Ce ³⁺ . <i>Materials Advances</i> , 2021, 2, 2075-2084.	5.4	5
46	Photoluminescence properties of glassy yttrium aluminum borate powders: Dopant-free phosphors for solid-state lighting. <i>Journal of Luminescence</i> , 2017, 188, 448-453.	3.1	4
47	Evidence of Organic Luminescent Centers in Sol-Gel-Synthesized Yttrium Aluminum Borate Matrix Leading to Bright Visible Emission. <i>Angewandte Chemie</i> , 2017, 129, 14183-14186.	2.0	3
48	Persistent luminescence in both first and second biological windows in ZnGa ₂ O ₄ :Cr ³⁺ ,Yb ³⁺ glass ceramics. , 2018, , .		2
49	Broadband white emitting amorphous yttrium-aluminum-borate phosphors for high CRI w-LEDs. , 2017, , .		1
50	Cathodoluminescence and microstructural analysis of amorphous yttrium-aluminum-borate luminescent powders. <i>Journal of Luminescence</i> , 2019, 215, 116669.	3.1	1
51	Afterglow luminescence in sol-gel/Pechini grown oxide materials: persistence or phosphorescence process? (Conference Presentation). , 2017, , .		0
52	Selective Vertical and Horizontal Growth of 2D WS ₂ Revealed by In Situ Thermolysis using Transmission Electron Microscopy (Adv. Funct. Mater. 1/2022). <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	0