

Atul D Sontakke

List of Publications by Year in descending order

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52
papers

1,359
citations

279798

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docs citations

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times ranked

1438
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | 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 |
| 2 | Selective Vertical and Horizontal Growth of 2D WS ₂ Revealed by In Situ Thermolysis using Transmission Electron Microscopy (<i>Adv. Funct. Mater.</i> 1/2022). <i>Advanced Functional Materials</i> , 2022, 32, . | 14.9 | 0 |
| 3 | Mn ²⁺ activated Ca- \pm -SiALON “ 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 |
| 4 | Transparent Glass Ceramics. <i>Crystals</i> , 2021, 11, 156. | 2.2 | 10 |
| 5 | MCaH _x F ₃ (M = Rb, Cs): Synthesis, Structure, and Bright, Site-Sensitive Tunable Eu ²⁺ Luminescence. <i>Advanced Optical Materials</i> , 2021, 9, 2002052. | 7.3 | 6 |
| 6 | Hexagonal Sr _{1-x/2} Al _{2-x} Si _x O ₄ :Eu ²⁺ , Dy ³⁺ transparent ceramics with tuneable persistent luminescence properties. <i>Dalton Transactions</i> , 2020, 49, 16849-16859. | 13 | 13 |
| 7 | 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 |
| 8 | 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 |
| 9 | Cathodoluminescence and microstructural analysis of amorphous yttrium-aluminum-borate luminescent powders. <i>Journal of Luminescence</i> , 2019, 215, 116669. | 3.1 | 1 |
| 10 | One Ion, Many Facets: Efficient, Structurally and Thermally Sensitive Luminescence of Eu ²⁺ in Binary and Ternary Strontium Borohydride Chlorides. <i>Chemistry of Materials</i> , 2019, 31, 8957-8968. | 6.7 | 24 |
| 11 | 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 |
| 12 | Synthesis and optical properties of the Eu ²⁺ -doped alkaline-earth metal hydride chlorides AE ₇ H ₁₂ Cl ₂ (AE = Ca and Sr). <i>Journal of Luminescence</i> , 2019, 209, 150-155. | 3.1 | 7 |
| 13 | Tunable trap depth for persistent luminescence by cationic substitution in Pr ³⁺ :K ^x Na _x NbO ₃ perovskites. <i>Journal of the American Ceramic Society</i> , 2018, 102, 2629. | 3.8 | 18 |
| 14 | 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 |
| 15 | Persistent luminescence in both first and second biological windows in ZnGa ₂ O ₄ :Cr ³⁺ , Yb ³⁺ glass ceramics. , 2018, , . | | 2 |
| 16 | Broadband white emitting amorphous yttrium-aluminum-borate phosphors for high CRI w-LEDs. , 2017, , . | | 1 |
| 17 | Afterglow luminescence in sol-gel/Pechini grown oxide materials: persistence or phosphorescence process? (Conference Presentation). , 2017, , . | | 0 |
| 18 | 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 |

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|----|--|------|-----------|
| 19 | 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 |
| 20 | Evidence of Organic Luminescent Centers in Sol-gel Synthesized Yttrium Aluminum Borate Matrix Leading to Bright Visible Emission. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 13995-13998. | 13.8 | 15 |
| 21 | Afterglow Luminescence in Wet-Chemically Synthesized Inorganic Materials: Ultra-Long Room Temperature Phosphorescence Instead of Persistent Luminescence. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 4735-4739. | 4.6 | 16 |
| 22 | 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 |
| 23 | Thermally Stimulated Luminescence and First-Principle Study of Defect Configurations in the Perovskite-Type Hydrides LiMH ₃ :Eu ²⁺ (M = Sr, Ba) and the Corresponding Deuterides. <i>Journal of Physical Chemistry C</i> , 2016, 120, 29414-29422. | 3.1 | 19 |
| 24 | 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 |
| 25 | Significance of host's intrinsic absorption band tailing on Ce ³⁺ luminescence quantum yield in borate glass. <i>Journal of Luminescence</i> , 2016, 170, 785-788. | 3.1 | 17 |
| 26 | 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 |
| 27 | 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 |
| 28 | Experimental insights on the electron transfer and energy transfer processes between Ce ³⁺ -Yb ³⁺ and Ce ³⁺ -Tb ³⁺ in borate glass. <i>Applied Physics Letters</i> , 2015, 106, . | 3.3 | 24 |
| 29 | 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 |
| 30 | 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 |
| 31 | Near-infrared frequency down-conversion and cross-relaxation in Eu ²⁺ /Eu ³⁺ -Yb ³⁺ doped transparent oxyfluoride glass and glass-ceramics. <i>Journal of Alloys and Compounds</i> , 2014, 608, 266-271. | 5.5 | 24 |
| 32 | Enhanced 1.8 μ m emission in Yb ³⁺ /Tm ³⁺ co-doped tellurite glass: Effects of Yb ³⁺ -Tm ³⁺ energy transfer and back transfer. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2014, 147, 112-120. | 2.3 | 22 |
| 33 | Al ₂ O ₃ influence on structural, elastic, thermal properties of Yb ³⁺ doped Ba-La-tellurite glass: Evidence of reduction in self-radiation trapping at 1 μ m emission. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2014, 133, 318-325. | 3.9 | 9 |
| 34 | Enhanced 2 μ m 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 |
| 35 | Phonon assisted effective non-resonant energy transfer based 1 μ m luminescence from Nd ³⁺ -Yb ³⁺ codoped zinc-boro-bismuthate glasses. <i>Journal of Luminescence</i> , 2013, 138, 229-234. | 3.1 | 16 |
| 36 | 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 |

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|----|---|-----|-----------|
| 37 | Energy transfer based efficient infrared emission at 1.57 μ m from Yb ³⁺ –Er ³⁺ codoped Zinc-borobismuthate glasses. <i>Optical Materials</i> , 2013, 35, 472-478. | 3.6 | 14 |
| 38 | Yb ³⁺ ion concentration effects on 1.5 μ m emission in tellurite glass. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2012, 29, 1569. | 2.1 | 23 |
| 39 | Energy transfer kinetics in oxy-fluoride glass and glass-ceramics doped with rare-earth ions. <i>Journal of Applied Physics</i> , 2012, 112, . | 2.5 | 19 |
| 40 | Network coordination in low germanium alkaline-earth gallate systems: influence on glass formation. <i>RSC Advances</i> , 2012, 2, 13024. | 3.6 | 5 |
| 41 | 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 |
| 42 | 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 |
| 43 | Synthesis and Structural Probing of Eu ³⁺ Doped BaYF ₅ Nano-Crystals in Transparent Oxyfluoride Glass-Ceramics. <i>International Journal of Applied Glass Science</i> , 2012, 3, 154-162. | 2.0 | 26 |
| 44 | Broadband Er ³⁺ emission in highly nonlinear Bismuth modified Zinc-Borate glasses. <i>Optical Materials Express</i> , 2011, 1, 344. | 3.0 | 37 |
| 45 | 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 |
| 46 | Time Resolved Fluorescence and Energy Transfer Analysis of Nd ³⁺ –Yb ³⁺ –Er ³⁺ Triply-Doped Ba–Al-Metaphosphate Glasses for an Eye Safe Emission (1.54 μ m). <i>Journal of Fluorescence</i> , 2010, 20, 425-434. | 2.5 | 17 |
| 47 | Nonisothermal crystallization kinetics and microstructure evolution of calcium lanthanum metaborate glass. <i>Journal of Thermal Analysis and Calorimetry</i> , 2010, 101, 143-151. | 3.6 | 13 |
| 48 | 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 |
| 49 | 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 |
| 50 | Effect of TiO ₂ on thermal, structural and third-order nonlinear optical properties of Ca–La–B–O glass system. <i>Journal of Alloys and Compounds</i> , 2010, 489, 493-498. | 5.5 | 7 |
| 51 | Concentration-dependent luminescence of Tb ³⁺ ions in high calcium aluminosilicate glasses. <i>Journal of Luminescence</i> , 2009, 129, 1347-1355. | 3.1 | 123 |
| 52 | 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 |