# Atula S D Sandanayaka

List of Publications by Year
in descending order



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|---|---|---|---|
| 108 papers | 5,754 citations | 61984<br>43 h-index | 85541<br>71 g-index |
| 110 all docs | 110 docs citations | 110 times ranked | 6008 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Recycling of Triplets into Singlets for Highâ€Performance Organic Lasers. Advanced Optical Materials, 2022, 10, 2101302. | 7.3 | 16 |
| 2 | Numerical Study of Triplet Dynamics in Organic Semiconductors Aimed for the Active Utilization of Triplets by TADF under Continuous-Wave Lasing. Journal of Physical Chemistry Letters, 2022, 13, 1323-1329. | 4.6 | 6 |
| 3 | Intramolecularâ€Locked High Efficiency Ultrapure Violetâ€Blue (CIEâ€y <0.046) Thermally Activated Delayed Fluorescence Emitters Exhibiting Amplified Spontaneous Emission. Advanced Functional Materials, 2021, 31, 2009488. | 14.9 | 88 |
| 4 | Markedly Improved Performance of Optically Pumped Organic Lasers with Two-Dimensional Distributed-Feedback Gratings. ACS Photonics, 2021, 8, 1324-1334. | 6.6 | 17 |
| 5 | Electronâ€Affinity Substituent in 2,6â€Dicarbonitrile Diphenylâ€1Î»<sup>5</sup>â€Phosphinine Towards Highâ€Quality Organic Lasing and Electroluminescence under High Current Injection. Advanced Functional Materials, 2021, 31, 2104529. | 14.9 | 14 |
| 6 | 2,6â€Dicarbonitrile Diphenylâ€1Î»<sup>5</sup>â€Phosphinine (DCNP)â€"A Robust Conjugated Building Block for Multiâ€Functional Dyes Exhibiting Tunable Amplified Spontaneous Emission. Advanced Optical Materials, 2021, 9, 2101122. | 7.3 | 11 |
| 7 | Triplet management for efficient perovskite light-emitting diodes. Nature Photonics, 2020, 14, 70-75. | 31.4 | 190 |
| 8 | Suppression of external quantum efficiency rolloff in organic light emitting diodes by scavenging triplet excitons. Nature Communications, 2020, 11, 4926. | 12.8 | 46 |
| 9 | Organic Laser Dyes: An Organic Laser Dye having a Small Singletâ€Triplet Energy Gap Makes the Selection of a Host Material Easier (Adv. Funct. Mater. 30/2020). Advanced Functional Materials, 2020, 30, 2070204. | 14.9 | 0 |
| 10 | Stable room-temperature continuous-wave lasing in quasi-2D perovskite films. Nature, 2020, 585, 53-57. | 27.8 | 384 |
| 11 | Low Amplified Spontaneous Emission and Lasing Thresholds from Hybrids of Fluorenes and Vinylphenylcarbazole. Advanced Optical Materials, 2020, 8, 2000784. | 7.3 | 14 |
| 12 | Lasing Operation under Longâ€Pulse Excitation in Solutionâ€Processed Organic Gain Medium: Toward CW Lasing in Organic Semiconductors. Advanced Optical Materials, 2020, 8, 2001234. | 7.3 | 23 |
| 13 | Organic Semiconductor Lasers: Lasing Operation under Longâ€Pulse Excitation in Solutionâ€Processed Organic Gain Medium: Toward CW Lasing in Organic Semiconductors (Advanced Optical Materials) Tj ETQq1 1 0.784314 rg BT /Overlock | 7.3 | 0 |
| 14 | An Organic Laser Dye having a Small Singletâ€Triplet Energy Gap Makes the Selection of a Host Material Easier. Advanced Functional Materials, 2020, 30, 2001078. | 14.9 | 26 |
| 15 | A spirofluorene-end-capped bis-stilbene derivative with a low amplified spontaneous emission threshold and balanced hole and electron mobilities. Optical Materials, 2020, 100, 109636. | 3.6 | 8 |
| 16 | Enhanced Operational Durability of Thermally Activated Delayed Fluorescenceâ€Based Organic Lightâ€Emitting Diodes with a Triazine Electron Transporter. Chemistry - A European Journal, 2020, 26, 5598-5602. | 3.3 | 9 |
| 17 | The Leap from Organic Light-Emitting Diodes to Organic Semiconductor Laser Diodes. CCS Chemistry, 2020, 2, 1203-1216. | 7.8 | 48 |
| 18 | High performance from extraordinarily thick organic light-emitting diodes. Nature, 2019, 572, 502-506. | 27.8 | 136 |

| # | Article | IF | Citations |
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| 19 | Origin of external quantum efficiency roll-off in 4,4â€²-bis[(<i>N</i>-carbazole)styryl]biphenyl (BSBCz)-based inverted organic light emitting diode under high pulsed electrical excitation. Journal of Applied Physics, 2019, 126, . | 2.5 | 16 |
| 20 | Large metal halide perovskite crystals for field-effect transistor applications. Applied Physics Letters, 2019, 115, . | 3.3 | 34 |
| 21 | Degradation Mechanism and Stability Improvement Strategy for an Organic Laser Gain Material 4,4â€²â€Bis[(<i>N</i>â€carbazole)styryl]biphenyl (BSBCz). Advanced Functional Materials, 2019, 29, 1807148. | 14.9 | 25 |
| 22 | Indication of current-injection lasing from an organic semiconductor. Applied Physics Express, 2019, 12, 061010. | 2.4 | 198 |
| 23 | Distributed Feedback Lasers and Light-Emitting Diodes Using 1-Naphthylmethylamnonium Low-Dimensional Perovskite. ACS Photonics, 2019, 6, 460-466. | 6.6 | 55 |
| 24 | Near-Infrared Electroluminescence and Low Threshold Amplified Spontaneous Emission above 800 nm from a Thermally Activated Delayed Fluorescent Emitter. Chemistry of Materials, 2018, 30, 6702-6710. | 6.7 | 119 |
| 25 | Low Amplified Spontaneous Emission Threshold from Organic Dyes Based on Bisâ€stilbene. Advanced Functional Materials, 2018, 28, 1802130. | 14.9 | 48 |
| 26 | Enhanced Electroluminescence from Organic Lightâ€Emitting Diodes with an Organicâ€“Inorganic Perovskite Host Layer. Advanced Materials, 2018, 30, e1802662. | 21.0 | 22 |
| 27 | Extremely low amplified spontaneous emission threshold and blue electroluminescence from a spin-coated octafluorene neat film. Applied Physics Letters, 2017, 110, 023303. | 3.3 | 40 |
| 28 | Intrinsic carrier transport properties of solution-processed organicâ€“inorganic perovskite films. Applied Physics Express, 2017, 10, 024103. | 2.4 | 34 |
| 29 | Toward continuous-wave operation of organic semiconductor lasers. Science Advances, 2017, 3, e1602570. | 10.3 | 132 |
| 30 | Influence of the organic film thickness on the second order distributed feedback resonator properties of an organic semiconductor laser. Journal of Applied Physics, 2017, 121, . | 2.5 | 6 |
| 31 | Centrifugal-Coated Quasi-Two-Dimensional Perovskite CsPb<sub>2</sub>Br<sub>5</sub> Films for Efficient and Stable Light-Emitting Diodes. Journal of Physical Chemistry Letters, 2017, 8, 5415-5421. | 4.6 | 71 |
| 32 | Quasiâ€Continuousâ€Wave Organic Thinâ€Film Distributed Feedback Laser. Advanced Optical Materials, 2016, 4, 834-839. | 7.3 | 50 |
| 33 | Improvement of the quasi-continuous-wave lasing properties in organic semiconductor lasers using oxygen as triplet quencher. Applied Physics Letters, 2016, 108, . | 3.3 | 37 |
| 34 | <i>N</i>-channel field-effect transistors with an organic-inorganic layered perovskite semiconductor. Applied Physics Letters, 2016, 109, . | 3.3 | 68 |
| 35 | Solutionâ€Processed Organicâ€“Inorganic Perovskite Fieldâ€Effect Transistors with High Hole Mobilities. Advanced Materials, 2016, 28, 10275-10281. | 21.0 | 237 |
| 36 | High-coverage organic-inorganic perovskite film fabricated by double spin coating for improved solar power conversion and amplified spontaneous emission. Chemical Physics Letters, 2016, 661, 131-135. | 2.6 | 11 |

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| 37 | Low threshold amplified spontaneous emission and ambipolar charge transport in non-volatile liquid fluorene derivatives. Chemical Communications, 2016, 52, 3103-3106. | 4.1 | 39 |
| 38 | Singlet-Triplet Exciton Annihilation Nearly Suppressed in Organic Semiconductor Laser Materials Using Oxygen as a Triplet Quencher. IEEE Journal of Selected Topics in Quantum Electronics, 2016, 22, 26-34. | 2.9 | 21 |
| 39 | Vacuum-and-solvent-free fabrication of organic semiconductor layers for field-effect transistors. Scientific Reports, 2015, 5, 14547. | 3.3 | 18 |
| 40 | Morphological control of organicâ€"inorganic perovskite layers by hot isostatic pressing for efficient planar solar cells. Journal of Materials Chemistry A, 2015, 3, 17780-17787. | 10.3 | 29 |
| 41 | Axially assembled photosynthetic reaction center mimics composed of tetrathiafulvalene, aluminum(<scp>iii</scp>) porphyrin and fullerene entities. Nanoscale, 2015, 7, 12151-12165. | 5.6 | 47 |
| 42 | Exciton Quenching Behavior of Thermally Activated Delayed Fluorescence Molecules by Charge Carriers. Journal of Physical Chemistry C, 2015, 119, 7631-7636. | 3.1 | 26 |
| 43 | Degradation Mechanisms of Organic Light-Emitting Diodes Based on Thermally Activated Delayed Fluorescence Molecules. Journal of Physical Chemistry C, 2015, 119, 23845-23851. | 3.1 | 110 |
| 44 | Photoinduced charge separation in three-layer supramolecular nanohybrids: fullereneâ€"porphyrinâ€"SWCNT. Physical Chemistry Chemical Physics, 2012, 14, 2940. | 2.8 | 18 |
| 45 | Carbon Nanohornâ€"Porphyrin Dimer Hybrid Material for Enhancing Light-Energy Conversion. Journal of Physical Chemistry C, 2012, 116, 9439-9449. | 3.1 | 52 |
| 46 | Functionalization of Diameterâ€Sorted Semiconductive SWCNTs with Photosensitizing Porphyrins: Syntheses and Photoinduced Electron Transfer. Chemistry - A European Journal, 2012, 18, 11388-11398. | 3.3 | 24 |
| 47 | Sequential Charge Separation in Two Axially Linked Phenothiazineâ^'Aluminum(III) Porphyrinâ^'Fullerene Triads. Journal of Physical Chemistry A, 2011, 115, 709-717. | 2.5 | 47 |
| 48 | Graphene oxide with covalently linked porphyrin antennae: Synthesis, characterization and photophysical properties. Journal of Materials Chemistry, 2011, 21, 109-117. | 6.7 | 232 |
| 49 | Fullerene- and Pyromellitdiimide-Appended Tripodal Ligands Embedded in Light-Harvesting Porphyrin Macrorings. Inorganic Chemistry, 2011, 50, 10249-10258. | 4.0 | 18 |
| 50 | Bionano Donorâ€"Acceptor Hybrids of Porphyrin, ssDNA, and Semiconductive Single-Wall Carbon Nanotubes for Electron Transfer via Porphyrin Excitation. Journal of the American Chemical Society, 2011, 133, 19922-19930. | 13.7 | 47 |
| 51 | Photoinduced processes of the supramolecularly functionalized semi-conductive SWCNTs with porphyrinsvia ion-pairing interactions. Energy and Environmental Science, 2011, 4, 707-716. | 30.8 | 43 |
| 52 | Diameterâ€Sorted SWCNTâ€"Porphyrin and SWCNTâ€"Phthalocyanine Conjugates for Lightâ€Energy Harvesting. ChemPhysChem, 2011, 12, 2266-2273. | 2.1 | 48 |
| 53 | Formation and photoinduced properties of zinc porphyrin-SWCNT and zinc phthalocyanine-SWCNT nanohybrids using diameter sorted nanotubes assembled via metal-ligand coordination and Ï€â€"Ï€ stacking. Journal of Porphyrins and Phthalocyanines, 2011, 15, 1033-1043. | 0.8 | 18 |
| 54 | Photoinduced Electron Transfer of SWCNT-Based Supramolecular Nanoarchitectures with Photosensitizing Molecules. Transactions of the Materials Research Society of Japan, 2011, 36, 341-344. | 0.2 | 0 |

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| 55 | Sensitive Efficiency of Photoinduced Electron Transfer to Band Gaps of Semiconductive Single-Walled Carbon Nanotubes with Supramolecularly Attached Zinc Porphyrin Bearing Pyrene Glues. Journal of the American Chemical Society, 2010, 132, 8158-8164. | 13.7 | 109 |
| 56 | SWNT-Based Supramolecular Nanoarchitectures with Photosensitizing Donor and Acceptor Molecules. Journal of Physical Chemistry Letters, 2010, 1, 2586-2593. | 4.6 | 141 |
| 57 | A Carbon Nanohornï£¿Porphyrin Supramolecular Assembly for Photoinduced Electronâ€Transfer Processes. Chemistry - A European Journal, 2010, 16, 10752-10763. | 3.3 | 45 |
| 58 | Photochemical Charge Separation in Supramolecular Phthalocyanineâ^'Multifullerene Conjugates Assembled by Crown Ether-Alkyl Ammonium Cation Interactions. Journal of Physical Chemistry A, 2010, 114, 10951-10959. | 2.5 | 46 |
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| 60 | Axle Length Effect on Photoinduced Electron Transfer in Triad Rotaxane with Porphyrin, [60]Fullerene, and Triphenylamine. Journal of Physical Chemistry A, 2010, 114, 5242-5250. | 2.5 | 21 |
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| 63 | Photoinduced Electron Transfer in Zinc Phthalocyanine Loaded on Singleâ€Walled Carbon Nanohorns in Aqueous Solution. Advanced Materials, 2009, 21, 4366-4371. | 21.0 | 44 |
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| 65 | Preparation and Photophysical and Photoelectrochemical Properties of Supramolecular Porphyrin Nanorods Structurally Controlled by Encapsulated Fullerene Derivatives. Journal of Physical Chemistry C, 2009, 113, 18369-18378. | 3.1 | 47 |
| 66 | Zinc Porphyrins Covalently Bound to the Side Walls of Single-Walled Carbon Nanotubes via Flexible Bonds: Photoinduced Electron Transfer in Polar Solvent. Journal of Physical Chemistry C, 2009, 113, 14493-14499. | 3.1 | 39 |
| 67 | Axle charge effects on photoinduced electron transfer processes in rotaxanes containing porphyrin and [60]fullerene. Physical Chemistry Chemical Physics, 2009, 11, 10908. | 2.8 | 23 |
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| 71 | Self-Assembled Supramolecular Ferroceneâ^'Fullerene Dyads and Triad:â€‰ Formation and Photoinduced Electron Transfer. Journal of Physical Chemistry C, 2008, 112, 2222-2229. | 3.1 | 25 |
| 72 | Characterization and Photoelectrochemical Properties of Nanostructured Thin Film Composed of Carbon Nanohorns Covalently Functionalized with Porphyrins. Journal of Physical Chemistry C, 2008, 112, 15735-15741. | 3.1 | 52 |

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| 73 | Structural and Photophysical Properties of Self-Assembled Porphyrin Nanoassemblies Organized by Ethylene Glycol Derivatives. Journal of Physical Chemistry C, 2008, 112, 19209-19216. | 3.1 | 46 |
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| 84 | Supramolecular Triad and Pentad Composed of Zincâ€“Porphyrin(s), Oxoporphyrinogen, and Fullerene(s): Design and Electron-Transfer Studies. Chemistry - A European Journal, 2007, 13, 4628-4635. | 3.3 | 40 |
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| 103 | Photoinduced Charge Separation and Charge Recombination in the [60]Fullereneâˆ'Diphenylbenzothiadiazoleâˆ'Triphenylamine Triad:Â Role of Diphenylbenzothiadiazole as Bridge. Journal of Physical Chemistry B, 2005, 109, 22502-22512. | 2.6 | 29 |
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| 107 | Photoinduced Electron-Transfer Processes between [C60]Fullerene and Triphenylamine Moieties Tethered by Rotaxane Structures. Through-Space Electron Transfer via Excited Triplet States of [60]Fullerene. Journal of Physical Chemistry A, 2004, 108, 5145-5155. | 2.5 | 73 |
| 108 | Photoinduced Electron-Transfer Processes of Fullerene (C60) with Amine Donors: Excited Triplet Route vs Excited Singlet Route. Bulletin of the Chemical Society of Japan, 2004, 77, 1313-1322. | 3.2 | 22 |