Sanchari Shome

List of Publications by Year
in descending order

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48 papers	2,744 citations	430874 18 h-index	254184 43 g-index
49 all docs	49 docs citations	49 times ranked	3907 citing authors

#	Article	IF	Citations
1	Guanidinium-Pseudohalide Perovskite Interfaces Enable Surface Reconstruction of Colloidal Quantum Dots for Efficient and Stable Photovoltaics. ACS Nano, 2022, 16, 1649-1660.	14.6	18
2	Design of Nonfused Nonfullerene Acceptors Based on Pyrido- or Benzothiadiazole Cores for Organic Solar Cells. ACS Applied Energy Materials, 2022, 5, 2202-2210.	5.1	14
3	Simple-Structured Low-Cost Dopant-Free Hole-Transporting Polymers for High-Stability CsPbI₂Br Perovskite Solar Cells. ACS Applied Materials & Interfaces, 2022, 14, 13400-13409.	8.0	5
4	Effect of Electron-Withdrawing Chlorine Substituent on Morphological and Photovoltaic Properties of All Chlorinated Dâ€“A-Type Quinoxaline-Based Polymers. ACS Applied Materials & Interfaces, 2022, 14, 19785-19794.	8.0	4
5	Chargeâ€Selective, Narrowâ€Gap Indium Arsenide Quantum Dot Layer for Highly Stable and Efficient Organic Photovoltaics. Advanced Energy Materials, 2022, 12, .	19.5	14
6	Improved photovoltaic performance of quinoxaline-based polymers by systematic modulation of electron-withdrawing substituents. Journal of Materials Chemistry C, 2022, 10, 10338-10346.	5.5	10
7	A polymer/small-molecule binary-blend hole transport layer for enhancing charge balance in blue perovskite light emitting diodes. Journal of Materials Chemistry A, 2022, 10, 13928-13935.	10.3	15
8	Luminance efficiency roll-off mechanism in CsPbBr_{3â”x}Cl_x mixed-halide perovskite quantum dot blue light-emitting diodes. Journal of Materials Chemistry C, 2021, 9, 3608-3619.	5.5	32
9	New 3, 8â€difluoro indoloindoleâ€based copolymers for organic solar cell. International Journal of Energy Research, 2021, 45, 7806-7813.	4.5	1
10	Recent progress of ultra-narrow-bandgap polymer donors for NIR-absorbing organic solar cells. Nanoscale Advances, 2021, 3, 4306-4320.	4.6	22
11	Ligand-engineered bandgap stability in mixed-halide perovskite LEDs. Nature, 2021, 591, 72-77.	27.8	471
12	Solvent Engineering of Colloidal Quantum Dot Inks for Scalable Fabrication of Photovoltaics. ACS Applied Materials & Interfaces, 2021, 13, 36992-37003.	8.0	17
13	Microwave-Assisted Synthesis of Non-Fullerene Acceptors and Their Photovoltaic Studies for High-Performance Organic Solar Cells. ACS Applied Energy Materials, 2021, 4, 9816-9826.	5.1	3
14	In situ cadmium surface passivation of perovskite nanocrystals for blue LEDs. Journal of Materials Chemistry A, 2021, 9, 26750-26757.	10.3	18
15	Effect of electron-withdrawing fluorine and cyano substituents on photovoltaic properties of two-dimensional quinoxaline-based polymers. Scientific Reports, 2021, 11, 24381.	3.3	6
16	Modeling and implementation of tandem polymer solar cells using wideâ€bandgap front cells. , 2020, 2, 131-142.		9
17	Molecular aggregation method for perovskiteâ€“fullerene bulk heterostructure solar cells. Journal of Materials Chemistry A, 2020, 8, 1326-1334.	10.3	15
18	Preparation of Transparent Conductive Electrode via Layer-By-Layer Deposition of Silver Nanowires and Its Application in Organic Photovoltaic Device. Nanomaterials, 2020, 10, 46.	4.1	24

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19	Impact of Chalcogenophenes on Donor-Acceptor Copolymers for Bulk Heterojunction Solar Cells. Macromolecular Research, 2020, 28, 1111-1115.	2.4	11
20	Improved size distribution of <scp> AgBiS ₂ </scp> colloidal nanocrystals by optimized synthetic route enhances photovoltaic performance. International Journal of Energy Research, 2020, 44, 11006-11014.	4.5	21
21	Improved Eco-Friendly Photovoltaics Based on Stabilized AgBiS₂ Nanocrystal Inks. Chemistry of Materials, 2020, 32, 10007-10014.	6.7	28
22	Fabrication of Conjugated Porous Polymer Catalysts for Oxygen Reduction Reactions: A Bottom-Up Approach. Catalysts, 2020, 10, 1224.	3.5	1
23	Hybrid Surface Passivation for Retrieving Charge Collection Efficiency of Colloidal Quantum Dot Photovoltaics. ACS Applied Materials & Interfaces, 2020, 12, 43576-43585.	8.0	11
24	Hierarchical novel <scp> NiCo ₂ O ₄ </scp> / <scp> BiVO ₄ </scp> hybrid heterostructure as an advanced anode material for rechargeable lithium ion battery. International Journal of Energy Research, 2020, 44, 12126-12135.	4.5	8
25	Interdigitated Hierarchical Integration of an Efficient Lateral Perovskite Singleâ€Crystal Solar Cell. ChemSusChem, 2020, 13, 1882-1889.	6.8	10
26	Addendum: Camic, B. T. et al. Preparation of Transparent Conductive Electrode via Layer-By-Layer Deposition of Silver Nanowires and Its Application in Organic Photovoltaic Device. Nanomaterials 2020, 10, 46. Nanomaterials, 2020, 10, 497.	4.1	3
27	Microwave-Epoxide-Assisted Hydrothermal Synthesis of the CuO/ZnO Heterojunction: a Highly Versatile Route to Develop H₂S Gas Sensors. ACS Omega, 2020, 5, 8587-8595.	3.5	36
28	Morphological and Optical Engineering for High-Performance Polymer Solar Cells. ACS Applied Materials & Interfaces, 2019, 11, 4705-4711.	8.0	6
29	Synthesis of Alkoxyaceneâ€Based Random Copolymers and Binary Solvent Additive for High Efficiency Organic Photovoltaics. Macromolecular Chemistry and Physics, 2019, 220, 1900409.	2.2	0
30	New Fused Pyrrolopyridineâ€Based Copolymers for Organic Solar Cell. Macromolecular Rapid Communications, 2019, 40, 1800784.	3.9	5
31	Hole transport layer based on conjugated polyelectrolytes for polymer solar cells. Journal of Colloid and Interface Science, 2018, 518, 21-26.	9.4	18
32	Twisted Linker Effect on Naphthalene Diimideâ€Based Dimer Electron Acceptors for Nonâ€fullerene Organic Solar Cells. Macromolecular Rapid Communications, 2018, 39, e1800108.	3.9	8
33	Solution-Processable transparent conducting electrodes via the self-assembly of silver nanowires for organic photovoltaic devices. Journal of Colloid and Interface Science, 2018, 512, 158-164.	9.4	16
34	Conjugated Polyelectrolytes as Efficient Hole Transport Layers in Perovskite Light-Emitting Diodes. ACS Nano, 2018, 12, 5826-5833.	14.6	56
35	Macromol. Rapid Commun. 14/2018. Macromolecular Rapid Communications, 2018, 39, 1870034.	3.9	0
36	Field Emission and Electrical Properties of Perovskite. Journal of Nanoscience and Nanotechnology, 2018, 18, 1327-1330.	0.9	0

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37	A universal processing additive for high-performance polymer solar cells. RSC Advances, 2017, 7, 7476-7482.	3.6	58
38	Alkyl Sideâ€Chain Engineering in Wideâ€Bandgap Copolymers Leading to Power Conversion Efficiencies over 10%. Advanced Materials, 2017, 29, 1604251.	21.0	213
39	Polymerizable Supramolecular Approach to Highly Conductive PEDOT:PSS Patterns. ACS Applied Materials & Interfaces, 2017, 9, 19231-19237.	8.0	19
40	Fabrication of a transparent conducting electrode based on graphene/silver nanowires via layer-by-layer method for organic photovoltaic devices. Journal of Colloid and Interface Science, 2017, 505, 79-86.	9.4	29
41	Ternary Organic Solar Cells Based on Two Highly Efficient Polymer Donors with Enhanced Power Conversion Efficiency. Advanced Energy Materials, 2016, 6, 1502109.	19.5	147
42	Influence of aromatic heterocycle of conjugated side chains on photovoltaic performance of benzodithiophene-based wide-bandgap polymers. Polymer Chemistry, 2016, 7, 4036-4045.	3.9	26
43	Photocurrent Extraction Efficiency near Unity in a Thick Polymer Bulk Heterojunction. Advanced Functional Materials, 2016, 26, 3324-3330.	14.9	48
44	Quinoxalineâ€“thiophene based thick photovoltaic devices with an efficiency of â¼8%. Journal of Materials Chemistry A, 2016, 4, 9967-9976.	10.3	49
45	High-Performance Solution-Processed Non-Fullerene Organic Solar Cells Based on Selenophene-Containing Perylene Bisimide Acceptor. Journal of the American Chemical Society, 2016, 138, 375-380.	13.7	643
46	Conjugated polyelectrolyte hole transport layer for inverted-type perovskite solar cells. Nature Communications, 2015, 6, 7348.	12.8	281
47	Smallâ€Bandgap Polymer Solar Cells with Unprecedented Shortâ€Circuit Current Density and High Fill Factor. Advanced Materials, 2015, 27, 3318-3324.	21.0	294
48	Influence of an Amide-Functionalized Monomeric Unit on the Morphology and Electronic Properties of Non-Fullerene Polymer Solar Cells. International Journal of Precision Engineering and Manufacturing - Green Technology, 0, , 1.	4.9	1