

Lian-Gang Xiao

List of Publications by Year in descending order

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Version: 2024-02-01

38
papers

1,847
citations

257450

24
h-index

361022

35
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38
docs citations

38
times ranked

2025
citing authors

#	ARTICLE	IF	CITATIONS
1	Deep Absorbing Porphyrin Small Molecule for High-Performance Organic Solar Cells with Very Low Energy Losses. <i>Journal of the American Chemical Society</i> , 2015, 137, 7282-7285.	13.7	436
2	Multi-length-scale Morphologies Driven by Mixed Additives in Porphyrin-Based Organic Photovoltaics. <i>Advanced Materials</i> , 2016, 28, 4727-4733.	21.0	251
3	Multiple Roles of a Non-fullerene Acceptor Contribute Synergistically for High-Efficiency Ternary Organic Photovoltaics. <i>Joule</i> , 2018, 2, 2154-2166.	24.0	85
4	New insight of molecular interaction, crystallization and phase separation in higher performance small molecular solar cells via solvent vapor annealing. <i>Nano Energy</i> , 2016, 30, 639-648.	16.0	77
5	Structural engineering of porphyrin-based small molecules as donors for efficient organic solar cells. <i>Chemical Science</i> , 2016, 7, 4301-4307.	7.4	72
6	Solution-processed new porphyrin-based small molecules as electron donors for highly efficient organic photovoltaics. <i>Chemical Communications</i> , 2015, 51, 14439-14442.	4.1	66
7	New Terthiophene-Conjugated Porphyrin Donors for Highly Efficient Organic Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 30176-30183.	8.0	61
8	Modifying the Chemical Structure of a Porphyrin Small Molecule with Benzothiophene Groups for the Reproducible Fabrication of High Performance Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 7131-7138.	8.0	57
9	A complementary absorption small molecule for efficient ternary organic solar cells. <i>Journal of Materials Chemistry A</i> , 2016, 4, 5288-5293.	10.3	56
10	A D-A Type Small Molecules Based on Boron Dipyrromethene for Solution-Processed Organic Solar Cells. <i>Chemistry - an Asian Journal</i> , 2015, 10, 1513-1518.	3.3	45
11	Ternary Solar Cells Based on Two Small Molecule Donors with Same Conjugated Backbone: The Role of Good Miscibility and Hole Relay Process. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 29917-29923.	8.0	45
12	A visible-near-infrared absorbing A ₂ D ₁ A type dimeric-porphyrin donor for high-performance organic solar cells. <i>Journal of Materials Chemistry A</i> , 2017, 5, 25460-25468.	10.3	45
13	Fabrication of Dexamethasone-Loaded Dual-Metal Organic Frameworks on Polyetheretherketone Implants with Bacteriostasis and Angiogenesis Properties for Promoting Bone Regeneration. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 50836-50850.	8.0	42
14	Designing hierarchical nanoporous membranes for highly efficient gas adsorption and storage. <i>Science Advances</i> , 2020, 6, .	10.3	41
15	A low-bandgap dimeric porphyrin molecule for 10% efficiency solar cells with small photon energy loss. <i>Journal of Materials Chemistry A</i> , 2018, 6, 18469-18478.	10.3	40
16	Facile integration of low-cost black phosphorus in solution-processed organic solar cells with improved fill factor and device efficiency. <i>Nano Energy</i> , 2018, 53, 345-353.	16.0	39
17	Solution-processed bulk heterojunction solar cells based on porphyrin small molecules with very low energy losses comparable to perovskite solar cells and high quantum efficiencies. <i>Journal of Materials Chemistry C</i> , 2016, 4, 3843-3850.	5.5	37
18	High-detectivity panchromatic photodetectors for the near infrared region based on a dimeric porphyrin small molecule. <i>Journal of Materials Chemistry C</i> , 2018, 6, 3341-3345.	5.5	37

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19	Porphyrin small molecules containing furan- and selenophene-substituted diketopyrrolopyrrole for bulk heterojunction organic solar cells. <i>Organic Electronics</i> , 2016, 29, 127-134.	2.6	36
20	High-Efficiency Small Molecule-Based Bulk-Heterojunction Solar Cells Enhanced by Additive Annealing. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 21495-21502.	8.0	35
21	Doping ZnO with Water/Alcohol-Soluble Small Molecules as Electron Transport Layers for Inverted Polymer Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 28225-28230.	8.0	33
22	Conjugated D ^π A porphyrin dimers for solution-processed bulk-heterojunction organic solar cells. <i>Chemical Communications</i> , 2017, 53, 5113-5116.	4.1	32
23	Dimeric Porphyrin Small Molecules for Efficient Organic Solar Cells with High Photoelectron Response in the Near-Infrared Region. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 668-675.	8.0	32
24	Highly Efficient Ternary Solar Cells with Efficient Förster Resonance Energy Transfer for Simultaneously Enhanced Photovoltaic Parameters. <i>Advanced Functional Materials</i> , 2021, 31, 2105304.	14.9	30
25	Employing a Narrow-Band-Gap Mediator in Ternary Solar Cells for Enhanced Photovoltaic Performance. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 16387-16393.	8.0	22
26	Improving the efficiencies of small molecule solar cells by solvent vapor annealing to enhance J-aggregation. <i>Journal of Materials Chemistry C</i> , 2019, 7, 9618-9624.	5.5	15
27	Substitution Effect on Thiobarbituric Acid End Groups for High Open-Circuit Voltage Non-Fullerene Organic Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 41852-41860.	8.0	14
28	Highly efficient small molecule solar cells fabricated with non-halogenated solvents. <i>RSC Advances</i> , 2015, 5, 92312-92317.	3.6	12
29	Morphology Evolution Induced by Sequential Annealing Enabling Enhanced Efficiency in All-Small Molecule Solar Cells. <i>ACS Applied Energy Materials</i> , 2021, 4, 4234-4241.	5.1	10
30	Small molecule ternary solar cell with two synergistic electron acceptors for enhanced photovoltaic performance. <i>Organic Electronics</i> , 2021, 93, 106135.	2.6	9
31	A ^π EA type Small Molecules Using Ethynylene Linkages for Organic Solar Cells with High Open-Circuit Voltages. <i>Chinese Journal of Chemistry</i> , 2016, 34, 353-358.	4.9	8
32	Conjugated ionic porphyrins as the cathode interlayer materials in organic solar cells. <i>Organic Electronics</i> , 2018, 62, 107-113.	2.6	7
33	High-Performance Blue Perovskite Light-Emitting Diodes Enabled by a Sacrificial Agent Maleic Anhydride. <i>Journal of Physical Chemistry C</i> , 0, , .	3.1	6
34	High performance sky-blue perovskite light-emitting diodes enabled by a bifunctional phosphate molecule. <i>Journal of Alloys and Compounds</i> , 2022, 897, 162727.	5.5	5
35	Facile preparation of small molecules for bulk heterojunction solar cells. <i>RSC Advances</i> , 2016, 6, 59218-59225.	3.6	4
36	Morphology optimization of perovskite films for efficient sky-blue light emitting diodes via a novel green anti-solvent dimethyl carbonate. <i>Journal of Materials Chemistry C</i> , 0, , .	5.5	2

#	ARTICLE	IF	CITATIONS
37	Porphyrin Acceptors with Two Perylene Diimide Dimers for Organic Solar Cells. ChemSusChem, 2021, 14, 3614-3621.	6.8	2
38	Research on control scheme of dual-spin projectile with fixed canards. , 2016, , .		1