

Lian-Gang Xiao

List of Publications by Year in descending order

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Version: 2024-02-01

38
papers

1,847
citations

257101

24
h-index

360668

35
g-index

38
all docs

38
docs citations

38
times ranked

2025
citing authors

#	ARTICLE	IF	CITATIONS
1	High performance sky-blue perovskite light-emitting diodes enabled by a bifunctional phosphate molecule. <i>Journal of Alloys and Compounds</i> , 2022, 897, 162727.	2.8	5
2	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.	2.5	10
3	Small molecule ternary solar cell with two synergistic electron acceptors for enhanced photovoltaic performance. <i>Organic Electronics</i> , 2021, 93, 106135.	1.4	9
4	Porphyrin Acceptors with Two Perylene Diimide Dimers for Organic Solar Cells. <i>ChemSusChem</i> , 2021, 14, 3614-3621.	3.6	2
5	Highly Efficient Ternary Solar Cells with Efficient Förster Resonance Energy Transfer for Simultaneously Enhanced Photovoltaic Parameters. <i>Advanced Functional Materials</i> , 2021, 31, 2105304.	7.8	30
6	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.	4.0	42
7	Designing hierarchical nanoporous membranes for highly efficient gas adsorption and storage. <i>Science Advances</i> , 2020, 6, .	4.7	41
8	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.	4.0	14
9	Employing a Narrow-Band-Gap Mediator in Ternary Solar Cells for Enhanced Photovoltaic Performance. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 16387-16393.	4.0	22
10	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.	2.7	15
11	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.	2.7	37
12	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.	4.0	32
13	Multiple Roles of a Non-fullerene Acceptor Contribute Synergistically for High-Efficiency Ternary Organic Photovoltaics. <i>Joule</i> , 2018, 2, 2154-2166.	11.7	85
14	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.	8.2	39
15	Conjugated ionic porphyrins as the cathode interlayer materials in organic solar cells. <i>Organic Electronics</i> , 2018, 62, 107-113.	1.4	7
16	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.	5.2	40
17	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.	4.0	57
18	Conjugated Dimeric porphyrin dimers for solution-processed bulk-heterojunction organic solar cells. <i>Chemical Communications</i> , 2017, 53, 5113-5116.	2.2	32

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19	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.	4.0	45
20	A visible-near-infrared absorbing A ² B ¹ A ² type dimeric-porphyrin donor for high-performance organic solar cells. <i>Journal of Materials Chemistry A</i> , 2017, 5, 25460-25468.	5.2	45
21	A ² B ¹ A ² 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.	2.6	8
22	Multi-length-scale Morphologies Driven by Mixed Additives in Porphyrin-based Organic Photovoltaics. <i>Advanced Materials</i> , 2016, 28, 4727-4733.	11.1	251
23	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.	4.0	33
24	Facile preparation of small molecules for bulk heterojunction solar cells. <i>RSC Advances</i> , 2016, 6, 59218-59225.	1.7	4
25	New Terthiophene-Conjugated Porphyrin Donors for Highly Efficient Organic Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 30176-30183.	4.0	61
26	Research on control scheme of dual-spin projectile with fixed canards. , 2016, , .		1
27	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.	8.2	77
28	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.	2.7	37
29	Structural engineering of porphyrin-based small molecules as donors for efficient organic solar cells. <i>Chemical Science</i> , 2016, 7, 4301-4307.	3.7	72
30	A complementary absorption small molecule for efficient ternary organic solar cells. <i>Journal of Materials Chemistry A</i> , 2016, 4, 5288-5293.	5.2	56
31	Porphyrin small molecules containing furan- and selenophene-substituted diketopyrrolopyrrole for bulk heterojunction organic solar cells. <i>Organic Electronics</i> , 2016, 29, 127-134.	1.4	36
32	A ² B ¹ A ² Type Small Molecules Based on Boron Dipyrromethene for Solution-Processed Organic Solar Cells. <i>Chemistry - an Asian Journal</i> , 2015, 10, 1513-1518.	1.7	45
33	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.	6.6	436
34	Solution-processed new porphyrin-based small molecules as electron donors for highly efficient organic photovoltaics. <i>Chemical Communications</i> , 2015, 51, 14439-14442.	2.2	66
35	Highly efficient small molecule solar cells fabricated with non-halogenated solvents. <i>RSC Advances</i> , 2015, 5, 92312-92317.	1.7	12
36	High-Efficiency Small Molecule-Based Bulk-Heterojunction Solar Cells Enhanced by Additive Annealing. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 21495-21502.	4.0	35

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37	Morphology optimization of perovskite films for efficient sky-blue light emitting diodes <i>via</i> a novel green anti-solvent dimethyl carbonate. <i>Journal of Materials Chemistry C</i> , 0, , .	2.7	2
38	High-Performance Blue Perovskite Light-Emitting Diodes Enabled by a Sacrificial Agent Maleic Anhydride. <i>Journal of Physical Chemistry C</i> , 0, , .	1.5	6