

Xueliang Shi

List of Publications by Year in descending order

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47
papers

3,222
citations

172457

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docs citations

49
times ranked

3632
citing authors

#	ARTICLE	IF	CITATIONS
1	Dithienopicenocarbazole-Based Acceptors for Efficient Organic Solar Cells with Optoelectronic Response Over 1000 nm and an Extremely Low Energy Loss. <i>Journal of the American Chemical Society</i> , 2018, 140, 2054-2057.	13.7	369
2	Over 12% Efficiency Nonfullerene All-Small-Molecule Organic Solar Cells with Sequentially Evolved Multilength Scale Morphologies. <i>Advanced Materials</i> , 2019, 31, e1807842.	21.0	272
3	Highly Efficient Organic Solar Cells Based on S,N-Heteroacene Non-Fullerene Acceptors. <i>Chemistry of Materials</i> , 2018, 30, 5429-5434.	6.7	194
4	Design of a Highly Crystalline Low-Band Gap Fused-Ring Electron Acceptor for High-Efficiency Solar Cells with Low Energy Loss. <i>Chemistry of Materials</i> , 2017, 29, 8369-8376.	6.7	180
5	Tailoring the Functionality of Organic Spacer Cations for Efficient and Stable Quasi-2D Perovskite Solar Cells. <i>Advanced Functional Materials</i> , 2019, 29, 1900221.	14.9	144
6	Approaching 16% Efficiency in All-Small-Molecule Organic Solar Cells Based on Ternary Strategy with a Highly Crystalline Acceptor. <i>Joule</i> , 2020, 4, 2223-2236.	24.0	142
7	An Electron Acceptor with Broad Visible-NIR Absorption and Unique Solid State Packing for As-Cast High Performance Binary Organic Solar Cells. <i>Advanced Functional Materials</i> , 2018, 28, 1802324.	14.9	116
8	Recent progress on all-small molecule organic solar cells using small-molecule nonfullerene acceptors. <i>Information Materials</i> , 2021, 3, 175-200.	17.3	113
9	Orthogonal Self-Assembly of a Two-Step Fluorescence-Resonance Energy Transfer System with Improved Photosensitization Efficiency and Photooxidation Activity. <i>Journal of the American Chemical Society</i> , 2021, 143, 399-408.	13.7	104
10	Toward Tetraradicaloid: The Effect of Fusion Mode on Radical Character and Chemical Reactivity. <i>Journal of the American Chemical Society</i> , 2016, 138, 1065-1077.	13.7	103
11	High-Performance Near-IR Photodetector Using Low-Bandgap MA _{0.5} FA _{0.5} Pb _{0.5} Sn _{0.5} I ₃ Perovskite. <i>Advanced Functional Materials</i> , 2017, 27, 1701053.	14.9	103
12	Dilution effect for highly efficient multiple-component organic solar cells. <i>Nature Nanotechnology</i> , 2022, 17, 53-60.	31.5	99
13	Terthieno[3,2-b]thiophene (6T) Based Low Bandgap Fused-Ring Electron Acceptor for Highly Efficient Solar Cells with a High Short-Circuit Current Density and Low Open-Circuit Voltage Loss. <i>Advanced Energy Materials</i> , 2018, 8, 1702831.	19.5	93
14	Tackling Energy Loss for High-Efficiency Organic Solar Cells with Integrated Multiple Strategies. <i>Advanced Materials</i> , 2018, 30, e1706816.	21.0	92
15	Highly Efficient Semitransparent Solar Cells with Selective Absorption and Tandem Architecture. <i>Advanced Materials</i> , 2019, 31, e1901683.	21.0	89
16	Di-Spiro-Based Hole-Transporting Materials for Highly Efficient Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2018, 8, 1800809.	19.5	79
17	High-Efficiency Nonfullerene Organic Solar Cells with a Parallel Tandem Configuration. <i>Advanced Materials</i> , 2017, 29, 1702547.	21.0	68
18	Antiaromatic bisindeno-[n]thienoacenes with small singlet biradical characters: syntheses, structures and chain length dependent physical properties. <i>Chemical Science</i> , 2014, 5, 4490-4503.	7.4	62

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19	Unexpectedly Slow Yet Efficient Picosecond to Nanosecond Photoinduced Hole-Transfer Occurs in a Polymer/Nonfullerene Acceptor Organic Photovoltaic Blend. <i>ACS Energy Letters</i> , 2018, 3, 2396-2403.	17.4	62
20	Radical-Induced Hierarchical Self-Assembly Involving Supramolecular Coordination Complexes in Both Solution and Solid States. <i>Journal of the American Chemical Society</i> , 2019, 141, 16014-16023.	13.7	62
21	Mapping Nonfullerene Acceptors with a Novel Wide Bandgap Polymer for High Performance Polymer Solar Cells. <i>Advanced Energy Materials</i> , 2018, 8, 1801214.	19.5	47
22	Biomimetic Electrodes for Flexible Organic Solar Cells with Efficiencies over 16%. <i>Advanced Optical Materials</i> , 2020, 8, 2000669.	7.3	47
23	Benzo[4,5]cyclohepta[1,2-b]fluorene: an isomeric motif for pentacene containing linearly fused five-, six- and seven-membered rings. <i>Chemical Science</i> , 2016, 7, 6176-6181.	7.4	45
24	Efficient self-assembly of heterometallic triangular necklace with strong antibacterial activity. <i>Nature Communications</i> , 2020, 11, 3178.	12.8	43
25	The Molecular Ordering and Double-Channel Carrier Generation of Nonfullerene Photovoltaics within Multi-Scale Morphology. <i>Advanced Materials</i> , 2022, 34, e2108317.	21.0	43
26	Different Strategies for the Stabilization of Acenes and Acene Analogues. <i>Chemical Record</i> , 2016, 16, 1690-1700.	5.8	42
27	Fused selenophene-thieno[3,2- <i>b</i>]thiophene-selenophene (ST)-based narrow-bandgap electron acceptor for efficient organic solar cells with small voltage loss. <i>Chemical Communications</i> , 2019, 55, 8258-8261.	4.1	42
28	Benzo-thia-fused [n]thienoacenequinodimethanes with small to moderate diradical characters: the role of pro-aromaticity versus anti-aromaticity. <i>Chemical Science</i> , 2016, 7, 3036-3046.	7.4	38
29	Dipolar Quinoidal Acene Analogues as Stable Isoelectronic Structures of Pentacene and Nonacene. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 14412-14416.	13.8	36
30	Heterocyclic Quinodimethanes. <i>Topics in Current Chemistry</i> , 2017, 375, 68.	5.8	26
31	TEMPO Radical-Functionalized Supramolecular Coordination Complexes with Controllable Spin-Spin Interactions. <i>Journal of the American Chemical Society</i> , 2021, 143, 433-441.	13.7	26
32	Solution-processable n-type and ambipolar semiconductors based on a fused cyclopentadithiophenebis(dicyanovinylene) core. <i>Chemical Communications</i> , 2013, 49, 7135.	4.1	25
33	Highly efficient synthesis of non-planar macrocycles possessing intriguing self-assembling behaviors and ethene/ethyne capture properties. <i>Nature Communications</i> , 2020, 11, 5806.	12.8	22
34	The role of dipole moment in two fused-ring electron acceptor and one polymer donor based ternary organic solar cells. <i>Materials Chemistry Frontiers</i> , 2020, 4, 1507-1518.	5.9	22
35	Pro-aromatic bisphenaleno-thieno[3,2- <i>b</i>]thiophene versus anti-aromatic bisindeno-thieno[3,2- <i>b</i>]thiophene: different ground-state properties and applications in field-effect transistors. <i>Chemical Communications</i> , 2015, 51, 13178-13180.	4.1	21
36	Effective Design Strategy of Small Bipolar Molecules through Fused Conjugation toward 2.5 V Based Redox Flow Batteries. <i>ACS Energy Letters</i> , 2022, 7, 1274-1283.	17.4	18

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37	Facile construction of well-defined radical metallacycles through coordination-driven self-assembly. <i>Materials Chemistry Frontiers</i> , 2021, 5, 1863-1871.	5.9	17
38	Controllable synthesis of ultrasmall Pd nanocatalysts templated by supramolecular coordination cages for highly efficient reductive dehalogenation. <i>Journal of Materials Chemistry A</i> , 2020, 8, 12097-12105.	10.3	16
39	Nonclassical σ -Heteroacenes with π -Quinoidal Conjugation and Open-shell Diradical Character. <i>Chemistry - A European Journal</i> , 2017, 23, 8525-8531.	3.3	15
40	The synergistic effects of central core size and end group engineering on performance of narrow bandgap nonfullerene acceptors. <i>Chemical Engineering Journal</i> , 2022, 435, 135020.	12.7	14
41	Revealing the Interfacial Photoreduction of MoO_3 with P3HT from the Molecular Weight-Dependent $\text{BiVO}_4/\text{In}_2\text{O}_3$ Degradation of P3HT:PCBM Solar Cells. <i>ACS Applied Energy Materials</i> , 2020, 3, 9714-9723.	5.1	13
42	Amplified circularly polarized luminescence promoted by hierarchical self-assembly involving Pt \cdot -Pt interactions. <i>Science China Materials</i> , 2022, 65, 469-476.	6.3	12
43	Post-synthetic Modification of Metal-Organic Frameworks Bearing Phenazine Radical Cations for Diels-Alder Reactions. <i>Chemistry - an Asian Journal</i> , 2021, 16, 3985-3992.	3.3	9
44	Redox Properties of N,N' -Disubstituted Dihydrophenazine and Dihydrodibenzo[<i>a,c</i>]phenazine: The First Isolation of Their Crystalline Radical Cations and Dications. <i>Crystal Growth and Design</i> , 2022, 22, 3587-3593.	3.0	8
45	Extended phenothiazines: synthesis, photophysical and redox properties, and efficient photocatalytic oxidative coupling of amines. <i>Chemical Science</i> , 2022, 13, 5252-5260.	7.4	7
46	Aryl carbazole-based macrocycles: synthesis, their remarkably stable radical cations and host-guest complexation with fullerenes. <i>Organic Chemistry Frontiers</i> , 2021, 8, 4678-4684.	4.5	6
47	Rotaxane-branched radical dendrimers with TEMPO termini. <i>Chemical Communications</i> , 2022, 58, 2006-2009.	4.1	4