Xue-Liang Shi

List of Publications by Year
in descending order

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59 papers	4,085 citations	117625 34 h-index	128289 60 g-index
65 all docs	65 docs citations	65 times ranked	4621 citing authors

#	Article	IF	Citations
1	Pro-aromatic and anti-aromatic Ï€-conjugated molecules: an irresistible wish to be diradicals. Chemical Society Reviews, 2015, 44, 6578-6596.	38.1	522
2	Dithienopicenocarbazole-Based Acceptors for Efficient Organic Solar Cells with Optoelectronic Response Over 1000 nm and an Extremely Low Energy Loss. Journal of the American Chemical Society, 2018, 140, 2054-2057.	13.7	369
3	Over 12% Efficiency Nonfullerene Allâ€Smallâ€Molecule Organic Solar Cells with Sequentially Evolved Multilength Scale Morphologies. Advanced Materials, 2019, 31, e1807842.	21.0	272
4	Highly Efficient Organic Solar Cells Based on S,N-Heteroacene Non-Fullerene Acceptors. Chemistry of Materials, 2018, 30, 5429-5434.	6.7	194
5	Design of a Highly Crystalline Low-Band Gap Fused-Ring Electron Acceptor for High-Efficiency Solar Cells with Low Energy Loss. Chemistry of Materials, 2017, 29, 8369-8376.	6.7	180
6	Tailoring the Functionality of Organic Spacer Cations for Efficient and Stable Quasiâ€2D Perovskite Solar Cells. Advanced Functional Materials, 2019, 29, 1900221.	14.9	144
7	Approaching 16% Efficiency in All-Small-Molecule Organic Solar Cells Based on Ternary Strategy with a Highly Crystalline Acceptor. Joule, 2020, 4, 2223-2236.	24.0	142
8	An Electron Acceptor with Broad Visibleâ€“NIR Absorption and Unique Solid State Packing for Asâ€Cast High Performance Binary Organic Solar Cells. Advanced Functional Materials, 2018, 28, 1802324.	14.9	116
9	Recent progress on <scp>allâ€small</scp> molecule organic solar cells using <scp>smallâ€molecule</scp> nonfullerene acceptors. InformaÄnÃ-MateriÃ¡ly, 2021, 3, 175-200.	17.3	113
10	Highly Efficient and Stable Perovskite Solar Cells Enabled by All-Crosslinked Charge-Transporting Layers. Joule, 2018, 2, 168-183.	24.0	105
11	Toward Tetraradicaloid: The Effect of Fusion Mode on Radical Character and Chemical Reactivity. Journal of the American Chemical Society, 2016, 138, 1065-1077.	13.7	103
12	Highâ€Performance Nearâ€IR Photodetector Using Lowâ€Bandgap MA_{0.5}FA_{0.5}Pb_{0.5}Sn_{0.5}I₃ Perovskite. Advanced Functional Materials, 2017, 27, 1701053.	14.9	103
13	Dilution effect for highly efficient multiple-component organic solar cells. Nature Nanotechnology, 2022, 17, 53-60.	31.5	99
14	Terthieno[3,2â€b]Thiophene (6T) Based Low Bandgap Fusedâ€Ring Electron Acceptor for Highly Efficient Solar Cells with a High Shortâ€Circuit Current Density and Low Openâ€Circuit Voltage Loss. Advanced Energy Materials, 2018, 8, 1702831.	19.5	93
15	Tackling Energy Loss for Highâ€Efficiency Organic Solar Cells with Integrated Multiple Strategies. Advanced Materials, 2018, 30, e1706816.	21.0	92
16	Highly Efficient Semitransparent Solar Cells with Selective Absorption and Tandem Architecture. Advanced Materials, 2019, 31, e1901683.	21.0	89
17	Diâ€Spiroâ€Based Holeâ€Transporting Materials for Highly Efficient Perovskite Solar Cells. Advanced Energy Materials, 2018, 8, 1800809.	19.5	79
18	Cyanated Diazatetracene Diimides with Ultrahigh Electron Affinity for n-Channel Field Effect Transistors. Organic Letters, 2013, 15, 1194-1197.	4.6	72

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19	Highâ€Efficiency Nonfullerene Organic Solar Cells with a Parallel Tandem Configuration. Advanced Materials, 2017, 29, 1702547.	21.0	68
20	Antiaromatic bisindeno-[n]thienoacenes with small singlet biradical characters: syntheses, structures and chain length dependent physical properties. Chemical Science, 2014, 5, 4490-4503.	7.4	62
21	Unexpectedly Slow Yet Efficient Picosecond to Nanosecond Photoinduced Hole-Transfer Occurs in a Polymer/Nonfullerene Acceptor Organic Photovoltaic Blend. ACS Energy Letters, 2018, 3, 2396-2403.	17.4	62
22	Radical-Induced Hierarchical Self-Assembly Involving Supramolecular Coordination Complexes in Both Solution and Solid States. Journal of the American Chemical Society, 2019, 141, 16014-16023.	13.7	62
23	Mapping Nonfullerene Acceptors with a Novel Wide Bandgap Polymer for High Performance Polymer Solar Cells. Advanced Energy Materials, 2018, 8, 1801214.	19.5	47
24	Biomimetic Electrodes for Flexible Organic Solar Cells with Efficiencies over 16%. Advanced Optical Materials, 2020, 8, 2000669.	7.3	47
25	Benzo[4,5]cyclohepta[1,2-b]fluorene: an isomeric motif for pentacene containing linearly fused five-, six- and seven-membered rings. Chemical Science, 2016, 7, 6176-6181.	7.4	45
26	Stable 7,14-Disubstituted-5,12-Dithiapentacenes with Quinoidal Conjugation. Organic Letters, 2014, 16, 3966-3969.	4.6	44
27	Efficient self-assembly of heterometallic triangular necklace with strong antibacterial activity. Nature Communications, 2020, 11, 3178.	12.8	43
28	The Molecular Ordering and Doubleâ€Channel Carrier Generation of Nonfullerene Photovoltaics within Multiâ€Lengthâ€Scale Morphology. Advanced Materials, 2022, 34, e2108317.	21.0	43
29	Different Strategies for the Stabilization of Acenes and Acene Analogues. Chemical Record, 2016, 16, 1690-1700.	5.8	42
30	Fused selenophene-thieno[3,2-b]thiopheneâ€“selenophene (ST)-based narrow-bandgap electron acceptor for efficient organic solar cells with small voltage loss. Chemical Communications, 2019, 55, 8258-8261.	4.1	42
31	Recent advances and perspectives on supramolecular radical cages. Chemical Science, 2021, 12, 13648-13663.	7.4	41
32	AIE-active Metal-organic Coordination Complexes Based on Tetraphenylethylene Unit and Their Applications. Chinese Journal of Polymer Science (English Edition), 2019, 37, 372-382.	3.8	40
33	Theoretical Study of Excited State Charge Transfer Characteristics based on Aâ€“Dâ€“A and Aâ€“DAâ€²Dâ€“A Type Nonfullerene Acceptors. Journal of Physical Chemistry C, 2021, 125, 10250-10259.	3.1	40
34	Benzo-thia-fused [n]thienoacenequinodimethanes with small to moderate diradical characters: the role of pro-aromaticity versus anti-aromaticity. Chemical Science, 2016, 7, 3036-3046.	7.4	38
35	Dipolar Quinoidal Acene Analogues as Stable Isoelectronic Structures of Pentacene and Nonacene. Angewandte Chemie - International Edition, 2015, 54, 14412-14416.	13.8	36
36	Thienoaceneâ€Fused Pentalenes: Syntheses, Structures, Physical Properties and Applications for Organic Fieldâ€Effect Transistors. Chemistry - A European Journal, 2015, 21, 2019-2028.	3.3	35

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37	Heterocyclic Quinodimethanes. Topics in Current Chemistry, 2017, 375, 68.	5.8	26
38	TEMPO Radical-Functionalized Supramolecular Coordination Complexes with Controllable Spinâ€“Spin Interactions. Journal of the American Chemical Society, 2021, 143, 433-441.	13.7	26
39	Solution-processable n-type and ambipolar semiconductors based on a fused cyclopentadithiophenebis(dicyanovinylene) core. Chemical Communications, 2013, 49, 7135.	4.1	25
40	NIR Photodetectors with Highly Efficient Detectivity Enabled by 2D Fluorinated Dithienopicenocarbazoleâ€Based Ultraâ€Narrow Bandgap Acceptors. Advanced Functional Materials, 2022, 32, .	14.9	24
41	Highly efficient synthesis of non-planar macrocycles possessing intriguing self-assembling behaviors and ethene/ethyne capture properties. Nature Communications, 2020, 11, 5806.	12.8	22
42	The role of dipole moment in two fused-ring electron acceptor and one polymer donor based ternary organic solar cells. Materials Chemistry Frontiers, 2020, 4, 1507-1518.	5.9	22
43	Pro-aromatic bisphenaleno-thieno[3,2-b]thiophene versus anti-aromatic bisindeno-thieno[3,2-b]thiophene: different ground-state properties and applications in field-effect transistors. Chemical Communications, 2015, 51, 13178-13180.	4.1	21
44	Triphenylamine (TPA) radical cations and related macrocycles. Chinese Chemical Letters, 2021, 32, 3331-3341.	9.0	20
45	Effective Design Strategy of Small Bipolar Molecules through Fused Conjugation toward 2.5 V Based Redox Flow Batteries. ACS Energy Letters, 2022, 7, 1274-1283.	17.4	18
46	Facile construction of well-defined radical metallacycles through coordination-driven self-assembly. Materials Chemistry Frontiers, 2021, 5, 1863-1871.	5.9	17
47	Synthesis and in vitro antiprotozoal activities of 5-phenyliminobenzo[a]phenoxazine derivatives. Bioorganic and Medicinal Chemistry Letters, 2011, 21, 5804-5807.	2.2	16
48	The synthesis and third-order nonlinear optical properties of resonance Benzo[a]phenoxazinium salts. Dyes and Pigments, 2011, 88, 50-56.	3.7	16
49	Controllable synthesis of ultrasmall Pd nanocatalysts templated by supramolecular coordination cages for highly efficient reductive dehalogenation. Journal of Materials Chemistry A, 2020, 8, 12097-12105.	10.3	16
50	Nonâ€classical Sâ€Heteroacenes with oâ€Quinoidal Conjugation and Openâ€Shell Diradical Character. Chemistry - A European Journal, 2017, 23, 8525-8531.	3.3	15
51	The synergistic effects of central core size and end group engineering on performance of narrow bandgap nonfullerene acceptors. Chemical Engineering Journal, 2022, 435, 135020.	12.7	14
52	Postâ€Synthetic Modification of Metalâ€Organic Frameworks Bearing Phenazine Radical Cations for azaâ€Dielsâ€Alder Reactions. Chemistry - an Asian Journal, 2021, 16, 3985-3992.	3.3	9
53	Redox Properties of N,Nâ€²-Disubstituted Dihydrophenazine and Dihydrodibenzo[a,c]phenazine: The First Isolation of Their Crystalline Radical Cations and Dications. Crystal Growth and Design, 2022, 22, 3587-3593.	3.0	8
54	Synthesis and characterization of an unexpected mechanochromicbistricyclic aromatic ene. Chinese Chemical Letters, 2020, 31, 1847-1850.	9.0	7

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55	Triphenylamines consisting of bulky 3,5-diâ€‘tertâ€‘butylâ€‘4-anisyl group: Synthesis, redox properties and their radical cation species. Chinese Chemical Letters, 2022, 33, 1870-1874.	9.0	7
56	Extended phenothiazines: synthesis, photophysical and redox properties, and efficient photocatalytic oxidative coupling of amines. Chemical Science, 2022, 13, 5252-5260.	7.4	7
57	Aryl carbazole-based macrocycles: synthesis, their remarkably stable radical cations and hostâ€“guest complexation with fullerenes. Organic Chemistry Frontiers, 2021, 8, 4678-4684.	4.5	6
58	Rotaxane-branched radical dendrimers with TEMPO termini. Chemical Communications, 2022, 58, 2006-2009.	4.1	4
59	Heterocyclic Quinodimethanes. Topics in Current Chemistry Collections, 2017, , 169-207.	0.5	2