

# 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	Triphenylamines consisting of bulky 3,5-di- <i>t</i> -butyl-4-anisyl group: Synthesis, redox properties and their radical cation species. <i>Chinese Chemical Letters</i> , 2022, 33, 1870-1874.	9.0	7
2	Rotaxane-branched radical dendrimers with TEMPO termini. <i>Chemical Communications</i> , 2022, 58, 2006-2009.	4.1	4
3	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
4	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
5	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
6	The Molecular Ordering and Double-Channel Carrier Generation of Nonfullerene Photovoltaics within Multi-Length-Scale Morphology. <i>Advanced Materials</i> , 2022, 34, e2108317.	21.0	43
7	Dilution effect for highly efficient multiple-component organic solar cells. <i>Nature Nanotechnology</i> , 2022, 17, 53-60.	31.5	99
8	Redox Properties of <i>N,N</i> -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
9	NIR Photodetectors with Highly Efficient Detectivity Enabled by 2D Fluorinated Dithienopicenocarbazole-Based Ultra-Narrow Bandgap Acceptors. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	24
10	Recent progress on small molecule organic solar cells using small molecule nonfullerene acceptors. <i>Informa-Materially</i> , 2021, 3, 175-200.	17.3	113
11	Recent advances and perspectives on supramolecular radical cages. <i>Chemical Science</i> , 2021, 12, 13648-13663.	7.4	41
12	Facile construction of well-defined radical metallacycles through coordination-driven self-assembly. <i>Materials Chemistry Frontiers</i> , 2021, 5, 1863-1871.	5.9	17
13	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
14	Theoretical Study of Excited State Charge Transfer Characteristics based on A <sup>D</sup> A and A <sup>DA</sup> A Type Nonfullerene Acceptors. <i>Journal of Physical Chemistry C</i> , 2021, 125, 10250-10259.	3.1	40
15	Triphenylamine (TPA) radical cations and related macrocycles. <i>Chinese Chemical Letters</i> , 2021, 32, 3331-3341.	9.0	20
16	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
17	Post-Synthetic Modification of Metal-Organic Frameworks Bearing Phenazine Radical Cations for azadiels-alder Reactions. <i>Chemistry - an Asian Journal</i> , 2021, 16, 3985-3992.	3.3	9
18	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

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19	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
20	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
21	Efficient self-assembly of heterometallic triangular necklace with strong antibacterial activity. <i>Nature Communications</i> , 2020, 11, 3178.	12.8	43
22	Biomimetic Electrodes for Flexible Organic Solar Cells with Efficiencies over 16%. <i>Advanced Optical Materials</i> , 2020, 8, 2000669.	7.3	47
23	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
24	Synthesis and characterization of an unexpected mechanochromicbistricyclic aromatic ene. <i>Chinese Chemical Letters</i> , 2020, 31, 1847-1850.	9.0	7
25	Highly Efficient Semitransparent Solar Cells with Selective Absorption and Tandem Architecture. <i>Advanced Materials</i> , 2019, 31, e1901683.	21.0	89
26	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
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	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
29	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
30	AIE-active Metal-organic Coordination Complexes Based on Tetraphenylethylene Unit and Their Applications. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2019, 37, 372-382.	3.8	40
31	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
32	Terthieno[3,2- <i>b</i> ]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
33	Tackling Energy Loss for High-Efficiency Organic Solar Cells with Integrated Multiple Strategies. <i>Advanced Materials</i> , 2018, 30, e1706816.	21.0	92
34	Highly Efficient and Stable Perovskite Solar Cells Enabled by All-Crosslinked Charge-Transporting Layers. <i>Joule</i> , 2018, 2, 168-183.	24.0	105
35	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
36	Dia-Spiro-Based Hole-Transporting Materials for Highly Efficient Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2018, 8, 1800809.	19.5	79

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37	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
38	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
39	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
40	High-Performance Near-IR Photodetector Using Low-Bandgap MA <sub>0.5</sub> FA <sub>0.5</sub> Pb <sub>0.5</sub> Sn <sub>0.5</sub> I <sub>3</sub> Perovskite. <i>Advanced Functional Materials</i> , 2017, 27, 1701053.	14.9	103
41	Non-classical S-Heteroacenes with <i>o</i> -Quinoidal Conjugation and Open-Shell Diradical Character. <i>Chemistry - A European Journal</i> , 2017, 23, 8525-8531.	3.3	15
42	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
43	High-Efficiency Nonfullerene Organic Solar Cells with a Parallel Tandem Configuration. <i>Advanced Materials</i> , 2017, 29, 1702547.	21.0	68
44	Heterocyclic Quinodimethanes. <i>Topics in Current Chemistry</i> , 2017, 375, 68.	5.8	26
45	Heterocyclic Quinodimethanes. <i>Topics in Current Chemistry Collections</i> , 2017, , 169-207.	0.5	2
46	Different Strategies for the Stabilization of Acenes and Acene Analogues. <i>Chemical Record</i> , 2016, 16, 1690-1700.	5.8	42
47	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
48	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
49	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
50	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
51	Pro-aromatic and anti-aromatic $\pi$ -conjugated molecules: an irresistible wish to be diradicals. <i>Chemical Society Reviews</i> , 2015, 44, 6578-6596.	38.1	522
52	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. <i>Chemical Communications</i> , 2015, 51, 13178-13180.	4.1	21
53	Thienoacene-Fused Pentalenes: Syntheses, Structures, Physical Properties and Applications for Organic Field-Effect Transistors. <i>Chemistry - A European Journal</i> , 2015, 21, 2019-2028.	3.3	35
54	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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55	Stable 7,14-Disubstituted-5,12-Dithiapentacenes with Quinoidal Conjugation. <i>Organic Letters</i> , 2014, 16, 3966-3969.	4.6	44
56	Cyanated Diazatetracene Diimides with Ultrahigh Electron Affinity for <i>n</i> -Channel Field Effect Transistors. <i>Organic Letters</i> , 2013, 15, 1194-1197.	4.6	72
57	Solution-processable n-type and ambipolar semiconductors based on a fused cyclopentadithiophenebis(dicyanovinylene) core. <i>Chemical Communications</i> , 2013, 49, 7135.	4.1	25
58	Synthesis and in vitro antiprotozoal activities of 5-phenyliminobenzo[a]phenoxazine derivatives. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2011, 21, 5804-5807.	2.2	16
59	The synthesis and third-order nonlinear optical properties of resonance Benzo[a]phenoxazinium salts. <i>Dyes and Pigments</i> , 2011, 88, 50-56.	3.7	16