

Jian-Long Xia

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75
papers

4,120
citations

30
h-index

64
g-index

85
ext. papers

4,816
ext. citations

8
avg, IF

5.7
L-index

#	Paper	IF	Citations
75	Battery-Supercapacitor Hybrid Devices: Recent Progress and Future Prospects. <i>Advanced Science</i> , 2017 , 4, 1600539	13.6	912
74	Single-molecule diodes with high rectification ratios through environmental control. <i>Nature Nanotechnology</i> , 2015 , 10, 522-7	28.7	278
73	Quantitative Intramolecular Singlet Fission in Bipentacenes. <i>Journal of the American Chemical Society</i> , 2015 , 137, 8965-72	16.4	262
72	Gram-scale synthesis and crystal structures of [8]- and [10]CPP, and the solid-state structure of C60@[10]CPP. <i>Chemical Science</i> , 2012 , 3, 3018	9.4	250
71	Synthesis, characterization, and crystal structure of [6]cycloparaphenylene. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 2474-6	16.4	246
70	A design strategy for intramolecular singlet fission mediated by charge-transfer states in donor-acceptor organic materials. <i>Nature Materials</i> , 2015 , 14, 426-33	27	243
69	Molecular length dictates the nature of charge carriers in single-molecule junctions of oxidized oligothiophenes. <i>Nature Chemistry</i> , 2015 , 7, 209-14	17.6	119
68	Achieving over 17% efficiency of ternary all-polymer solar cells with two well-compatible polymer acceptors. <i>Joule</i> , 2021 , 5, 1548-1565	27.8	118
67	Singlet Fission: Progress and Prospects in Solar Cells. <i>Advanced Materials</i> , 2017 , 29, 1601652	24	116
66	Breakdown of interference rules in azulene, a nonalternant hydrocarbon. <i>Nano Letters</i> , 2014 , 14, 2941-5	11.5	99
65	Synthesis, characterization, and computational studies of cycloparaphenylene dimers. <i>Journal of the American Chemical Society</i> , 2012 , 134, 19709-15	16.4	97
64	Synthesis, Characterization, and Crystal Structure of [6]Cycloparaphenylene. <i>Angewandte Chemie</i> , 2012 , 124, 2524-2526	3.6	73
63	Properties of sizeable [n]cycloparaphenylenes as molecular models of single-wall carbon nanotubes elucidated by Raman spectroscopy: structural and electron-transfer responses under mechanical stress. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 7033-7	16.4	70
62	Tightening of the nanobelt upon multielectron reduction. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 5033-6	16.4	67
61	New insights into the design of conjugated polymers for intramolecular singlet fission. <i>Nature Communications</i> , 2018 , 9, 2999	17.4	61
60	Selective and Gram-Scale Synthesis of [6]Cycloparaphenylene. <i>Synlett</i> , 2015 , 26, 1615-1619	2.2	57
59	Spectroscopic and Computational Studies of the Ligand Redox Non-Innocence in Mono- and Binuclear Ruthenium Vinyl Complexes. <i>Organometallics</i> , 2011 , 30, 1852-1858	3.8	57

58	Cycloparaphenylenes (CPPs): An Overview of Synthesis, Properties, and Potential Applications. <i>Asian Journal of Organic Chemistry</i> , 2018 , 7, 2161-2181	3	55
57	Triplet Acceptors with a D-A Structure and Twisted Conformation for Efficient Organic Solar Cells. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 15043-15049	16.4	45
56	Novel Star-Shaped Helical Perylene Diimide Electron Acceptors for Efficient Additive-Free Nonfullerene Organic Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 27894-27901	9.5	44
55	Mapping the Transmission Functions of Single-Molecule Junctions. <i>Nano Letters</i> , 2016 , 16, 3949-54	11.5	43
54	Bandgap engineering through controlled oxidation of polythiophenes. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 1832-6	16.4	42
53	Synthesis, Characterization, and Properties of Anthracene-Bridged Bimetallic Ruthenium Vinyl Complexes [RuCl(CO)(PMe ₃) ₃] ₂ (E-CH=CH-anthracene-CH=CH). <i>Organometallics</i> , 2011 , 30, 5763-5770	3.8	37
52	Synthesis and Characterization of Dithia[3.3]paracyclophane-Bridged Binuclear Ruthenium Vinyl and Alkynyl Complexes. <i>Organometallics</i> , 2012 , 31, 5321-5333	3.8	36
51	Octamethyl-substituted Pd(II) phthalocyanine with long carrier lifetime as a dopant-free hole selective material for performance enhancement of perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 24416-24424	13	35
50	Synthesis of diarylethene derivatives containing various heterocycles and tuning of light-emitting properties in a turn-on fluorescent diarylethene system. <i>Dyes and Pigments</i> , 2011 , 90, 290-296	4.6	35
49	Restrained light-soaking and reduced hysteresis in perovskite solar cells employing a helical perylene diimide interfacial layer. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 10379-10387	13	33
48	The Role of Through-Space Interactions in Modulating Constructive and Destructive Interference Effects in Benzene. <i>Nano Letters</i> , 2017 , 17, 4436-4442	11.5	32
47	Fast Singlet Exciton Decay in Push-Pull Molecules Containing Oxidized Thiophenes. <i>Journal of Physical Chemistry B</i> , 2015 , 119, 7644-50	3.4	31
46	Synthesis of novel diarylethene compounds containing two imidazole bridge units and tuning of their optical properties. <i>Dyes and Pigments</i> , 2011 , 90, 245-252	4.6	30
45	Experimental and theoretical studies of charge delocalization in biruthenium-alkynyl complexes bridged by thiophenes. <i>Chemistry - an Asian Journal</i> , 2013 , 8, 2023-32	4.5	28
44	Bridge-localized HOMO-binding character of divinylanthracene-bridged dinuclear ruthenium carbonyl complexes: spectroscopic, spectroelectrochemical, and computational studies. <i>Chemistry - an Asian Journal</i> , 2014 , 9, 1152-60	4.5	28
43	Hole Transfer Originating from Weakly Bound Exciton Dissociation in Acceptor-Donor-Acceptor Nonfullerene Organic Solar Cells. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 7100-7106	6.4	26
42	An experimental study on the effect of substituents on aromatic-aromatic interactions in dithia[3,3]-metaparacyclophanes. <i>Chemistry - A European Journal</i> , 2012 , 18, 3611-20	4.8	26
41	Quantum Dynamics Simulations Reveal Vibronic Effects on the Optical Properties of [n]Cycloparaphenylenes. <i>Journal of Chemical Theory and Computation</i> , 2014 , 10, 4025-36	6.4	25

40	Breaking Down Resonance: Nonlinear Transport and the Breakdown of Coherent Tunneling Models in Single Molecule Junctions. <i>Nano Letters</i> , 2019 , 19, 2555-2561	11.5	25
39	Properties of Sizeable [n]Cycloparaphenylenes as Molecular Models of Single-Wall Carbon Nanotubes Elucidated by Raman Spectroscopy: Structural and Electron-Transfer Responses under Mechanical Stress. <i>Angewandte Chemie</i> , 2014 , 126, 7153-7157	3.6	22
38	Tightening of the Nanobelt upon Multielectron Reduction. <i>Angewandte Chemie</i> , 2013 , 125, 5137-5140	3.6	21
37	Bimetallic Ruthenium Complexes: Synthesis, Characterization, and the Effect of Appending Long Carbon Chains to Their Bridges. <i>Organometallics</i> , 2010 , 29, 1150-1156	3.8	21
36	Bandgap Engineering through Controlled Oxidation of Polythiophenes. <i>Angewandte Chemie</i> , 2014 , 126, 1863-1867	3.6	18
35	High performance PDI based ternary organic solar cells fabricated with non-halogenated solvent. <i>Organic Electronics</i> , 2019 , 73, 205-211	3.5	16
34	Achieving Long-Lived Triplet States in Intramolecular SF Films through Molecular Engineering. <i>CheM</i> , 2019 , 5, 2405-2417	16.2	15
33	Dithia[3.3]paracyclophane-based monometal ruthenium acetylide complexes: synthesis, characterization and substituent effects. <i>Dalton Transactions</i> , 2013 , 42, 7177-89	4.3	15
32	Influence of Nanostructure on the Exciton Dynamics of Multichromophore Donor-Acceptor Block Copolymers. <i>ACS Nano</i> , 2017 , 11, 4593-4598	16.7	14
31	Ring fusion attenuates the device performance: star-shaped long helical perylene diimide based non-fullerene acceptors. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 9564-9572	7.1	14
30	Synthesis and Characterization of Conjugated Diallenes and Their Binuclear Ruthenium π -Allyl Complexes. <i>Organometallics</i> , 2009 , 28, 2701-2706	3.8	14
29	Dithia[3.3]paracyclophane-bridged bimetallic ruthenium acetylide complexes: synthesis, structures and influence of transannular π -interactions on their electronic properties. <i>Dalton Transactions</i> , 2013 , 42, 14212-22	4.3	13
28	Tuning Biradical Character to Enable High and Balanced Ambipolar Charge Transport in a Quinoidal π -System. <i>Organic Letters</i> , 2020 , 22, 2553-2558	6.2	12
27	Synthesis and characterization of (CHCH) _n -bridged (n=1, 2, 3) heterobimetallic and trimetallic ferrocene-ruthenium complexes. <i>Journal of Organometallic Chemistry</i> , 2010 , 695, 809-815	2.3	12
26	A novel conjugated [2]rotaxane with an Ru-containing axle constructed from a carboxy-functionalized bis-terpyridyl ruthenium complex and β -cyclodextrin: Synthesis, characterization, and properties. <i>Journal of Organometallic Chemistry</i> , 2010 , 695, 323-326	2.3	11
25	Isomeric Effect on Optoelectronic Properties and Photovoltaic Performance of Anthraquinone-Core Perylene Diimide (PDI) and Helical PDI dimers. <i>Chemistry - A European Journal</i> , 2019 , 25, 12137-12144	4.8	10
24	Synthesis and Characterization of Dithia[3.3]metaparacyclophane-Bridged Dimetallic Ruthenium Acetylide Complexes. <i>European Journal of Inorganic Chemistry</i> , 2014 , 2014, 247-255	2.3	10
23	A perylene diimide electron acceptor with a triphenylamine core: promoting photovoltaic performance via hot spin-coating. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 2135-2141	7.1	10

22	Effect of the Energy Offset on the Charge Dynamics in Nonfullerene Organic Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 43984-43991	9.5	10
21	Extension, Selenium Incorporation, and Trimerization: "Three in One" for Efficient Perylene Diimide Oligomer-Based Organic Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 9528-9538	9.5	9
20	Molecular Regulation on Carbonyl-Based Organic Cathodes: Toward High-Rate and Long-Lifespan Potassium-Organic Batteries. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 16396-16406	9.5	9
19	Extension improves the photovoltaic performance: a helical perylene diimide oligomer based three-dimensional non-fullerene acceptor. <i>Materials Chemistry Frontiers</i> , 2019 , 3, 2414-2420	7.8	8
18	Substituted diethynyldithia[3.3]paracyclophanes: Synthetically more accessible new building blocks for molecular scaffolding. <i>New Journal of Chemistry</i> , 2011 , 35, 97-102	3.6	7
17	Triplet Acceptors with a D-A Structure and Twisted Conformation for Efficient Organic Solar Cells. <i>Angewandte Chemie</i> , 2020 , 132, 15153-15159	3.6	6
16	Synthesis, crystal structure and electronic properties of [3.3]metaparacyclophane-bridged bimetallic ruthenium alkynyl complexes. <i>Journal of Organometallic Chemistry</i> , 2016 , 803, 111-118	2.3	6
15	BN-embedded eleven-ring fused heteroaromatics: Synthesis, optoelectronic properties and fluoride susceptibility. <i>Dyes and Pigments</i> , 2020 , 177, 108271	4.6	5
14	Dialectics of nature: Temporal and spatial regulation in material sciences. <i>Nano Research</i> , 2017 , 10, 1115-1124	1.24	3
13	A helical perylene diimide-based acceptor for non-fullerene organic solar cells: synthesis, morphology and exciton dynamics. <i>Royal Society Open Science</i> , 2018 , 5, 172041	3.3	3
12	Synthesis, characterization, and properties of conjugated binuclear bis-terpyridyl ruthenium complexes. <i>Transition Metal Chemistry</i> , 2011 , 36, 611-615	2.1	3
11	Tetraphenylethylene vs triphenylethylene core-based perylene diimide acceptor for non-fullerene organic solar cells. <i>Dyes and Pigments</i> , 2021 , 184, 108813	4.6	3
10	Synthesis, characterization, and properties of binuclear ruthenium complexes with dendritic side chains on their bridges. <i>Inorganica Chimica Acta</i> , 2011 , 370, 286-291	2.7	2
9	Understanding the molecular mechanisms of the differences in the efficiency and stability of all-polymer solar cells. <i>Journal of Materials Chemistry C</i> , 2022 , 10, 1850-1861	7.1	2
8	Charge transfer states impact the triplet pair dynamics of singlet fission polymers. <i>Journal of Chemical Physics</i> , 2020 , 153, 244902	3.9	2
7	Reactions of [Cp* <i>Ru</i> (H ₂ O)(NBD)] ⁺ with diynes. <i>Transition Metal Chemistry</i> , 2009 , 34, 389-393	2.1	1
6	Unfused vs fused thienoazacoronene-cored perylene diimide oligomer based acceptors for non-fullerene organic solar cells. <i>Dyes and Pigments</i> , 2021 , 196, 109833	4.6	1
5	Perylene Diimide Hexamer Based on Combination of Direct and Indirect Linkage Manners for Non-fullerene Organic Solar Cells. <i>Chemistry - an Asian Journal</i> , 2021 , 16, 3767-3773	4.5	0

- 4 Synthesis and characterization of binuclear ruthenium vinyl complexes: effect of transannular substituents on their optoelectronic properties. *Transition Metal Chemistry*, **2015**, 40, 799-806 2.1
- 3 Innenfunktionalisierung: Bandgap Engineering through Controlled Oxidation of Polythiophenes (Angew. Chem. 7/2014). *Angewandte Chemie*, **2014**, 126, 2033-2033 3.6
- 2 Promoting the photovoltaic performance and stability of organic solar cells by imidazole-doped PEDOT:PSS. *Journal of Materials Science: Materials in Electronics*, **2022**, 33, 12083 2.1
- 1 Boosting the Photovoltaic Performance and Thermal Stability of Organic Solar Cells via an Insulating Fluoropolymer Additive.. *ChemPlusChem*, **2022**, e202200045 2.8