

# Jian-Long Xia

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Understanding the molecular mechanisms of the differences in the efficiency and stability of all-polymer solar cells. <i>Journal of Materials Chemistry C</i> , <b>2022</b> , 10, 1850-1861	7.1	2
74	Promoting the photovoltaic performance and stability of organic solar cells by imidazole-doped PEDOT:PSS. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2022</b> , 33, 12083	2.1	
73	Boosting the Photovoltaic Performance and Thermal Stability of Organic Solar Cells via an Insulating Fluoropolymer Additive.. <i>ChemPlusChem</i> , <b>2022</b> , e202200045	2.8	
72	Molecular Regulation on Carbonyl-Based Organic Cathodes: Toward High-Rate and Long-Lifespan Potassium-Organic Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 16396-16406	9.5	9
71	Achieving over 17% efficiency of ternary all-polymer solar cells with two well-compatible polymer acceptors. <i>Joule</i> , <b>2021</b> , 5, 1548-1565	27.8	118
70	Tetraphenylethylene vs triphenylethylene core-based perylene diimide acceptor for non-fullerene organic solar cells. <i>Dyes and Pigments</i> , <b>2021</b> , 184, 108813	4.6	3
69	Perylene Diimide Hexamer Based on Combination of Direct and Indirect Linkage Manners for Non-fullerene Organic Solar Cells. <i>Chemistry - an Asian Journal</i> , <b>2021</b> , 16, 3767-3773	4.5	0
68	Unfused vs fused thienoazacoronene-cored perylene diimide oligomer based acceptors for non-fullerene organic solar cells. <i>Dyes and Pigments</i> , <b>2021</b> , 196, 109833	4.6	1
67	Triplet Acceptors with a D-A Structure and Twisted Conformation for Efficient Organic Solar Cells. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 15043-15049	16.4	45
66	Triplet Acceptors with a D-A Structure and Twisted Conformation for Efficient Organic Solar Cells. <i>Angewandte Chemie</i> , <b>2020</b> , 132, 15153-15159	3.6	6
65	Tuning Biradical Character to Enable High and Balanced Ambipolar Charge Transport in a Quinoidal ESystem. <i>Organic Letters</i> , <b>2020</b> , 22, 2553-2558	6.2	12
64	BN-embedded eleven-ring fused heteroaromatics: Synthesis, optoelectronic properties and fluoride susceptibility. <i>Dyes and Pigments</i> , <b>2020</b> , 177, 108271	4.6	5
63	Charge transfer states impact the triplet pair dynamics of singlet fission polymers. <i>Journal of Chemical Physics</i> , <b>2020</b> , 153, 244902	3.9	2
62	A perylene diimide electron acceptor with a triphenylamine core: promoting photovoltaic performance via hot spin-coating. <i>Journal of Materials Chemistry C</i> , <b>2020</b> , 8, 2135-2141	7.1	10
61	EExtension, Selenium Incorporation, and Trimerization: "Three in One" for Efficient Perylene Diimide Oligomer-Based Organic Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 9528-9538	8.5	9
60	Effect of the Energy Offset on the Charge Dynamics in Nonfullerene Organic Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 43984-43991	9.5	10
59	EExtension improves the photovoltaic performance: a helical perylene diimide oligomer based three-dimensional non-fullerene acceptor. <i>Materials Chemistry Frontiers</i> , <b>2019</b> , 3, 2414-2420	7.8	8

58	High performance PDI based ternary organic solar cells fabricated with non-halogenated solvent. <i>Organic Electronics</i> , <b>2019</b> , 73, 205-211	3.5	16
57	Ring fusion attenuates the device performance: star-shaped long helical perylene diimide based non-fullerene acceptors. <i>Journal of Materials Chemistry C</i> , <b>2019</b> , 7, 9564-9572	7.1	14
56	Isomeric Effect on Optoelectronic Properties and Photovoltaic Performance of Anthraquinone-Core Perylene Diimide (PDI) and Helical PDI dimers. <i>Chemistry - A European Journal</i> , <b>2019</b> , 25, 12137-12144	4.8	10
55	Achieving Long-Lived Triplet States in Intramolecular SF Films through Molecular Engineering. <i>CheM</i> , <b>2019</b> , 5, 2405-2417	16.2	15
54	Hole Transfer Originating from Weakly Bound Exciton Dissociation in Acceptor-Donor-Acceptor Nonfullerene Organic Solar Cells. <i>Journal of Physical Chemistry Letters</i> , <b>2019</b> , 10, 7100-7106	6.4	26
53	Breaking Down Resonance: Nonlinear Transport and the Breakdown of Coherent Tunneling Models in Single Molecule Junctions. <i>Nano Letters</i> , <b>2019</b> , 19, 2555-2561	11.5	25
52	New insights into the design of conjugated polymers for intramolecular singlet fission. <i>Nature Communications</i> , <b>2018</b> , 9, 2999	17.4	61
51	Novel Star-Shaped Helical Perylene Diimide Electron Acceptors for Efficient Additive-Free Nonfullerene Organic Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 27894-27901	9.5	44
50	A helical perylene diimide-based acceptor for non-fullerene organic solar cells: synthesis, morphology and exciton dynamics. <i>Royal Society Open Science</i> , <b>2018</b> , 5, 172041	3.3	3
49	Cycloparaphenylenes (CPPs): An Overview of Synthesis, Properties, and Potential Applications. <i>Asian Journal of Organic Chemistry</i> , <b>2018</b> , 7, 2161-2181	3	55
48	Restrained light-soaking and reduced hysteresis in perovskite solar cells employing a helical perylene diimide interfacial layer. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 10379-10387	13	33
47	Battery-Supercapacitor Hybrid Devices: Recent Progress and Future Prospects. <i>Advanced Science</i> , <b>2017</b> , 4, 1600539	13.6	912
46	Dialectics of nature: Temporal and spatial regulation in material sciences. <i>Nano Research</i> , <b>2017</b> , 10, 1115-1124	3	3
45	Influence of Nanostructure on the Exciton Dynamics of Multichromophore Donor-Acceptor Block Copolymers. <i>ACS Nano</i> , <b>2017</b> , 11, 4593-4598	16.7	14
44	Singlet Fission: Progress and Prospects in Solar Cells. <i>Advanced Materials</i> , <b>2017</b> , 29, 1601652	24	116
43	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> , <b>2017</b> , 5, 24416-24424	13	35
42	The Role of Through-Space Interactions in Modulating Constructive and Destructive Interference Effects in Benzene. <i>Nano Letters</i> , <b>2017</b> , 17, 4436-4442	11.5	32
41	Mapping the Transmission Functions of Single-Molecule Junctions. <i>Nano Letters</i> , <b>2016</b> , 16, 3949-54	11.5	43

40	Synthesis, crystal structure and electronic properties of [3.3]metaparacyclophane-bridged bimetallic ruthenium alkynyl complexes. <i>Journal of Organometallic Chemistry</i> , <b>2016</b> , 803, 111-118	2.3	6
39	Quantitative Intramolecular Singlet Fission in Bipentacenes. <i>Journal of the American Chemical Society</i> , <b>2015</b> , 137, 8965-72	16.4	262
38	Selective and Gram-Scale Synthesis of [6]Cycloparaphenylene. <i>Synlett</i> , <b>2015</b> , 26, 1615-1619	2.2	57
37	Synthesis and characterization of binuclear ruthenium vinyl complexes: effect of transannular substituents on their optoelectronic properties. <i>Transition Metal Chemistry</i> , <b>2015</b> , 40, 799-806	2.1	
36	Single-molecule diodes with high rectification ratios through environmental control. <i>Nature Nanotechnology</i> , <b>2015</b> , 10, 522-7	28.7	278
35	Fast Singlet Exciton Decay in Push-Pull Molecules Containing Oxidized Thiophenes. <i>Journal of Physical Chemistry B</i> , <b>2015</b> , 119, 7644-50	3.4	31
34	Molecular length dictates the nature of charge carriers in single-molecule junctions of oxidized oligothiophenes. <i>Nature Chemistry</i> , <b>2015</b> , 7, 209-14	17.6	119
33	A design strategy for intramolecular singlet fission mediated by charge-transfer states in donor-acceptor organic materials. <i>Nature Materials</i> , <b>2015</b> , 14, 426-33	27	243
32	Bandgap engineering through controlled oxidation of polythiophenes. <i>Angewandte Chemie - International Edition</i> , <b>2014</b> , 53, 1832-6	16.4	42
31	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> , <b>2014</b> , 53, 7033-7	16.4	70
30	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> , <b>2014</b> , 126, 7153-7157	3.6	22
29	Quantum Dynamics Simulations Reveal Vibronic Effects on the Optical Properties of [n]Cycloparaphenylenes. <i>Journal of Chemical Theory and Computation</i> , <b>2014</b> , 10, 4025-36	6.4	25
28	Breakdown of interference rules in azulene, a nonalternant hydrocarbon. <i>Nano Letters</i> , <b>2014</b> , 14, 2941-5	11.5	99
27	Bandgap Engineering through Controlled Oxidation of Polythiophenes. <i>Angewandte Chemie</i> , <b>2014</b> , 126, 1863-1867	3.6	18
26	Innenrücktitelbild: Bandgap Engineering through Controlled Oxidation of Polythiophenes (Angew. Chem. 7/2014). <i>Angewandte Chemie</i> , <b>2014</b> , 126, 2033-2033	3.6	
25	Synthesis and Characterization of Dithia[3.3]metaparacyclophane-Bridged Dimetallic Ruthenium Acetylide Complexes. <i>European Journal of Inorganic Chemistry</i> , <b>2014</b> , 2014, 247-255	2.3	10
24	Bridge-localized HOMO-binding character of divinylanthracene-bridged dinuclear ruthenium carbonyl complexes: spectroscopic, spectroelectrochemical, and computational studies. <i>Chemistry - an Asian Journal</i> , <b>2014</b> , 9, 1152-60	4.5	28
23	Tightening of the nanobelt upon multielectron reduction. <i>Angewandte Chemie - International Edition</i> , <b>2013</b> , 52, 5033-6	16.4	67

22	Experimental and theoretical studies of charge delocalization in biruthenium-alkynyl complexes bridged by thiophenes. <i>Chemistry - an Asian Journal</i> , <b>2013</b> , 8, 2023-32	4.5	28
21	Dithia[3.3]paracyclophane-bridged bimetallic ruthenium acetylide complexes: synthesis, structures and influence of transannular $\pi$ -interactions on their electronic properties. <i>Dalton Transactions</i> , <b>2013</b> , 42, 14212-22	4.3	13
20	Dithia[3.3]paracyclophane-based monometal ruthenium acetylide complexes: synthesis, characterization and substituent effects. <i>Dalton Transactions</i> , <b>2013</b> , 42, 7177-89	4.3	15
19	Tightening of the Nanobelt upon Multielectron Reduction. <i>Angewandte Chemie</i> , <b>2013</b> , 125, 5137-5140	3.6	21
18	Synthesis, characterization, and crystal structure of [6]cycloparaphenylene. <i>Angewandte Chemie - International Edition</i> , <b>2012</b> , 51, 2474-6	16.4	246
17	Synthesis, characterization, and computational studies of cycloparaphenylene dimers. <i>Journal of the American Chemical Society</i> , <b>2012</b> , 134, 19709-15	16.4	97
16	Synthesis and Characterization of Dithia[3.3]paracyclophane-Bridged Binuclear Ruthenium Vinyl and Alkynyl Complexes. <i>Organometallics</i> , <b>2012</b> , 31, 5321-5333	3.8	36
15	Gram-scale synthesis and crystal structures of [8]- and [10]CPP, and the solid-state structure of C60@[10]CPP. <i>Chemical Science</i> , <b>2012</b> , 3, 3018	9.4	250
14	Synthesis, Characterization, and Crystal Structure of [6]Cycloparaphenylene. <i>Angewandte Chemie</i> , <b>2012</b> , 124, 2524-2526	3.6	73
13	An experimental study on the effect of substituents on aromatic-aromatic interactions in dithia[3,3]-metaparacyclophanes. <i>Chemistry - A European Journal</i> , <b>2012</b> , 18, 3611-20	4.8	26
12	Substituted diethynyldithia[3.3]paracyclophanes: synthetically more accessible new building blocks for molecular scaffolding. <i>New Journal of Chemistry</i> , <b>2011</b> , 35, 97-102	3.6	7
11	Spectroscopic and Computational Studies of the Ligand Redox Non-Innocence in Mono- and Binuclear Ruthenium Vinyl Complexes. <i>Organometallics</i> , <b>2011</b> , 30, 1852-1858	3.8	57
10	Synthesis, characterization, and properties of conjugated binuclear bis-terpyridyl ruthenium complexes. <i>Transition Metal Chemistry</i> , <b>2011</b> , 36, 611-615	2.1	3
9	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> , <b>2011</b> , 90, 290-296	4.6	35
8	Synthesis, characterization, and properties of binuclear ruthenium complexes with dendritic side chains on their bridges. <i>Inorganica Chimica Acta</i> , <b>2011</b> , 370, 286-291	2.7	2
7	Synthesis, Characterization, and Properties of Anthracene-Bridged Bimetallic Ruthenium Vinyl Complexes [RuCl(CO)(PMe <sub>3</sub> ) <sub>3</sub> ] <sub>2</sub> (ECH=CH-anthracene-CH=CH). <i>Organometallics</i> , <b>2011</b> , 30, 5763-5770	3.8	37
6	Synthesis of novel diarylethene compounds containing two imidazole bridge units and tuning of their optical properties. <i>Dyes and Pigments</i> , <b>2011</b> , 90, 245-252	4.6	30
5	Bimetallic Ruthenium Complexes: Synthesis, Characterization, and the Effect of Appending Long Carbon Chains to Their Bridges. <i>Organometallics</i> , <b>2010</b> , 29, 1150-1156	3.8	21

4	A novel conjugated [2]rotaxane with an Ru-containing axle constructed from a carboxy-functionalized bis-terpyridyl ruthenium complex and $\beta$ -cyclodextrin: Synthesis, characterization, and properties. <i>Journal of Organometallic Chemistry</i> , <b>2010</b> , 695, 323-326	2.3	11
3	Synthesis and characterization of (CHCH) <sub>n</sub> -bridged (n=1, 2, 3) heterobimetallic and trimetallic ferrocene-ruthenium complexes. <i>Journal of Organometallic Chemistry</i> , <b>2010</b> , 695, 809-815	2.3	12
2	Reactions of [Cp*Ru(H <sub>2</sub> O)(NBD)] <sup>+</sup> with diynes. <i>Transition Metal Chemistry</i> , <b>2009</b> , 34, 389-393	2.1	1
1	Synthesis and Characterization of Conjugated Diallenes and Their Binuclear Ruthenium $\beta$ -Allyl Complexes. <i>Organometallics</i> , <b>2009</b> , 28, 2701-2706	3.8	14