

# Yun-xiang Xu

## List of Publications by Year in descending order

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70  
papers

3,274  
citations

159585

30  
h-index

144013

57  
g-index

72  
all docs

72  
docs citations

72  
times ranked

4851  
citing authors

#	ARTICLE	IF	CITATIONS
1	Improved Charge Transport and Absorption Coefficient in Indacenodithieno[3,2-b]thiophene-based Ladder-Type Polymer Leading to Highly Efficient Polymer Solar Cells. <i>Advanced Materials</i> , 2012, 24, 6356-6361.	21.0	343
2	Interface design for high-efficiency non-fullerene polymer solar cells. <i>Energy and Environmental Science</i> , 2017, 10, 1784-1791.	30.8	187
3	Multilayered Perovskite Materials Based on Polymeric-Ammonium Cations for Stable Large-Area Solar Cell. <i>Chemistry of Materials</i> , 2016, 28, 3131-3138.	6.7	174
4	Non-halogenated solvents for environmentally friendly processing of high-performance bulk-heterojunction polymer solar cells. <i>Energy and Environmental Science</i> , 2013, 6, 3241.	30.8	168
5	Vesicles and Organogels from Foldamers: A Solvent-Modulated Self-Assembling Process. <i>Journal of the American Chemical Society</i> , 2008, 130, 6936-6937.	13.7	161
6	Molecular Weight Effect on the Absorption, Charge Carrier Mobility, and Photovoltaic Performance of an Indacenodiselenophene-Based Ladder-Type Polymer. <i>Chemistry of Materials</i> , 2013, 25, 3188-3195.	6.7	155
7	Highly Efficient Inverted Organic Solar Cells Through Material and Interfacial Engineering of Indacenodithieno[3,2-b]thiophene-Based Polymers and Devices. <i>Advanced Functional Materials</i> , 2014, 24, 1465-1473.	14.9	132
8	A General Route to Enhance Polymer Solar Cell Performance using Plasmonic Nanoprisms. <i>Advanced Energy Materials</i> , 2014, 4, 1400206.	19.5	118
9	Redox-Responsive, Core Cross-Linked Polyester Micelles. <i>ACS Macro Letters</i> , 2013, 2, 40-44.	4.8	116
10	Eleven-Membered Fused Ring Low Band Gap Polymer with Enhanced Charge Carrier Mobility and Photovoltaic Performance. <i>Advanced Functional Materials</i> , 2014, 24, 3631-3638.	14.9	99
11	Side-Chain Effect on Cyclopentadithiophene/Fluorobenzothiadiazole-Based Low Band Gap Polymers and Their Applications for Polymer Solar Cells. <i>Macromolecules</i> , 2013, 46, 5497-5503.	4.8	94
12	Plasmonic Metal Nanoparticles with Core-Shell Structure for High-Performance Organic and Perovskite Solar Cells. <i>ACS Nano</i> , 2019, 13, 5397-5409.	14.6	93
13	A general fabrication procedure for efficient and stable planar perovskite solar cells: Morphological and interfacial control by in-situ-generated layered perovskite. <i>Nano Energy</i> , 2015, 18, 165-175.	16.0	92
14	Microcavity-Enhanced Light Trapping for Highly Efficient Organic Parallel Tandem Solar Cells. <i>Advanced Materials</i> , 2014, 26, 6778-6784.	21.0	89
15	Drug-Initiated Ring-Opening Polymerization of <i>l</i> -Proline-Carboxyanhydrides for the Preparation of Anticancer Drug-Poly( <i>l</i> -proline) Nanoconjugates. <i>Biomacromolecules</i> , 2013, 14, 920-929.	5.4	70
16	Facile Functionalization of Polyesters through Thiol-yne Chemistry for the Design of Degradable, Cell-Penetrating and Gene Delivery Dual-Functional Agents. <i>Biomacromolecules</i> , 2012, 13, 3456-3462.	5.4	68
17	Strong Photocurrent Enhancements in Highly Efficient Flexible Organic Solar Cells by Adopting a Microcavity Configuration. <i>Advanced Materials</i> , 2014, 26, 3349-3354.	21.0	63
18	Hydrogen-Bonding-Mediated Anthranilamide Homoduplexes. Increasing Stability through Preorganization and Iterative Arrangement of a Simple Amide Binding Site. <i>Journal of the American Chemical Society</i> , 2006, 128, 12307-12313.	13.7	62

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19	Enhanced Performance of Organic Solar Cells with Increased End Group Dipole Moment in Indacenodithieno[3,2-b]thiophene-Based Molecules. <i>Advanced Functional Materials</i> , 2015, 25, 4889-4897.	14.9	61
20	Fullerene-Anchored Core-Shell ZnO Nanoparticles for Efficient and Stable Dual-Sensitized Perovskite Solar Cells. <i>Joule</i> , 2019, 3, 417-431.	24.0	61
21	Synthesis of Water-Soluble Poly( $\beta$ -hydroxy acids) from Living Ring-Opening Polymerization of $\alpha$ -Benzyl-L-serine Carboxyanhydrides. <i>ACS Macro Letters</i> , 2012, 1, 441-444.	4.8	57
22	Controlled Ring-Opening Polymerization of $\alpha$ -Carboxyanhydrides Using a Diiminate Zinc Catalyst. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 13010-13014.	13.8	56
23	Folding of Aromatic Amide-Based Oligomers Induced by Benzene-1,3,5-tricarboxylate Anion in DMSO. <i>Journal of Organic Chemistry</i> , 2009, 74, 7267-7273.	3.2	55
24	Self-Assembly of Vesicles from Amphiphilic Aromatic Amide-Based Oligomers. <i>Langmuir</i> , 2009, 25, 2684-2688.	3.5	48
25	Thermally stable high performance non-fullerene polymer solar cells with low energy loss by using ladder-type small molecule acceptors. <i>Organic Electronics</i> , 2017, 44, 217-224.	2.6	45
26	Towards a Supertough Thermoplastic Polyisoprene Elastomer Based on a Biomimic Strategy. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 15836-15840.	13.8	45
27	Enhanced Light Harvesting by Integrating Synergetic Microcavity and Plasmonic Effects for High-Performance ITO-Free Flexible Polymer Solar Cells. <i>Advanced Functional Materials</i> , 2015, 25, 567-574.	14.9	44
28	Indacenodithieno[3,2-b]thiophene-based broad bandgap polymers for high efficiency polymer solar cells. <i>Polymer Chemistry</i> , 2013, 4, 5220.	3.9	42
29	Efficient device engineering for inverted non-fullerene organic solar cells with low energy loss. <i>Journal of Materials Chemistry C</i> , 2018, 6, 4457-4463.	5.5	41
30	Interfacial engineering of front-contact with finely tuned polymer interlayers for high-performance large-area flexible perovskite solar cells. <i>Nano Energy</i> , 2019, 62, 734-744.	16.0	36
31	Ladder-Type Dye with Large Transition Dipole Moment for Solvatochromism and Microphase Visualization. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 29814-29820.	8.0	30
32	Bioorthogonal oxime ligation mediated in vivo cancer targeting. <i>Chemical Science</i> , 2015, 6, 2182-2186.	7.4	28
33	A Simple and Universal Method to Increase Light Absorption in Ternary Blend Polymer Solar Cells Based on Ladder-Type Polymers. <i>Advanced Optical Materials</i> , 2015, 3, 321-327.	7.3	27
34	Nano-bio hybrids of plasmonic metals/photosynthetic proteins for broad-band light absorption enhancement in organic solar cells. <i>Journal of Materials Chemistry A</i> , 2016, 4, 13400-13406.	10.3	24
35	Efficient Nonfullerene Polymer Solar Cells Enabled by Small-Molecular Acceptors with a Decreased Fused-Ring Core. <i>Small Methods</i> , 2018, 2, 1700373.	8.6	22
36	Hydrogen bonding-driven highly stable homoduplexes formed by benzene/naphthalene amide oligomers. <i>Organic Chemistry Frontiers</i> , 2014, 1, 73-78.	4.5	21

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37	Complexation of hydrogen bonding-driven preorganized di- and hexacationic bisporphyrin receptors for C <sub>60</sub> in aqueous and DMSO media. <i>Tetrahedron Letters</i> , 2007, 48, 7327-7331.	1.4	16
38	Manipulation of optical field distribution in ITO-free micro-cavity polymer tandem solar cells via the out-of-cell capping layer for high photovoltaic performance. <i>Journal of Materials Chemistry A</i> , 2016, 4, 961-968.	10.3	16
39	Hydrogen bonding-mediated self-assembly of anthranilamide-based homodimers through preorganization of the amido and ureido binding sites. <i>Tetrahedron</i> , 2006, 62, 11933-11941.	1.9	14
40	Controllable self-assemblies of micro/nano-tubes and vesicles from arylamides and their applications as templates to fabricate Pt micro/nano-tubes and hollow Pt nanospheres. <i>Soft Matter</i> , 2010, 6, 1246.	2.7	13
41	The critical role of additives in binary halogen-free solvent systems for the general processing of highly efficient organic solar cells. <i>RSC Advances</i> , 2015, 5, 93689-93696.	3.6	13
42	Branching function of terminal phosphate groups of polyisoprene chain. <i>Polymer</i> , 2019, 174, 18-24.	3.8	13
43	End-chain effects of non-fullerene acceptors on polymer solar cells. <i>Organic Electronics</i> , 2019, 64, 1-6.	2.6	13
44	Organic nanotubes assembled from isophthalamides and their application as templates to fabricate Pt nanotubes. <i>Chemical Communications</i> , 2009, , 4212.	4.1	11
45	Modulation of charge transport through single-molecule bilactam junctions by tuning hydrogen bonds. <i>Chemical Communications</i> , 2021, 57, 1935-1938.	4.1	11
46	Ductile composites with strain hardening behavior constructing highly sensitive electronic sensor. <i>Composites Communications</i> , 2019, 15, 20-24.	6.3	10
47	Non-Fullerene Acceptors with an Optical Response over 1000 nm toward Efficient Organic Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 51279-51288.	8.0	10
48	Oligo(quinoxalineethynylene)s: synthesis, properties, and Ag <sup>+</sup> -mediated complanation. <i>Chemical Communications</i> , 2011, 47, 1524-1526.	4.1	9
49	Towards a Supertough Thermoplastic Polyisoprene Elastomer Based on a Biomimic Strategy. <i>Angewandte Chemie</i> , 2018, 130, 16062-16066.	2.0	8
50	Complexation of two non-fully hydrogen bonded aromatic hydrazide heptamers toward n-octyl- $\beta$ -L-glucopyranoside in chloroform. <i>Science in China Series B: Chemistry</i> , 2009, 52, 489-496.	0.8	7
51	Photovoltaic performance of ladder-type indacenodithieno[3,2-b]thiophene-based polymers with alkoxyphenyl side chains. <i>RSC Advances</i> , 2015, 5, 26680-26685.	3.6	7
52	Synergistic Effects of Selenophene and Extended Ladder-type Donor Units for Efficient Polymer Solar Cells. <i>Macromolecular Rapid Communications</i> , 2018, 39, 1700483.	3.9	7
53	The Influence of Oxygen Atoms on Conformation and $\pi$ - $\pi$ Stacking of Ladder-type Donor-based Polymers and Their Photovoltaic Properties. <i>Macromolecular Rapid Communications</i> , 2017, 38, 1700156.	3.9	6
54	Terminally and randomly functionalized polyisoprene lead to distinct aggregation behaviors of polar groups. <i>Polymer</i> , 2019, 178, 121629.	3.8	6

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55	Distinct luminescent properties between thiophene-S-oxide and Thiophene-S, S-dioxides incorporated ladder-type molecules. <i>Dyes and Pigments</i> , 2020, 175, 108147.	3.7	6
56	Investigating the crystalline nature, charge transport properties and photovoltaic performances of ladder-type donor based small molecules. <i>RSC Advances</i> , 2015, 5, 80677-80681.	3.6	5
57	Synthesis of a Thiophene Analogue of Isoindigo by C-H Activation/Oxidative Cyclization and Application of Its Copolymeric Materials to Organic Transistors. <i>European Journal of Organic Chemistry</i> , 2018, 2018, 1218-1223.	2.4	5
58	Stereoisomerism of ladder-type acceptor molecules and its effect on photovoltaic properties. <i>Dyes and Pigments</i> , 2019, 165, 354-360.	3.7	5
59	Oligopeptide binding guided by spacer length lead to remarkably strong and stable network of polyisoprene elastomers. <i>Polymer</i> , 2021, 233, 124185.	3.8	5
60	Toughening and enhancing thermostability of vitrimer rubber via adding heterocyclic aramid. <i>Composites Communications</i> , 2021, 28, 100934.	6.3	5
61	Probe the terminal interactions and their synergistic effects on polyisoprene properties by mimicking the structure of natural rubber. <i>Polymer</i> , 2021, 237, 124362.	3.8	5
62	A distorted lactam unit with intramolecular hydrogen bonds as the electron donor of polymer solar cells. <i>Journal of Materials Chemistry C</i> , 2019, 7, 12290-12296.	5.5	4
63	Synthesis and molecular properties of isomeric thienoisindigo. <i>Journal of Materials Chemistry C</i> , 2021, 9, 13218-13225.	5.5	4
64	Unsymmetric Side Chains of Indacenodithiophene Copolymers Lead to Improved Packing and Device Performance. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2020, 38, 342-348.	3.8	3
65	Bioinspired strategy to tune viscoelastic response of thermoplastic polyisoprene by retarding the dissociation of hydrogen bonding. <i>Polymer</i> , 2021, 212, 123272.	3.8	3
66	The Effect of Branching Structure on the Properties of Entangled or Non-covalently Crosslinked Polyisoprene. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2021, 39, 113-121.	3.8	2
67	The Relationship between Pendant Phosphate Groups and Mechanical Properties of Polyisoprene Rubber. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2021, 39, 465-473.	3.8	2
68	Supramolecular aggregation for manipulating molecular packing by endgroups leading to mechanochromic fluorescence. <i>Dyes and Pigments</i> , 2021, 195, 109668.	3.7	2
69	Influence of Oligopeptide Length and Distribution on Polyisoprene Properties. <i>Polymers</i> , 2021, 13, 4408.	4.5	1
70	Towards a Supertough Thermoplastic Polyisoprene Elastomer Based on a Biomimic Strategy ( <i>Angew. Chem.</i> 48/2018). <i>Angewandte Chemie</i> , 2018, 130, 16136-16136.	2.0	0