

# Guilong Cai

## List of Publications by Year in descending order

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37  
papers

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citations

516215  
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docs citations

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times ranked

1100  
citing authors

#	ARTICLE	IF	CITATIONS
1	Selenium Heterocyclic Electron Acceptor with Small Urbach Energy for As-Cast High-Performance Organic Solar Cells. <i>Journal of the American Chemical Society</i> , 2020, 142, 18741-18745.	6.6	288
2	Adding a Third Component with Reduced Miscibility and Higher LUMO Level Enables Efficient Ternary Organic Solar Cells. <i>ACS Energy Letters</i> , 2020, 5, 2711-2720.	8.8	188
3	Exploiting Ternary Blends for Improved Photostability in High-Efficiency Organic Solar Cells. <i>ACS Energy Letters</i> , 2020, 5, 1371-1379.	8.8	126
4	An Electron Acceptor Analogue for Lowering Trap Density in Organic Solar Cells. <i>Advanced Materials</i> , 2021, 33, e2008134.	11.1	91
5	High-performance all-polymer solar cells enabled by a novel low bandgap non-fully conjugated polymer acceptor. <i>Science China Chemistry</i> , 2021, 64, 1380-1388.	4.2	51
6	Pushing the Efficiency of High Open-Circuit Voltage Binary Organic Solar Cells by Vertical Morphology Tuning. <i>Advanced Science</i> , 2022, 9, e2200578.	5.6	51
7	Asymmetric Glycolated Substitution for Enhanced Permittivity and Ecocompatibility of High-Performance Photovoltaic Electron Acceptor. <i>Jacs Au</i> , 2021, 1, 1733-1742.	3.6	47
8	Comparison of Linear- and Star-Shaped Fused-Ring Electron Acceptors. , 2019, 1, 367-374.		43
9	High-Performance Mid-Bandgap Fused-Pyrene Electron Acceptor. <i>Chemistry of Materials</i> , 2019, 31, 6484-6490.	3.2	40
10	Simple thiazole-centered oligothiophene donor enables 15.4% efficiency all small molecule organic solar cells. <i>Journal of Materials Chemistry A</i> , 2022, 10, 3009-3017.	5.2	28
11	Fused octacyclic electron acceptor isomers for organic solar cells. <i>Journal of Materials Chemistry A</i> , 2019, 7, 21432-21437.	5.2	26
12	Organic Photovoltaic Catalyst with Extended Exciton Diffusion for High-Performance Solar Hydrogen Evolution. <i>Journal of the American Chemical Society</i> , 2022, 144, 12747-12755.	6.6	26
13	Reducing $V_{OC}$ loss via structure compatible and high $V_{lowest}$ unoccupied molecular orbital nonfullerene acceptors for over 17% efficiency ternary organic photovoltaics. <i>EcoMat</i> , 2020, 2, e12061.	6.8	23
14	Uncovering the out-of-plane nanomorphology of organic photovoltaic bulk heterojunction by GTSAXS. <i>Nature Communications</i> , 2021, 12, 6226.	5.8	23
15	Nonfullerene electron acceptors with electron-deficient units containing cyano groups for organic solar cells. <i>Materials Chemistry Frontiers</i> , 2021, 5, 5549-5572.	3.2	21
16	Structural regulation of thiophene-fused benzotriazole as a $\pi$ -bridge for A-D-A type acceptor:P3HT-based OSCs to achieve high efficiency. <i>Journal of Materials Chemistry A</i> , 2021, 9, 6520-6528.	5.2	21
17	Enhancing Transition Dipole Moments of Heterocyclic Semiconductors via Rational Nitrogen-Substitution for Sensitive Near Infrared Detection. <i>Advanced Materials</i> , 2022, 34, e2201600.	11.1	19
18	Enhancing Open-Circuit Voltage of High-Efficiency Nonfullerene Ternary Solar Cells with a Star-Shaped Acceptor. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 50660-50667.	4.0	16

#	ARTICLE	IF	CITATIONS
19	Size Modulation and Heterovalent Doping Facilitated Hybrid Organic and Perovskite Quantum Dot Bulk Heterojunction Solar Cells. ACS Applied Energy Materials, 2020, 3, 11359-11367.	2.5	14
20	A highly active chiral (S,S)-bis(oxazoline) Pd( $\eta^5$ -alkyl) complex/activator catalytic system for vinyl polymerization of norbornene in air and water. Polymer Chemistry, 2017, 8, 1217-1222.	1.9	13
21	Nickel(0)-Catalyzed Inert C=O Bond Functionalization: Organo Rare-Earth Metal Complex as the Coupling Partner. Organic Letters, 2018, 20, 624-627.	2.4	11
22	Symmetrically Fluorinated Benzo[1,2-b:4,5-b']dithiophene-Cored Donor for High-Performance All-Small-Molecule Organic Solar Cells with Improved Active Layer Morphology and Crystallinity. ACS Applied Materials & Interfaces, 2022, 14, 14532-14540.	4.0	10
23	Effects of $\pi$ -Bridge on Fused-Ring Electron Acceptor Dimers. ACS Applied Polymer Materials, 2021, 3, 23-29.	2.0	9
24	Effects of Side Chains in Third Components on the Performance of Fused-Ring Electron-Acceptor-Based Ternary Organic Solar Cells. Energy & Fuels, 2021, 35, 19055-19060.	2.5	9
25	Revealing the Sole Impact of Acceptor's Molecular Conformation to Energy Loss and Device Performance of Organic Solar Cells through Positional Isomers. Advanced Science, 2022, 9, e2103428.	5.6	9
26	Pd-Catalyzed C(sp <sup>3</sup> )–C(sp <sup>2</sup> ) cross-coupling of Y(CH <sub>2</sub> SiMe <sub>3</sub> ) <sub>3</sub> (THF) <sub>2</sub> with vinyl bromides and triflates. Organic and Biomolecular Chemistry, 2016, 14, 8702-8706.	1.5	8
27	Effects of linking units on fused-ring electron acceptor dimers. Journal of Materials Chemistry A, 2020, 8, 13735-13741.	5.2	8
28	Precise Synthesis of Fused Decacyclic Electron Acceptor Isomers for Organic Solar Cells. Solar Rrl, 2021, 5, 2100163.	3.1	8
29	Supercritical CO <sub>2</sub> ; Fluid Leaching of Uranium from Sandstone Type Ores. Advanced Materials Research, 0, 634-638, 3517-3521.	0.3	7
30	Palladium-catalyzed C(sp <sup>3</sup> )–C(sp <sup>2</sup> ) cross-coupling of homoleptic rare-earth metal trialkyl complexes with aryl bromides: efficient synthesis of functionalized benzyltrimethylsilanes. Chemical Communications, 2016, 52, 5425-5427.	2.2	7
31	Boosting charge and thermal transport – role of insulators in stable and efficient n-type polymer transistors. Journal of Materials Chemistry C, 2021, 9, 12281-12290.	2.7	5
32	$\alpha$ -1,4-specific carbocationic polymerization and copolymerization of 1,3-dienes initiated by (S,S)-bis(oxazolinylphenyl)amine chromium complexes. Journal of Polymer Science Part A, 2017, 55, 1250-1259.	2.5	4
33	Pyrrolo[3,2-b]pyrrole-based fused-ring electron acceptors with strong near-infrared absorption beyond 1000nm. Dyes and Pigments, 2021, 195, 109705.	2.0	4
34	Effect of Different Surfactant on Leaching of Uranium in Sandstone Type Ores with Low Permeability. Advanced Materials Research, 0, 634-638, 3335-3338.	0.3	3
35	Effect of Molecular Symmetry on Fused-Ring Electron Acceptors. Solar Rrl, 2022, 6, 2100797.	3.1	3
36	Effects of Thieno[3,2-b]thiophene Number on Narrow-Bandgap Fused-Ring Electron Acceptors. Chinese Journal of Polymer Science (English Edition), 0, , .	2.0	1

#	ARTICLE	IF	CITATIONS
37	Sustainable Development of Uranium Industry from the Ideas of Ecological Security. Advanced Materials Research, 2012, 524-527, 2935-2939.	0.3	0