Shu-Hui Li

List of Publications by Year
in descending order

32 papers	560 citations	623734 14 h-index	642732 23 g-index
32 all docs	32 docs citations	32 times ranked	671 citing authors

#	Article	IF	Citations
1	Interfacing Pristine C₆₀ onto TiO₂ for Viable Flexibility in Perovskite Solar Cells by a Lowâ€Temperature Allâ€Solution Process. Advanced Energy Materials, 2018, 8, 1800399.	19.5	72
2	Flexible decapyrrylcorannulene hosts. Nature Communications, 2019, 10, 485.	12.8	52
3	Rational synthesis of an atomically precise carboncone under mild conditions. Science Advances, 2019, 5, eaaw0982.	10.3	43
4	Hybrid Fullerene-Based Electron Transport Layers Improving the Thermal Stability of Perovskite Solar Cells. ACS Applied Materials & Interfaces, 2020, 12, 20733-20740.	8.0	39
5	An Unconventional Hydrofullerene C₆₆H₄ with Symmetric Heptagons Retrieved in Low-Pressure Combustion. Journal of the American Chemical Society, 2019, 141, 6651-6657.	13.7	35
6	Base-Promoted Consecutive Enolate Addition Reaction of [60]Fullerene with Ketones. Organic Letters, 2015, 17, 5192-5195.	4.6	23
7	Star-like hexakis[di(ethoxycarbonyl)methano]-C60 with higher electron mobility: An unexpected electron extractor interfaced in photovoltaic perovskites. Nano Energy, 2020, 74, 104859.	16.0	20
8	Multifunctional Molecular Design of a New Fulleropyrrolidine Electron Transport Material Family Engenders High Performance of Perovskite Solar Cells. Advanced Functional Materials, 2021, 31, 2107695.	14.9	17
9	Tunable photocatalytic oxysulfonylation and chlorosulfonylation of Î±-CF₃ alkenes with sulfonyl chlorides. Organic Chemistry Frontiers, 2022, 9, 709-714.	4.5	17
10	Targeted Molecular Design of Functionalized Fullerenes for Highâ€Performance and Stable Perovskite Solar Cells. Small Structures, 2022, 3, .	12.0	17
11	Reactions of C₇₀^{2â€“} with Organic Halides Revisited: Unusual Magnetic Equivalence for the Diastereotopic Methylene Protons in 2,5-(PhCH₂)₂C₇₀. Journal of Organic Chemistry, 2013, 78, 7208-7215.	3.2	16
12	Hydroxide-Initiated Conversion of Aromatic Nitriles to Imidazolines: Fullerenes vs TCNE. Organic Letters, 2013, 15, 4646-4649.	4.6	16
13	Controlled Synthesis of C₇₀ Equatorial Multiadducts with Mixed Addends from an Equatorial Diadduct: Evidence for an Electrophilic Carbanion. Organic Letters, 2018, 20, 2328-2332.	4.6	16
14	Mixed Fullerene Electron Transport Layers with Fluorocarbon Chains Assembling on the Surface: A Moisture-Resistant Coverage for Perovskite Solar Cells. ACS Applied Materials & Interfaces, 2020, 12, 35081-35087.	8.0	16
15	Tailorable PC₇₁BM Isomers: Using the Most Prevalent Electron Acceptor to Obtain Highâ€Performance Polymer Solar Cells. Chemistry - A European Journal, 2016, 22, 18709-18713.	3.3	15
16	Regiocontrolled Electrosynthesis of [60]Fullerene Bisadducts: Photovoltaic Performance and Crystal Structures of C₆₀ <i>o</i>-Quinodimethane Bisadducts. Journal of Organic Chemistry, 2017, 82, 8676-8685.	3.2	15
17	Photovoltaic performance and stability of fullerene/cerium oxide double electron transport layer superior to single one in p-i-n perovskite solar cells. Journal of Power Sources, 2018, 389, 13-19.	7.8	15
18	Corannulene-based hole-transporting material for efficient and stable perovskite solar cells. Cell Reports Physical Science, 2021, 2, 100662.	5.6	13

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19	Oxazolination of 1,4-(PhCH₂)₂C₆₀: Toward a Better Understanding of Multiadditions of Heteroaddends. Organic Letters, 2012, 14, 3482-3485.	4.6	12
20	Reductive Activation of C₇₀ Equatorial Carbons and Structurally Characterized C₇₀ Î´-Adduct with Closed [5,6]-Ring Fusion. Journal of Organic Chemistry, 2017, 82, 9253-9257.	3.2	12
21	Approach to High Openâ€Circuit Voltage in Organic Solar Cells Utilizing a Structural Change of the Oxazolinoâ€C₇₀ Derivative. Chemistry - A European Journal, 2015, 21, 1894-1899.	3.3	11
22	Vis-Near-IR Spectroscopic and Time-Dependent DFT Study of Reduced Singly Bonded C₆₀ Species. Journal of Physical Chemistry A, 2015, 119, 9534-9540.	2.5	10
23	Oxazoline and Imidazoline Functionalization of a C₆₀ Dimer via the Reaction of C₆₀HBn and Aromatic Nitriles with a Bifunctional Hydroxide. Journal of Organic Chemistry, 2014, 79, 197-203.	3.2	9
24	Multifunctionalization of C₇₀ at the two polar regions with a high regioselectivity via oxazolination and benzylation reactions. Chemical Communications, 2016, 52, 5710-5713.	4.1	9
25	Mechanochemical Synthesis of 2â€Arylquinoxalines and 3â€Arylquinoxalinâ€2(1<i>H</i>)â€ones via Aryldiazonium Salts. Advanced Synthesis and Catalysis, 2022, 364, 1080-1084.	4.3	9
26	Reductive Benzylation of Singly Bonded 1,2,4,15-C₆₀ Dimers with an Oxazoline or Imidazoline Heterocycle: Unexpected Formation of 1,2,3,16-C₆₀ Adducts and Insights into the Reactivity of Singly Bonded C₆₀ Dimers. Journal of Organic Chemistry, 2015, 80, 3566-3571.	3.2	8
27	Crystallographic Understanding of Photoelectric Properties for C60 Derivatives Applicable as Electron Transporting Materials in Perovskite Solar Cells. Chemical Research in Chinese Universities, 2022, 38, 75-81.	2.6	8
28	Biomass-derived O, N-codoped hierarchically porous carbon prepared by black fungus and Hericium erinaceus for high performance supercapacitor. RSC Advances, 2021, 11, 27860-27867.	3.6	7
29	General One-step Synthesis of Symmetrical or Unsymmetrical 1,4-Di(organo)fullerenes from Organo(hydro)fullerenes through Direct Oxidative Arylation. Journal of Organic Chemistry, 2019, 84, 12259-12267.	3.2	3
30	Tailoring Functional Terminals on Solution-Processable Fullerene Electron Transporting Materials for High Performance Perovskite Solar Cells. Nanomaterials, 2022, 12, 1046.	4.1	3
31	Regioisomer-specific electron affinities and electronic structures of C70para-adducts at polar and equatorial positions with (bromo)benzyl radicals: photoelectron spectroscopy and theoretical study. Physical Chemistry Chemical Physics, 2016, 18, 18683-18686.	2.8	1
32	Regioisomeric Î±-[70]fullerene-fused lactones: Synthesis, characterization and solubility difference. Tetrahedron Letters, 2020, 61, 152607.	1.4	1