Wei-Shi Li

List of Publications by Year
in descending order

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81	2,261	257450 24	233421 45
papers	citations	h-index	g-index

83	83	83	3385
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Dendrimer Porphyrins and Phthalocyanines. Chemical Reviews, 2009, 109, 6047-6076.	47.7	293
2	Amphiphilic Molecular Design as a Rational Strategy for Tailoring Bicontinuous Electron Donor and Acceptor Arrays: Photoconductive Liquid Crystalline Oligothiopheneâ^'C‹sub›60‹/sub› Dyads. Journal of the American Chemical Society, 2008, 130, 8886-8887.	13.7	185
3	Photosensitized Hydrogen Evolution from Water Using Conjugated Polymers Wrapped in Dendrimeric Electrolytes. Journal of the American Chemical Society, 2004, 126, 12084-12089.	13.7	129
4	Fluorinated graphene: facile solution preparation and tailorable properties by fluorine-content tuning. Journal of Materials Chemistry A, 2014, 2, 8782-8789.	10.3	121
5	Construction of Segregated Arrays of Multiple Donor and Acceptor Units Using a Dendritic Scaffold:Â Remarkable Dendrimer Effects on Photoinduced Charge Separation. Journal of the American Chemical Society, 2006, 128, 10527-10532.	13.7	112
6	Cooperativity in Chiroptical Sensing with Dendritic Zinc Porphyrins. Journal of the American Chemical Society, 2005, 127, 7700-7702.	13.7	89
7	Photoluminescence Properties of Discrete Conjugated Wires Wrapped within Dendrimeric Envelopes:â€œDendrimer Effectsâ€•onï€-Electronic Conjugation. Angewandte Chemie - International Edition, 2004, 43, 2943-2947.	13.8	68
8	Diketopyrrolopyrrole-Based Donorâ€“Acceptor Conjugated Microporous Polymers for Visible-Light-Driven Photocatalytic Hydrogen Production from Water. Macromolecules, 2020, 53, 2454-2463.	4.8	59
9	Relationship between Incoherent Excitation Energy Migration Processes and Molecular Structures in Zinc(II) Porphyrin Dendrimers. Chemistry - A European Journal, 2006, 12, 7576-7584.	3.3	58
10	A Family of Donorâ€“Acceptor Photovoltaic Polymers with Fused 4,7-Dithienyl-2,1,3-benzothiadiazole Units: Effect of Structural Fusion and Side Chains. Macromolecules, 2013, 46, 7920-7931.	4.8	58
11	Shape-controllable and versatile synthesis of copper nanocrystals with amino acids as capping agents. Nanoscale, 2015, 7, 8811-8818.	5.6	51
12	Use of Sideâ€Chain Incompatibility for Tailoring Longâ€Range p/n Heterojunctions: Photoconductive Nanofibers Formed by Selfâ€Assembly of an Amphiphilic Donorâ€“Acceptor Dyad Consisting of Oligothiophene and Perylenediimide. Chemistry - an Asian Journal, 2010, 5, 1566-1572.	3.3	49
13	Enhanced Photocatalytic Performance of Donorâ€“Acceptor-Type Polymers Based on a Thiophene-Contained Polycyclic Aromatic Unit. Macromolecules, 2021, 54, 2661-2666.	4.8	48
14	1,3,5-Triazine and dibenzo[‹i›b‹/i›,‹i›d‹/i›]thiophene sulfone based conjugated porous polymers for highly efficient photocatalytic hydrogen evolution. Chemical Communications, 2020, 56, 1601-1604.	4.1	43
15	Grapheneâ€Indanthrone Donorâ€“ï€â€“Acceptor Heterojunctions for Highâ€Performance Flexible Supercapacitors. Advanced Energy Materials, 2020, 10, 2000181.	19.5	43
16	Side-chain-extended conjugation: a strategy for improving the photocatalytic hydrogen production performance of a linear conjugated polymer. Journal of Materials Chemistry A, 2021, 9, 8782-8791.	10.3	37
17	High-Performance Flexible Asymmetric Supercapacitor Paired with Indanthrone@Graphene Heterojunctions and MXene Electrodes. ACS Applied Materials & Interfaces, 2021, 13, 41537-41544.	8.0	36
18	Acceptorâ€“acceptor conjugated copolymers based on perylenediimide and benzothiadiazole for allâ€polymer solar cells. Journal of Polymer Science Part A, 2014, 52, 1200-1215.	2.3	34

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19	Influence of moiety sequence on the performance of small molecular photovoltaic materials. Journal of Materials Chemistry A, 2014, 2, 15396-15405.	10.3	33
20	Control of Molecular Structures and Photophysical Properties of Zinc(II) Porphyrin Dendrimers Using Bidentate Guests: Utilization of Flexible Dendrimer Structures as a Controllable Mold. Journal of Physical Chemistry A, 2008, 112, 6869-6876.	2.5	29
21	In situtunable pillaring of compact and high-density graphite fluoride with pseudocapacitive diamines for supercapacitors with combined predominance in gravimetric and volumetric performances. Journal of Materials Chemistry A, 2019, 7, 3353-3365.	10.3	28
22	Activity and mechanism of rare earth solid superacid for initiating ring-opening polymerization of chloromethyl thiirane. European Polymer Journal, 2001, 37, 1185-1190.	5.4	27
23	Solution-processable, single-layer, blue organic light-emitting diodes employing dual emitting cores of hybridized local and charge-transfer units. Dyes and Pigments, 2016, 132, 94-102.	3.7	27
24	Improving the Fill Factor of Perovskite Solar Cells by Employing an Amine-tethered Diketopyrrolopyrrole-Based Polymer as the Dopant-free Hole Transport Layer. ACS Applied Energy Materials, 2020, 3, 9600-9609.	5.1	26
25	Construction of a long range p/n heterojunction with a pair of nanometre-wide continuous D/A phases. Nanoscale, 2011, 3, 3447.	5.6	25
26	Efficient perovskite solar cells using trichlorosilanes as perovskite/PCBM interface modifiers. Organic Electronics, 2016, 39, 1-9.	2.6	24
27	High-performance flexible transparent conductive films achieved by cooperation between 1D copper nanowires and 2D graphene materials. Journal of Materials Chemistry C, 2017, 5, 5509-5516.	5.5	23
28	Long-term thermally stable organic solar cells based on cross-linkable donorâ€“acceptor conjugated polymers. Journal of Materials Chemistry A, 2016, 4, 9286-9292.	10.3	22
29	UV-Cross-linkable Donorâ€“Acceptor Polymers Bearing a Photostable Conjugated Backbone for Efficient and Stable Organic Photovoltaics. ACS Applied Materials & Interfaces, 2018, 10, 35430-35440.	8.0	22
30	Dendronized graphenes: remarkable dendrimer size effect on solvent dispersity and bulk electrical conductivity. Journal of Materials Chemistry, 2012, 22, 3082.	6.7	21
31	Copolymerization of butadiene and styrene with neodymium naphthenate based catalyst. European Polymer Journal, 2002, 38, 869-873.	5.4	20
32	Alkylated graphene nanosheets for supercapacitor electrodes: High performance and chain length effect. Carbon, 2015, 94, 114-119.	10.3	19
33	Transfunctionalization of graphite fluoride engineered polyaniline grafting to graphene for Highâ€“Performance flexible supercapacitors. Journal of Colloid and Interface Science, 2021, 597, 289-296.	9.4	19
34	Synthesis and characterization of naphthalene diimide polymers based on donor-acceptor system for polymer solar cells. EXPRESS Polymer Letters, 2013, 7, 842-851.	2.1	18
35	Diketopyrrolopyrrole-based acceptor-acceptor conjugated polymers: The importance of comonomer on their charge transportation nature. Journal of Polymer Science Part A, 2014, 52, 2356-2366.	2.3	18
36	Mutual Composition Transformations Among 2D/3D Organolead Halide Perovskites and Mechanisms Behind. Solar Rrl, 2018, 2, 1800125.	5.8	17

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37	Progress in Polymeric Electron-Donating Materials for Organic Solar Cells. Chinese Journal of Organic Chemistry, 2012, 32, 266.	1.3	17
38	Dendrimer/inorganic nanomaterial composites: Tailoring preparation, properties, functions, and applications of inorganic nanomaterials with dendritic architectures. Science China Chemistry, 2011, 54, 286-301.	8.2	16
39	A new class of organic photovoltaic materials: poly(rod-coil) polymers having alternative conjugated and non-conjugated segments. Chemical Communications, 2014, 50, 7720-7722.	4.1	16
40	Unusual graphite fluoride hydrolysis toward unconventional graphene oxide for high-performance supercapacitors and Li-ion batteries. Chemical Engineering Journal, 2022, 434, 134639.	12.7	16
41	Donorâ€Acceptor Oligomers and Polymers Composed of Benzothiadiazole and 3â€Hexylthiophene: Effect of Chain Length and Regioregularity. Chinese Journal of Chemistry, 2013, 31, 1367-1379.	4.9	15
42	Side chain engineering on a small molecular semiconductor: Balance between solubility and performance by choosing proper positions for alkyl side chains. Organic Electronics, 2018, 61, 56-64.	2.6	15
43	Basicityâ€Engineered Graphite Fluoride Functionalization and Beyond: An Unusual Reaction between Ultraweak Nucleophile and Ultrastrong Cï¿¿F Bonds. Advanced Functional Materials, 2019, 29, 1906076.	14.9	15
44	Diindole[3,2- b :4,5- b â€²]pyrrole as a chromophore containing three successively fused pyrroles: synthesis, optoelectronic properties and Ï€-functionalization. Tetrahedron, 2016, 72, 979-984.	1.9	14
45	Sulfanilic Acid Pending on a Graphene Scaffold: Novel, Efficient Synthesis and Much Enhanced Polymer Solar Cell Efficiency and Stability Using It as a Hole Extraction Layer. ACS Applied Materials & Interfaces, 2018, 10, 24679-24688.	8.0	12
46	Improving the hole transport performance of perovskite solar cells through adjusting the mobility of the as-synthesized conjugated polymer. Journal of Materials Chemistry C, 2021, 9, 3421-3428.	5.5	12
47	Core-expanded naphthalenediimide derivatives as non-fullerene electron transport materials for inverted perovskite solar cells. Organic Electronics, 2018, 61, 113-118.	2.6	10
48	Dithieno[3,2-a:3â€²,2â€²-j][5,6,11,12]chrysene diimides: a versatile electron-deficient building block for polymeric semiconductors. Chemical Communications, 2019, 55, 10234-10237.	4.1	10
49	Ring-opening polymerization of chloromethylthiirane with SO42/TiO2/Nd3 as initiator. Macromolecular Rapid Communications, 1997, 18, 769-773.	3.9	9
50	Novel photovoltaic polymers constructed from alternative donor and acceptor units having one mother structure. Polymer, 2013, 54, 2278-2284.	3.8	9
51	Photovoltaic poly(rod-coil) polymers based on benzodithiophene-centred Aâ€“Dâ€“A type conjugated segments and dicarboxylate-linked alkyl non-conjugated segments. RSC Advances, 2016, 6, 23300-23309.	3.6	9
52	Tuning Acceptor Length in Photocatalytic <scp>Donorâ€Acceptor</scp> Conjugated Polymers for Efficient <scp>Solarâ€toâ€Hydrogen</scp> Energy Conversion. Chinese Journal of Chemistry, 2022, 40, 2457-2467.	4.9	9
53	Donorâ€“acceptor photovoltaic polymers based on 1,4â€dithienylâ€2,5â€dialkoxybenzene with intramolecular noncovalent interactions. Journal of Polymer Science Part A, 2018, 56, 689-698.	2.3	8
54	Improving Both Electron and Hole Mobilities of an Ambipolar Polymer by Integrating Sodium Sulfonateâ€Tethered Alkyl Side Chains â€. Chinese Journal of Chemistry, 2020, 38, 1663-1670.	4.9	8

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55	Non-fused molecular photovoltaic acceptor with a planar core structure enabled by bulky and embracing-type side chains. Journal of Materials Chemistry C, 2022, 10, 2945-2949.	5.5	8
56	Changing to Poly(rodâ€coil) Polymers: a Promising Way for an Optoelectronic Compound to Improve Its Film Formation. Chinese Journal of Chemistry, 2015, 33, 847-851.	4.9	7
57	Searching proper oligothiophene segment as centre donor moiety for isoindigo-based small molecular photovoltaic materials. Organic Electronics, 2017, 42, 93-101.	2.6	7
58	Employing Equivalent Circuit Models to Study the Performance of Seleniumâ€Based Solar Cells with Polymers as Hole Transport Layers. Small, 2021, 17, e2101226.	10.0	7
59	Ultrasimple air-annealed pure graphene oxide film for high-performance supercapacitors. Journal of Colloid and Interface Science, 2022, 622, 960-970.	9.4	7
60	Modification of a donor-acceptor photovoltaic polymer by integration of optoelectronic moieties into its side chains. Polymer, 2015, 59, 57-66.	3.8	6
61	Jâ€“V and Câ€“V investigation of the effect of small molecular fullerene and non-fullerene acceptors for CH₃NH₃PbI₃ perovskite solar cell. Journal Physics D: Applied Physics, 2017, 50, 475303.	2.8	6
62	Nonmainstream Outâ€Plane Fluoroâ€•and Aminoâ€Cofunctionalized Graphene for a Striking Electrocatalyst: Programming Substitutive/Reductive Defluorination toward Graphite Fluoride. Advanced Materials Interfaces, 2019, 6, 1801699.	3.7	6
63	Chlorobenzene: A Processing Solvent Enabling the Fabrication of Perovskite Solar Cells with Consecutive Doubleâ€Perovskite and Perovskite/Organic Semiconductor Bulk Heterojunction Layers. Solar Rrl, 2019, 3, 1800325.	5.8	6
64	Donorâ€“acceptor optoelectronic molecules based on hexa-peri-hexabenzocoronene and benzothiadiazole units: effectÂofÂdifferent combinations. Tetrahedron, 2016, 72, 4329-4336.	1.9	5
65	An acrylated fullerene derivative for efficient and thermally stable polymer solar cells. Tetrahedron Letters, 2017, 58, 2695-2699.	1.4	4
66	Interconnecting semiconducting molecules with non-conjugated soft linkers: a way to improve film formation quality without sacrifice in charge mobility. RSC Advances, 2018, 8, 23546-23554.	3.6	4
67	Polymerizable C70 derivatives with acrylate functionality for efficient and stable solar cells. Tetrahedron, 2019, 75, 4676-4685.	1.9	4
68	A new organic-inorganic bismuth halide crystal structure and quantum dot bearing long-chain alkylammonium cations. Organic Electronics, 2019, 70, 155-161.	2.6	4
69	Ring-Opening Polymerization of Chloromethyl Thiirane with AlCl3 and Nd(acac)3Â·3H2O-Al2Et3Cl3 Coordination Catalyst. Polymer Journal, 1997, 29, 1037-1039.	2.7	3
70	Special Issue of "Organic Solids". Chinese Journal of Chemistry, 2013, 31, 1359-1359.	4.9	3
71	Improving supercapacitor performance of alkylated graphene nanosheets via partial fluorination on their alkyl chains. RSC Advances, 2015, 5, 92159-92164.	3.6	3
72	Zwitterionic side chain-modified conjugated polymers with greatly enhanced ambipolar charge-transport mobilities. Chemical Communications, 2021, 57, 11181-11184.	4.1	3

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73	Synthesis of Functional Resins from Poly(Chloromethyl thiirane) and Their Sorption Properties for Noble Metal. Journal of Macromolecular Science - Pure and Applied Chemistry, 1998, 35, 955-964.	2.2	2
74	Studies on Ringâ€Opening Polymerization of Chloromethyl Thiirane with Rare Earth Catalysts and Functional Resins Synthesized therewith. Chinese Journal of Chemistry, 2002, 20, 299-303.	4.9	2
75	A dithieno[3,2-a:3â€²,2â€²-j][5,6,11,12]chrysene diimide based polymer as an electron transport layer for efficient inverted perovskite solar cells. Journal of Materials Chemistry C, 2022, 10, 2703-2710.	5.5	2
76	Benzodithiophene/Benzothiadiazole-Based ADA-Type Optoelectronic Molecules: Influence of Fluorine Substitution. Chinese Journal of Organic Chemistry, 2019, 39, 157.	1.3	2
77	Achieve Better Performance of Inverted Perovskite Solar Cells by Using the Fluorinated Polymer as the Electron Transporting Layer. ACS Applied Energy Materials, 0, , .	5.1	2
78	Kinetic model of gas phase polymerization of 1,3-butadiene catalyzed by supported rare earth coordination system. Science in China Series B: Chemistry, 2000, 43, 477-484.	0.8	1
79	Benzodithiophene-Cored Small Optoelectronic Molecules: Influence of Extension Direction of Conjugated Segments. Chinese Journal of Organic Chemistry, 2016, 36, 1586.	1.3	1
80	Research Advances on the Mechanism of Polymer Solubilization and Selective Separation of Single-Wall Carbon Nanotubes. Chinese Journal of Organic Chemistry, 2020, 40, 3249.	1.3	1
81	Potassium reduced graphite functionalization: Architectural aesthetics and electrical excellence. Carbon, 2022, 186, 75-82.	10.3	0