Jun Liu

List of Publications by Year
in descending order

61 papers	2,132 citations	236612 25 h-index	243296 44 g-index
61 all docs	61 docs citations	61 times ranked	1801 citing authors

#	Article	IF	Citations
1	An n-type narrow-bandgap organoboron polymer with quinoidal character synthesized by direct arylation polymerization. Journal of Materials Chemistry C, 2022, 10, 2718-2723.	2.7	1
2	Organoboron molecules and polymers for organic solar cell applications. Chemical Society Reviews, 2022, 51, 153-187.	18.7	92
3	A Resonating B, N Covalent Bond and Coordination Bond in Aromatic Compounds and Conjugated Polymers. Angewandte Chemie - International Edition, 2022, 61, .	7.2	20
4	A polymer acceptor containing a B â†•N unit with strong fluorescence for organic photovoltaics. Journal of Materials Chemistry C, 2022, 10, 10860-10865.	2.7	8
5	Isomers of Bâ†Nâ€Fused Dibenzoâ€azaacenes: How Bâ†N Affects Optoâ€electronic Properties and Device Behaviors?. Chemistry - A European Journal, 2021, 27, 4364-4372.	1.7	22
6	Effect of Alkyl Side Chains of Polymer Donors on Photovoltaic Performance of All-Polymer Solar Cells. ACS Applied Polymer Materials, 2021, 3, 42-48.	2.0	12
7	Bâ†Nâ€Incorporated Dibenzoâ€azaacene with Selective Nearâ€Infrared Absorption and Visible Transparency. Chemistry - A European Journal, 2021, 27, 2065-2071.	1.7	12
8	Electronâ€Deficient Conjugated Materials via pâ€"Ï€* Conjugation with Boron: Extending Monomers to Oligomers, Macrocycles, and Polymers. Chemistry - A European Journal, 2021, 27, 2973-2986.	1.7	78
9	All-polymer indoor photovoltaics based on polymer acceptors with various bandgap. Organic Electronics, 2021, 92, 106134.	1.4	11
10	A Distannylated Monomer of a Strong Electronâ€Accepting Organoboron Building Block: Enabling Acceptorâ€"Acceptorâ€Type Conjugated Polymers for nâ€Type Thermoelectric Applications. Angewandte Chemie - International Edition, 2021, 60, 16184-16190.	7.2	78
11	A Distannylated Monomer of a Strong Electronâ€Accepting Organoboron Building Block: Enabling Acceptorâ€"Acceptorâ€Type Conjugated Polymers for nâ€Type Thermoelectric Applications. Angewandte Chemie, 2021, 133, 16320-16326.	1.6	15
12	Bâ†N-Incorporated Dibenzo-azaacenes as n-Type Thermoelectric Materials. ACS Applied Materials & Interfaces, 2021, 13, 33321-33327.	4.0	15
13	Nâ€"B â†•N Bridged Bithiophene: A Building Block with Reduced Band Gap to Design n-Type Conjugated Polymers. Macromolecules, 2021, 54, 6718-6725.	2.2	17
14	Self-Standing and Flexible Thermoelectric Nanofiber Mat of an n-Type Conjugated Polymer. ACS Applied Electronic Materials, 2021, 3, 3641-3647.	2.0	10
15	Boosting charge and thermal transport â€" role of insulators in stable and efficient n-type polymer transistors. Journal of Materials Chemistry C, 2021, 9, 12281-12290.	2.7	5
16	A polymer acceptor containing the Bâ†N unitfor all-polymer solar cells with 14% efficiency. Journal of Materials Chemistry A, 2021, 9, 21071-21077.	5.2	36
17	Molecular Acceptors Based on a Triarylborane Core Unit for Organic Solar Cells. Chemistry - A European Journal, 2020, 26, 873-880.	1.7	21
18	Organoboron Polymer for 10% Efficiency All-Polymer Solar Cells. Chemistry of Materials, 2020, 32, 1308-1314.	3.2	155

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19	A Conjugated Polymer Containing a B â†•N Unit for Unipolar n-Type Organic Field-Effect Transistors. ACS Applied Polymer Materials, 2020, 2, 19-25.	2.0	35
20	Oligo(ethylene glycol) as side chains of conjugated polymers for optoelectronic applications. Polymer Chemistry, 2020, 11, 1261-1270.	1.9	76
21	Donorâ€“acceptor type conjugated copolymers based on alternating BNBP and oligothiophene units: from electron acceptor to electron donor and from amorphous to semicrystalline. Journal of Materials Chemistry A, 2020, 8, 20998-21006.	5.2	22
22	Polymer Acceptors Containing Bâ†N Units for Organic Photovoltaics. Accounts of Chemical Research, 2020, 53, 1557-1567.	7.6	176
23	BODIPY bearing alkylthienyl side chains: a new building block to design conjugated polymers with near infrared absorption for organic photovoltaics. Polymer Chemistry, 2020, 11, 5750-5756.	1.9	9
24	Panchromatic Organoboron Molecules with Tunable Absorption Spectra. Chemistry - an Asian Journal, 2020, 15, 3314-3320.	1.7	3
25	Organic solar cells based on small molecule donors and polymer acceptors operating at 150 Â°C. Journal of Materials Chemistry A, 2020, 8, 10983-10988.	5.2	37
26	Designed Polymer Donors to Match an Amorphous Polymer Acceptor in All-Polymer Solar Cells. ACS Applied Electronic Materials, 2020, 2, 2274-2281.	2.0	11
27	Effect of polymer donor aggregation on the active layer morphology of amorphous polymer acceptor-based all-polymer solar cells. Journal of Materials Chemistry C, 2020, 8, 5613-5619.	2.7	13
28	B â†•N Unit Enables n-Doping of Conjugated Polymers for Thermoelectric Application. ACS Applied Materials & Interfaces, 2020, 12, 10428-10433.	4.0	42
29	Improving Active Layer Morphology of All-Polymer Solar Cells by Solution Temperature. Macromolecules, 2020, 53, 3325-3331.	2.2	43
30	A high molecular weight organometallic conjugated polymer incorporated with Hg(<scp>ii</scp>). Chemical Communications, 2020, 56, 5701-5704.	2.2	4
31	Morphology of small molecular donor/polymer acceptor blends in organic solar cells: effect of the Ï€â€“Ï€ stacking capability of the small molecular donors. Journal of Materials Chemistry C, 2019, 7, 10521-10529.	2.7	17
32	Small Molecular Donor/Polymer Acceptor Type Organic Solar Cells: Effect of Molecular Weight on Active Layer Morphology. Macromolecules, 2019, 52, 8682-8689.	2.2	33
33	Amorphous Polymer Acceptor Containing B â†•N Units Matches Various Polymer Donors for All-Polymer Solar Cells. Macromolecules, 2019, 52, 7081-7088.	2.2	42
34	Quadruply Bâ†N-Fused Dibenzo-azaacene with High Electron Affinity and High Electron Mobility. Journal of the American Chemical Society, 2019, 141, 17015-17021.	6.6	93
35	Enhanced efficacy of photothermal therapy by combining a semiconducting polymer with an inhibitor of a heat shock protein. Materials Chemistry Frontiers, 2019, 3, 127-136.	3.2	68
36	Cesium-functionalized pectin as a cathode interlayer for polymer solar cells. Journal of Materials Chemistry C, 2019, 7, 1592-1596.	2.7	10

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37	A p-Ï€* conjugated triarylborane as an alcohol-processable n-type semiconductor for organic optoelectronic devices. Journal of Materials Chemistry C, 2019, 7, 7427-7432.	2.7	42
38	Effect of fluorine substitution in organoboron electron acceptors for photovoltaic application. Organic Chemistry Frontiers, 2019, 6, 1996-2003.	2.3	15
39	Improving Active Layer Morphology of All-Polymer Solar Cells by Dissolving the Two Polymers Individually. Macromolecules, 2019, 52, 2402-2410.	2.2	49
40	A disk-type polyarene containing four Bâ†N units. Chemical Communications, 2019, 55, 3638-3641.	2.2	17
41	All-polymer indoor photovoltaics with high open-circuit voltage. Journal of Materials Chemistry A, 2019, 7, 26533-26539.	5.2	107
42	Small-Molecule Donor/Polymer Acceptor Type Organic Solar Cells: Effect of Terminal Groups of Small-Molecule Donors. Organic Materials, 2019, 01, 088-094.	1.0	4
43	Amino <i>N</i>-oxide functionalized graphene quantum dots as a cathode interlayer for inverted polymer solar cells. Journal of Materials Chemistry C, 2018, 6, 5684-5689.	2.7	11
44	nâ€Type Azaacenes Containing Bâ†N Units. Angewandte Chemie - International Edition, 2018, 57, 2000-2004.	7.2	82
45	nâ€Type Azaacenes Containing Bâ†N Units. Angewandte Chemie, 2018, 130, 2018-2022.	1.6	18
46	A New Polymer Electron Acceptor Based on Thiopheneâ€<i>S,S</i>â€dioxide Unit for Organic Photovoltaics. Macromolecular Rapid Communications, 2018, 39, 1700505.	2.0	15
47	An Aâ€"Dâ€"Aâ€²â€"Dâ€"A type small molecule acceptor with wide absorption spectrum and near-infrared absorption. Materials Chemistry Frontiers, 2018, 2, 2333-2339.	3.2	15
48	Effects of the Substituents of Boron Atoms on Conjugated Polymers Containing Bâ†N Units. Chemistry - A European Journal, 2018, 24, 13043-13048.	1.7	25
49	An Aâ€"Dâ€"Aâ€²â€"Dâ€"A type small molecule acceptor with a broad absorption spectrum for organic solar cells. Chemical Communications, 2018, 54, 303-306.	2.2	61
50	Electron-transporting polymers based on a double Bâ†N bridged bipyridine (BNBP) unit. Chemical Communications, 2017, 53, 1649-1652.	2.2	45
51	Dual FÃ¶rster resonance energy transfer and morphology control to boost the power conversion efficiency of all-polymer OPVs. RSC Advances, 2017, 7, 13289-13298.	1.7	12
52	Tuning the work functions of graphene quantum dot-modified electrodes for polymer solar cell applications. Nanoscale, 2017, 9, 3524-3529.	2.8	40
53	Polymer Electron Acceptors with Conjugated Side Chains for Improved Photovoltaic Performance. Macromolecules, 2017, 50, 3171-3178.	2.2	38
54	Organic solar cells based on a polymer acceptor and a small molecule donor with a high open-circuit voltage. Journal of Materials Chemistry C, 2017, 5, 6812-6819.	2.7	24

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55	A New Electronâ€Rich Unit for Polymer Electron Acceptors: 4,4â€Difluoroâ€4<i>H</i>â€cyclopenta[2,1â€b:3,4â€bâ€²]dithiophene. Chemistry - A European Journal, 2017, 23, 9486-9490.	1.7	23
56	Fine-Tuning LUMO Energy Levels of Conjugated Polymers Containing a Bâ†N Unit. Macromolecules, 2017, 50, 8521-8528.	2.2	46
57	An organoboron compound with a wide absorption spectrum for solar cell applications. Chemical Communications, 2017, 53, 12213-12216.	2.2	48
58	A difluorobenzothiadiazole-based conjugated polymer with alkylthiophene as the side chains for efficient, additive-free and thick-film polymer solar cells. Journal of Materials Chemistry A, 2017, 5, 20473-20481.	5.2	20
59	A polymer electron donor based on isoindigo units bearing branched oligo(ethylene glycol) side chains for polymer solar cells. Polymer Chemistry, 2017, 8, 5496-5503.	1.9	26
60	Incorporating Cyano Groups to a Conjugated Polymer Based on Double Bâ†N Bridged Bipyridine Unit for Unipolar n-Type Organic Field-Effect Transistors. Organic Materials, 0, 3, .	1.0	5
61	Resonating B, N Covalent Bond and Coordination Bond in Aromatic Compounds and Conjugated Polymers. Angewandte Chemie, 0, , .	1.6	2