Weiguo Zhu

List of Publications by Year
in descending order

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Version: 2024-02-01

200 papers	5,354 citations	81900 39 h-index	133252 59 g-index
200 all docs	200 docs citations	200 times ranked	3904 citing authors

#	Article	IF	Citations
1	Highly efficient electrophosphorescent devices based on conjugated polymers doped with iridium complexes. Applied Physics Letters, 2002, 80, 2045-2047.	3.3	171
2	Over 14% efficiency all-polymer solar cells enabled by a low bandgap polymer acceptor with low energy loss and efficient charge separation. Energy and Environmental Science, 2020, 13, 5017-5027.	30.8	170
3	Recent progress in luminescent liquid crystal materials: design, properties and application for linearly polarised emission. Journal of Materials Chemistry C, 2015, 3, 7993-8005.	5.5	151
4	Nearâ€Infrared Emitting Materials via Harvesting Triplet Excitons: Molecular Design, Properties, and Application in Organic Light Emitting Diodes. Advanced Optical Materials, 2018, 6, 1800466.	7.3	139
5	Enhanced Photovoltaic Performance of Indacenodithiopheneâ€Quinoxaline Copolymers by Sideâ€Chain Modulation. Advanced Energy Materials, 2014, 4, 1400680.	19.5	134
6	Fluorine substitution enhanced photovoltaic performance of a Dâ€“A1â€“Dâ€“A2 copolymer. Chemical Communications, 2013, 49, 9335.	4.1	116
7	Fabrication of Circularly Polarized MRâ€TADF Emitters with Asymmetrical Peripheralâ€Lock Enhancing Helical B/Nâ€Doped Nanographenes. Advanced Materials, 2022, 34, e2105080.	21.0	112
8	Over 18% ternary polymer solar cells enabled by a terpolymer as the third component. Nano Energy, 2022, 92, 106681.	16.0	97
9	Extending Ï€-Conjugation System with Benzene: An Effective Method To Improve the Properties of Benzodithiophene-Based Polymer for Highly Efficient Organic Solar Cells. Macromolecules, 2014, 47, 7823-7830.	4.8	94
10	Dâ€“A₁â€“Dâ€“A₂ Copolymers with Extended Donor Segments for Efficient Polymer Solar Cells. Macromolecules, 2015, 48, 1009-1016.	4.8	82
11	Simple-structured small molecule acceptors constructed by a weakly electron-deficient thiazolothiazole core for high-efficiency non-fullerene organic solar cells. Journal of Materials Chemistry A, 2018, 6, 24267-24276.	10.3	78
12	Dinuclear platinum complexes containing aryl-isoquinoline and oxadiazole-thiol with an efficiency of over 8.8%: in-depth investigation of the relationship between their molecular structure and near-infrared electroluminescent properties in PLEDs. Journal of Materials Chemistry C, 2016, 4, 6007-6015.	5.5	76
13	Highly Emissive Dinuclear Platinum(III) Complexes. Journal of the American Chemical Society, 2020, 142, 7469-7479.	13.7	76
14	Molecular Engineering through Control of Structural Deformation for Highly Efficient Ultralong Organic Phosphorescence. Angewandte Chemie - International Edition, 2021, 60, 2058-2063.	13.8	75
15	A Novel Benzo[1,2-b:4,5-bâ€²]dithiophene-Based Conjugated Polymer with a Pendant Diketopyrrolopyrrole Unit for High-Performance Solar Cells. Macromolecules, 2013, 46, 113-118.	4.8	74
16	Highly efficient blueish-green fluorescent OLEDs based on AIE liquid crystal molecules: from ingenious molecular design to multifunction materials. Journal of Materials Chemistry C, 2017, 5, 3999-4008.	5.5	72
17	Exploiting racemism enhanced organic room-temperature phosphorescence to demonstrate Wallachâ€™s rule in the lighting chiral chromophores. Nature Communications, 2020, 11, 2145.	12.8	70
18	An alternating Dâ€“A1â€“Dâ€“A2 copolymer containing two electron-deficient moieties for efficient polymer solar cells. Journal of Materials Chemistry A, 2013, 1, 11141.	10.3	66

#	Article	IF	Citations
19	Highly efficient near-infrared emission from binuclear cyclo-metalated platinum complexes bridged with 5-(4-octyloxyphenyl)-1,3,4-oxadiazole-2-thiol in PLEDs. Organic Electronics, 2012, 13, 932-937.	2.6	64
20	Boosting Efficiency of Nearâ€Infrared Emitting Iridium(III) Phosphors by Administrating Their Ï€â€“Ï€ Conjugation Effect of Coreâ€“Shell Structure in Solutionâ€Processed OLEDs. Advanced Optical Materials, 2020, 8, 2000154.	7.3	62
21	Metallomesogens based on platinum(ii) complexes: synthesis, luminescence and polarized emission. Dalton Transactions, 2011, 40, 5046.	3.3	60
22	Novel Oligomer Enables Green Solvent Processed 17.5% Ternary Organic Solar Cells: Synergistic Energy Loss Reduction and Morphology Fineâ€Tuning. Advanced Materials, 2022, 34, e2107659.	21.0	57
23	Synthesis and Optoelectronic Characterization of a Monochromic Red-Emitting Europium(III) Complex Containing Triphenylamine-Functionalized Phenanthroline. Journal of Physical Chemistry C, 2011, 115, 4209-4216.	3.1	54
24	High-performance all-polymer solar cells enabled by a novel low bandgap non-fully conjugated polymer acceptor. Science China Chemistry, 2021, 64, 1380-1388.	8.2	51
25	An overview of phosphorescent metallomesogens based on platinum and iridium. Journal of Materials Chemistry C, 2018, 6, 9848-9860.	5.5	50
26	Simple-Structured NIR-Absorbing Small-Molecule Acceptors with a Thiazolothiazole Core: Multiple Noncovalent Conformational Locks and Dâ€“A Effect for Efficient OSCs. ACS Applied Materials & Interfaces, 2019, 11, 48128-48133.	8.0	50
27	Intramolecular Throughâ€Space Charge Transfer Based TADFâ€Active Multifunctional Emitters for High Efficiency Solutionâ€Processed OLED. Advanced Optical Materials, 2021, 9, 2100180.	7.3	49
28	Synthesis and Photovoltaic Properties of Low Band Gap Polymers Containing Benzo[1,2-b:4,5-câ€²]dithiophene-4,8-dione. Macromolecules, 2012, 45, 1710-1714.	4.8	48
29	Ïƒâ€“Ï€ and pâ€“Ï€ conjugation induced NIR-emitting iridium(<scp>iii</scp>) complexes anchored by flexible side chains in a rigid dibenzo[a,c]phenazine moiety and their application in highly efficient solution-processable NIR-emitting devices. Journal of Materials Chemistry C, 2020, 8, 7079-7088.	5.5	48
30	Significantly improved photovoltaic performance of the triangular-spiral TPA(DPPâ€“PN)₃ by appending planar phenanthrene units into the molecular terminals. Journal of Materials Chemistry A, 2015, 3, 886-893.	10.3	47
31	Near-infrared emitting pyrazole-bridged binuclear platinum complexes: Synthesis, photophysical and electroluminescent properties in PLEDs. Dyes and Pigments, 2016, 128, 68-74.	3.7	46
32	Deep Blue Emitter Based on Tris(triazolo)triazine Moiety with CIE_yÂ<Â0.08 for Highly Efficient Solutionâ€Processed Organic Lightâ€Emitting Diodes Via Molecular Strategy of â€œHot Excitonsâ€• Advanced Functional Materials, 2022, 32, .	14.9	46
33	10.13% Efficiency Allâ€Polymer Solar Cells Enabled by Improving the Optical Absorption of Polymer Acceptors. Solar Rrl, 2020, 4, 2000142.	5.8	45
34	Efficient polymer solar cells based on a new quinoxaline derivative with fluorinated phenyl side chain. Journal of Materials Chemistry C, 2016, 4, 2606-2613.	5.5	44
35	Highly Dichroic Metallomesogen of Dinuclear Platinum Complex: Synthesis and Liquid Crystal and Photophysical Properties. Journal of Physical Chemistry C, 2012, 116, 5908-5914.	3.1	43
36	Iridium(<scp>iii</scp>) phosphors with rigid fused-heterocyclic chelating architectures for efficient deep-red/near-infrared emissions in polymer light-emitting diodes. Journal of Materials Chemistry C, 2019, 7, 10961-10971.	5.5	42

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37	An efficient method to achieve a balanced open circuit voltage and short circuit current density in polymer solar cells. Journal of Materials Chemistry A, 2016, 4, 8291-8297.	10.3	41
38	Manipulating backbone structure with various conjugated spacers to enhance photovoltaic performance of Dâ€“A-type two-dimensional copolymers. Organic Electronics, 2014, 15, 2876-2884.	2.6	40
39	Enhancing the photovoltaic properties of terpolymers containing benzo[1,2-b:4,5-bâ€²]dithiophene, phenanthro[4,5-abc]phenazine and benzo[c][1,2,5]thiadiazole by changing the substituents. Journal of Materials Chemistry C, 2015, 3, 6240-6248.	5.5	40
40	Near-infrared emission from binuclear platinum (II) complexes containing pyrenylpyridine and pyridylthiolate units: Synthesis, photo-physical and electroluminescent properties. Dyes and Pigments, 2017, 138, 162-168.	3.7	40
41	Solution-processed, indacenodithiophene-based, small-molecule organic field-effect transistors and solar cells. Journal of Materials Chemistry C, 2014, 2, 7523.	5.5	39
42	Molecular isomeric engineering of naphthyl-quinoline-containing dinuclear platinum complexes to tune emission from deep red to near infrared. Journal of Materials Chemistry C, 2019, 7, 630-638.	5.5	39
43	Dâ€“Aâ€“Ar-type small molecules with enlarged Ï€-system of phenanthrene at terminal for high-performance solution processed organic solar cells. Organic Electronics, 2014, 15, 1173-1183.	2.6	38
44	Solution-Processed Highly Efficient Bluish-Green Thermally Activated Delayed Fluorescence Emitter Bearing an Asymmetric Oxadiazoleâ€“Difluoroboron Double Acceptor. ACS Applied Materials & Interfaces, 2019, 11, 24339-24348.	8.0	38
45	Significantly Enhancing the Efficiency of a New Lightâ€Harvesting Polymer with Alkylthio naphthyl Substituents Compared to Their Alkoxyl Analogs. Advanced Energy Materials, 2018, 8, 1702489.	19.5	37
46	An Aâ€“Dâ€“Dâ€“A-type non-fullerene small-molecule acceptor with strong near-infrared absorption for high performance polymer solar cells. Journal of Materials Chemistry C, 2019, 7, 13301-13306.	5.5	37
47	Highly-efficiency red-emitting platinum (II) complexes containing 4â€²-diarylamino-1-phenylisoquinoline ligands in polymer light-emitting diodes: Synthesis, structure, photoelectron and electroluminescence. Dyes and Pigments, 2010, 86, 166-173.	3.7	36
48	A novel near-infrared-emitting cyclometalated platinum (II) complex with donorâ€“acceptorâ€“acceptor chromophores. Dyes and Pigments, 2014, 107, 146-152.	3.7	35
49	Enhancing the photovoltaic performance of triphenylamine based star-shaped molecules by tuning the moiety sequence of their arms in organic solar cells. Journal of Materials Chemistry A, 2015, 3, 13568-13576.	10.3	35
50	Using Two Compatible Donor Polymers Boosts the Efficiency of Ternary Organic Solar Cells to 17.7%. Chemistry of Materials, 2021, 33, 7254-7262.	6.7	35
51	Benzotriazole-containing donorâ€“acceptorâ€“acceptor type cyclometalated iridium(III) complex for solution-processed near-infrared polymer light emitting diodes. Dyes and Pigments, 2016, 131, 231-238.	3.7	34
52	Dinuclear platinum(<scp>ii</scp>) complex dominated by a zig-zag-type cyclometalated ligand: a new approach to realize high-efficiency near infrared emission. Journal of Materials Chemistry C, 2018, 6, 5769-5777.	5.5	33
53	Tuning the central fused ring and terminal units to improve the photovoltaic performance of Ar(Aâ€“D)₂ type small molecules in solution-processed organic solar cells. Journal of Materials Chemistry A, 2016, 4, 4952-4961.	10.3	32
54	Acceptor-donor-acceptor small molecules containing benzo[1,2- b :4,5- b ']dithiophene and rhodanine units for solution processed organic solar cells. Dyes and Pigments, 2015, 116, 13-19.	3.7	31

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55	Novel cyclometalated platinum (II) complex containing alkyl-trifluorene picolinic acid as emitter for single-layer white PLEDs. Organic Electronics, 2010, 11, 1954-1959.	2.6	30
56	Novel wide band-gap polymer utilizing fused hetero-aromatic unit for efficient polymer solar cells and field-effect transistors. Polymer, 2014, 55, 6708-6716.	3.8	30
57	Wide bandgap copolymers with vertical benzodithiophene dicarboxylate for high-performance polymer solar cells with an efficiency up to 7.49%. Journal of Materials Chemistry A, 2016, 4, 18792-18803.	10.3	30
58	Spirobifluorene-cored wide bandgap non-fullerene small molecular acceptor with 3D structure for organic solar cells. Dyes and Pigments, 2019, 162, 797-801.	3.7	30
59	Improved photovoltaic performance of a 2D-conjugated benzodithiophene-based polymer by the side chain engineering of quinoxaline. Polymer Chemistry, 2015, 6, 4290-4298.	3.9	29
60	Influence of integrated alkyl-chain length on the mesogenic and photophysical properties of platinum-based metallomesogens and their application for polarized white OLEDs. Dyes and Pigments, 2016, 133, 238-247.	3.7	29
61	Linearly polarized electroluminescence from ionic iridium complex-based metallomesogens: the effect of aliphatic-chain on their photophysical properties. Journal of Materials Chemistry C, 2018, 6, 3298-3309.	5.5	29
62	Significantly increasing open-circuit voltage of the benzo[1,2-b:4,5-bâ€²]dithiophene-alt-5,8-dithienyl-quinoxaline copolymers based PSCs by appending dioctyloxy chains at 6,7-positions of quinoxaline. Organic Electronics, 2015, 17, 129-137.	2.6	28
63	Blue and Green Phosphorescent Liquidâ€Crystalline Iridium Complexes with High Hole Mobility. Chemistry - A European Journal, 2016, 22, 1618-1621.	3.3	28
64	Combined optimization of emission layer morphology and hole-transport layer for enhanced performance of perovskite light-emitting diodes. Journal of Materials Chemistry C, 2017, 5, 6169-6175.	5.5	28
65	Nonconjugated Terpolymer Acceptors with Two Different Fused-Ring Electron-Deficient Building Blocks for Efficient All-Polymer Solar Cells. ACS Applied Materials & Interfaces, 2021, 13, 6442-6449.	8.0	28
66	Synthesis and optoelectronic properties of a heterobimetallic Pt(ii)â€“Ir(iii) complex used as a single-component emitter in white PLEDs. Dalton Transactions, 2012, 41, 2972.	3.3	27
67	Improved photovoltaic performance of star-shaped molecules with a triphenylamine core by tuning the substituted position of the carbazolyl unit at the terminal. Journal of Materials Chemistry A, 2015, 3, 10883-10889.	10.3	27
68	Luminescent metallomesogens based on platinum complex containing triphenylene unit. Tetrahedron, 2015, 71, 463-469.	1.9	27
69	Tuning the oxidation potential of 2-phenylpyridine-based iridium complexes to improve the performance of bluish and white OLEDs. Journal of Materials Chemistry C, 2016, 4, 3738-3746.	5.5	27
70	Design, synthesis and photovoltaic properties of two Ï€-bridged cyclopentadithiophene-based polymers. Polymer Chemistry, 2014, 5, 6551-6557.	3.9	26
71	Improving Photovoltaic Performance of the Linear A-Ar-A-type Small Molecules with Diketopyrropyrrole Arms by Tuning the Linkage Position of the Anthracene Core. ACS Applied Materials & Interfaces, 2015, 7, 18292-18299.	8.0	25
72	Synthesis and characterization of D-A-A type regular terpolymers with narrowed band-gap and their application in high performance polymer solar cells. Organic Electronics, 2016, 32, 237-243.	2.6	25

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73	Cruciform Molecules Bearing Bis(phenylsulfonyl)benzene Moieties for Highâ€Efficiency Solution Processable OLEDs: When Thermally Activated Delayed Fluorescence Meets Mechanochromic Luminescence. Advanced Optical Materials, 2020, 8, 1901021.	7.3	25
74	Synthesis and optoelectronic properties of a novel dinuclear cyclometalated platinum(II) complex containing triphenylamine-substituted indolo[3,2-b]carbazole derivative inÂtheÂsingle-emissive-layer WPLEDs. Tetrahedron, 2014, 70, 1246-1251.	1.9	24
75	Achieving near-infrared emission in platinum(<scp>ii</scp>) complexes by using an extended donorâ€“acceptor-type ligand. Dalton Transactions, 2016, 45, 5071-5080.	3.3	24
76	Deep Red Iridium(III) Complexes Based on Pyrene-Substituted Quinoxaline Ligands for Solution-Processed Phosphorescent Organic Light-Emitting Diodes. Inorganic Chemistry, 2020, 59, 332-342.	4.0	24
77	17.25% high efficiency ternary solar cells with increased open-circuit voltage using a high HOMO level small molecule guest donor in a PM6:Y6 blend. Journal of Materials Chemistry A, 2021, 9, 20493-20501.	10.3	24
78	Improving self-assembly behavior and photovoltaic performance of the indacenodithiophene-based small molecules via increasing dipole moment of the terminal group. Dyes and Pigments, 2017, 144, 142-150.	3.7	23
79	Efficient chemical structure and device engineering for achieving difluorinated 2,2â€²-bithiophene-based small molecular organic solar cells with 9.0% efficiency. Journal of Materials Chemistry A, 2018, 6, 12493-12505.	10.3	23
80	Combining Benzotriazole and Benzodithiophene Host Units in Hostâ€“Guest Polymers for Efficient and Stable Nearâ€Infrared Emission from Lightâ€Emitting Electrochemical Cells. Advanced Optical Materials, 2019, 7, 1900280.	7.3	23
81	Synthesis and Electronic Properties of Diketopyrrolopyrrole-Based Polymers with and without Ring-Fusion. Macromolecules, 2021, 54, 970-980.	4.8	23
82	Improve the photovoltaic performance of new quinoxaline-based conjugated polymers from the view of conjugated length and steric hindrance. Polymer Chemistry, 2015, 6, 55-63.	3.9	22
83	White emission from dinuclear cyclometalated platinum(II) complex in single-emitting layer PLEDs. Tetrahedron, 2011, 67, 2118-2124.	1.9	21
84	Synthesis and optoelectronic properties of novel fluorene-bridged dinuclear cyclometalated iridium (III) complex with Aâ€“Dâ€“A framework in the single-emissive-layer WOLEDs. Organic Electronics, 2014, 15, 2942-2949.	2.6	21
85	Fluorination as an effective tool to increase the photovoltaic performance of indacenodithiophene-alt-quinoxaline based wide-bandgap copolymers. Organic Electronics, 2016, 33, 128-134.	2.6	21
86	Tetradentate Pt(II) 3,6-substitued salophen complexes: Synthesis and tuning emission from deep-red to near infrared by appending donor-acceptor framework. Organic Electronics, 2017, 50, 317-324.	2.6	21
87	Triphenylamine-functionalized iridium(III) complexes for near-infrared phosphorescent organic light emitting diodes. Dyes and Pigments, 2019, 166, 307-313.	3.7	21
88	Highly Efficient and Solutionâ€Processed Singleâ€Emissiveâ€Layer Hybrid White Organic Lightâ€Emitting Diodes with Tris(triazolo)triazineâ€Based Blue Thermally Activated Delayed Fluorescence Emitter. Advanced Optical Materials, 2021, 9, 2101518.	7.3	21
89	Synthesis, opto-physics, and electroluminescence of cyclometalated iridium (III) complex with alkyltrifluorene picolinic acid. Tetrahedron, 2010, 66, 1483-1488.	1.9	20
90	Increasing thiophene spacers between thieno[3,2-b]thiophene and benzothiadiazole units in backbone to enhance photovoltaic performance for their 2-D polymers. Dyes and Pigments, 2015, 112, 99-104.	3.7	20

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91	Photovoltaic Small Molecules of TPA(F_xBT-T-Cz)₃: Tuning Open-Circuit Voltage over 1.0 V for Their Organic Solar Cells by Increasing Fluorine Substitution. ACS Applied Materials & Interfaces, 2016, 8, 30320-30327.	8.0	20
92	Engineering the Interconnecting Position of Starâ€Shaped Donorâ€“Ïâ€“Acceptor Molecules Based on Triazine, Spirofluorene, and Triphenylamine Moieties for Color Tuning from Deep Blue to Green. Chemistry - an Asian Journal, 2016, 11, 2555-2563.	3.3	20
93	Enhancing the photovoltaic properties of low bandgap terpolymers based on benzodithiophene and phenanthrophenazine by introducing different second acceptor units. Polymer Chemistry, 2016, 7, 1747-1755.	3.9	20
94	Synthesis and photovoltaic performance of DPP-based small molecules with tunable energy levels by altering the molecular terminals. Dyes and Pigments, 2016, 125, 151-158.	3.7	20
95	Synthesis, optoelectronic properties of a dinuclear platinum(<scp>ii</scp>) complex containing a binary cyclometalated ligand in the single-emissive-layer PLEDs. Dalton Transactions, 2013, 42, 1231-1237.	3.3	19
96	Novel cyclometalated platinum (II) complex containing carrier-transporting groups: Synthesis, luminescence and application in single dopant white PLEDs. Dyes and Pigments, 2013, 96, 732-737.	3.7	19
97	Improved photovoltaic performance of two-dimensional low band-gap conjugated polymers with thieno[3,2-b]thiophene and diketopyrrolopyrrole units by altering pendent position of conjugated side chain. Dyes and Pigments, 2014, 109, 6-12.	3.7	19
98	Efficient near-infrared emitting tetradentate bis-cyclometalated platinum (IV) complexes for solution-processed polymer light-emitting diodes. Dyes and Pigments, 2017, 142, 457-464.	3.7	19
99	Achieving NIR emission for tetradentate platinum (II) salophen complexes by attaching dual donor-accepter frameworks in the heads of salophen. Dyes and Pigments, 2017, 138, 100-106.	3.7	19
100	Chloride side-chain engineered quinoxaline-based D-A copolymer enabling non-fullerene organic solar cells with over 16% efficiency. Chemical Engineering Journal, 2022, 437, 135182.	12.7	19
101	Non-fused-ring asymmetrical electron acceptors assembled by multi-functional alkoxy indenothiophene unit to construct efficient organic solar cells. Chemical Engineering Journal, 2022, 444, 136509.	12.7	19
102	Synthesis, optophysical and electrochemical properties of bipolar-transporting europium(III) complexes with carbazole and oxadiazole units. Tetrahedron, 2010, 66, 7411-7417.	1.9	18
103	Efficient strategies to improve photovoltaic performance of linear-shape molecules by introducing large planar aryls in molecular center and terminals. Organic Electronics, 2015, 17, 198-207.	2.6	18
104	Significant influence of the benzothiophene ring substitution position on the photovoltaic performance of benzodithiophene-based donor polymers. Journal of Materials Chemistry C, 2020, 8, 3183-3191.	5.5	17
105	Molecular Engineering through Control of Structural Deformation for Highly Efficient Ultralong Organic Phosphorescence. Angewandte Chemie, 2021, 133, 2086-2091.	2.0	17
106	A simple-structure small-molecule acceptor enables over 18% efficiency ternary polymer solar cells with a broad composition tolerance. Chemical Engineering Journal, 2022, 445, 136691.	12.7	17
107	A new donorâ€“acceptorâ€“donor ternary copolymer pending additional diketopyrrolopyrrole unit in the side of a donor for efficient solar cells. Organic Electronics, 2013, 14, 1510-1515.	2.6	16
108	Boosting the efficiency of PTB7-Th:PC₇₁BM polymer solar cells via a low-cost halogen-free supramolecular solid additive. Journal of Materials Chemistry C, 2020, 8, 16551-16560.	5.5	16

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109	Ester side chains engineered quinoxaline based D-A copolymers for high-efficiency all-polymer solar cells. Chemical Engineering Journal, 2022, 429, 132551.	12.7	16
110	Influence of charge transfer strength on emission bandwidth for multiple-resonance emitters via systematically tuning the acceptorâ€“donor assembly. Journal of Materials Chemistry C, 2022, 10, 7866-7874.	5.5	16
111	Synthesis and photovoltaic performances of benzo[1,2â€b:4,5â€b']dithiopheneâ€altâ€2,3â€diphenylquinoxaline copolymers pending functional groups on phenyl rings. Journal of Polymer Science Part A, 2013, 51, 1051-1057.	2.3	15
112	Reduced-bandgap triphenylamine-alt -benzo[1,2-b :4,5-b â€²]dithiophene copolymers pending benzothiadiazole or diketopyrrolopyrrole units for efficient polymer solar cells. Journal of Polymer Science Part A, 2013, 51, 4103-4110.	2.3	15
113	Tuning photovoltaic performance of 9,9â€dioctylfluoreneâ€alt â€5,7â€bis(thiophenâ€2â€yl)â€2,3â€biphenylthieno[3,4â€b]pyrazine copolymeric derivatives by attaching additional donor units in pendant phenyl ring. Journal of Polymer Science Part A, 2012, 50, 4686-4694.	2.3	14
114	High-efficiency saturated red emission from binuclear cyclo-metalated platinum complex containing 5-(4-octyloxyphenyl)-1,3,4-oxadiazole-2-thiol ancillary ligand in PLED. Science China Chemistry, 2013, 56, 1137-1142.	8.2	14
115	Structure-performance correlation of indacenodithiophene-based narrow band-gap polymers with pendant diketopyrrolopyrrole units. Dyes and Pigments, 2017, 141, 21-28.	3.7	14
116	A novel donor moiety 9,9,9â€²9â€²-tetramethyl-9,9â€²10,10â€²-tetrahydro-2,10â€²-biacridine via one-pot Câ€“H arylation for TADF emitters and their application in highly efficient solution-processable OLEDs. Journal of Materials Chemistry C, 2020, 8, 8971-8979.	5.5	14
117	More efficient spinâ€“orbit coupling: adjusting the ligand field strength to the second metal ion in asymmetric binuclear platinum(<scp>ii</scp>) configurations. Dalton Transactions, 2020, 49, 8722-8733.	3.3	14
118	Single-layer white polymer light-emitting diodes based on an iridium (III) complex containing alkyltrifluorene picolinic acid. Dyes and Pigments, 2011, 91, 495-500.	3.7	13
119	Tuning the Isomeric Fused Heteroaromatic Core of Small Donorâ€“Acceptor Molecules to Alter Their Crystalline Nature and Enhance Photovoltaic Performance. European Journal of Organic Chemistry, 2015, 2015, 820-827.	2.4	13
120	D(A-Aâ€²)2 architecture: An efficient strategy to improve photovoltaic performance of small molecules for solution-processed organic solar cells. Dyes and Pigments, 2016, 133, 153-160.	3.7	13
121	Structure evolution from D-A-D type small molecule toward D-A-D-A-D type oligomer for high-efficiency photovoltaic donor materials. Dyes and Pigments, 2021, 186, 108950.	3.7	13
122	Improving optoelectronic properties of the 2,7â€polyfluorene derivatives with carbazole and oxadiazole pendants by incorporating the blueâ€emitting iridium complex pendants in Câ€9 position of fluorine unit. Journal of Polymer Science Part A, 2012, 50, 149-155.	2.3	12
123	Small molecule acceptors with indacenodithiopheneâ€“benzodithiopheneâ€“indacenodithiophene as donating cores for solution-processed non-fullerene solar cells. Chemical Physics Letters, 2019, 726, 7-12.	2.6	12
124	Near-infrared cyclometalated iridium(<scp>iii</scp>) complexes with bipolar features for efficient OLEDs via solution-processing. Dalton Transactions, 2020, 49, 8785-8790.	3.3	12
125	Significantly improved photovoltaic performances of the dithiopheneâ€benzothiadiazoleâ€altâ€fluorene copolymers by incorporating carbazole units in fluorene moiety. Journal of Polymer Science Part A, 2011, 49, 3874-3881.	2.3	11
126	Starâ€Shaped Trinuclear Cyclometalated Platinum(II) Complexes as Singleâ€Component Emitters in Whiteâ€Emitting PLEDs. Chemistry - an Asian Journal, 2012, 7, 2096-2101.	3.3	11

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127	Improved Photovoltaic Performance of a Sideâ€Chain Dâ€“A Polymer in Polymer Solar Cells by Shortening the Phenyl Spacer between the D and A Units. Macromolecular Chemistry and Physics, 2014, 215, 2075-2083.	2.2	11
128	Synthesis, characterization and photovoltaic properties of two-dimensional conjugated polybenzodithiophene derivatives appending diketopyrrolopyrrole units as side chain. Polymer, 2014, 55, 4857-4864.	3.8	11
129	Benzodi(pyridothiophene): a novel acceptor unit for application in A₁â€“Aâ€“A₁ type photovoltaic small molecules. Physical Chemistry Chemical Physics, 2016, 18, 1507-1515.	2.8	11
130	Medium-Bandgap (Acceptorâ€²â€“Donor)2Acceptor-Type Small-Molecule Donors Based on an Asymmetric Thieno[3,2-c]isochromene Building Block for Organic Solar Cells with High Efficiency and Voltage. ACS Applied Energy Materials, 2019, 2, 4730-4736.	5.1	11
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132	Synergy strategy to the flexible alkyl and chloride side-chain engineered quinoxaline-based Dâ€“A conjugated polymers for efficient non-fullerene polymer solar cells. Materials Chemistry Frontiers, 2021, 5, 1906-1916.	5.9	11
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