

Yu Liu

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Ester side chains engineered quinoxaline based D-A copolymers for high-efficiency all-polymer solar cells. <i>Chemical Engineering Journal</i> , 2022, 429, 132551.	12.7	16
2	Chloride side-chain engineered quinoxaline-based D-A copolymer enabling non-fullerene organic solar cells with over 16% efficiency. <i>Chemical Engineering Journal</i> , 2022, 437, 135182.	12.7	19
3	Iridium Complexes Embedding Rigid D-A-Type Coordinated Cores: Facile Synthesis and High-Efficiency Near-Infrared Emission in Solution-Processed Polymer Light-Emitting Diodes. <i>Journal of Organometallic Chemistry</i> , 2021, 931, 121615.	1.8	6
4	Synergy strategy to the flexible alkyl and chloride side-chain engineered quinoxaline-based D-A conjugated polymers for efficient non-fullerene polymer solar cells. <i>Materials Chemistry Frontiers</i> , 2021, 5, 1906-1916.	5.9	11
5	Wide-Band Gap Small-Molecule Donors with Diester-Terthiophene Bridged Units for High-Efficiency All-Small-Molecule Organic Solar Cells. <i>ACS Applied Energy Materials</i> , 2021, 4, 5868-5876.	5.1	7
6	Fluorine functionalized asymmetric indo [2,3-b]quinoxaline framework based D-A copolymer for fullerene polymer solar cells. <i>Organic Electronics</i> , 2021, 95, 106194.	2.6	3
7	Double-hydrogen-bond solid additives to improve morphology, efficiency and stability of fullerene OSCs. <i>Dyes and Pigments</i> , 2021, 194, 109670.	3.7	1
8	An effective strategy to obtain near-infrared emission from shoulder to shoulder-type binuclear platinum(II) complexes based on fused pyrene core bridged isoquinoline ligands. <i>Journal of Materials Chemistry C</i> , 2021, 9, 2282-2290.	5.5	8
9	A small-molecule donor with a thieno[3,2-c]isochromene unit to synchronously improve the efficiency and stability of ternary fullerene organic solar cells. <i>Sustainable Energy and Fuels</i> , 2021, 5, 6406-6413.	4.9	1
10	Zirconium-Doped Zinc Oxide Nanoparticles as Cathode Interfacial Layers for Efficiently Rigid and Flexible Organic Solar Cells. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 10616-10621.	4.6	11
11	Deep Red Iridium(III) Complexes Based on Pyrene-Substituted Quinoxaline Ligands for Solution-Processed Phosphorescent Organic Light-Emitting Diodes. <i>Inorganic Chemistry</i> , 2020, 59, 332-342.	4.0	24
12	Tuning terminal units to improve the photovoltaic performance of small molecules based on a large planar fused-ring core in solution-processed organic solar cells. <i>Organic Electronics</i> , 2020, 78, 105566.	2.6	6
13	A feasible approach to obtain near-infrared (NIR) emission from binuclear platinum(II) complexes containing centrosymmetric isoquinoline ligand in PLEDs. <i>Organic Electronics</i> , 2020, 87, 105902.	2.6	8
14	Low-cost donors based on a dicarboxylic ester side-chain substituted thieno[3,2b]thiophene unit for efficient polymer solar cells. <i>Dyes and Pigments</i> , 2020, 182, 108698.	3.7	7
15	An Effective Approach to Obtain Near-Infrared Emission from Binuclear Platinum(II) Complexes Involving Thiophenpyridine-Isoquinoline Bridging Ligand in Solution-Processed OLEDs. <i>Chemistry - an Asian Journal</i> , 2020, 15, 3003-3012.	3.3	3
16	Boosting the efficiency of PTB7-Th:PC ₇₁ BM polymer solar cells via a low-cost halogen-free supramolecular solid additive. <i>Journal of Materials Chemistry C</i> , 2020, 8, 16551-16560.	5.5	16
17	Boosting Efficiency of Near-Infrared Emitting Iridium(III) Phosphors by Administering Their Core-Shell Structure in Solution-Processed OLEDs. <i>Advanced Optical Materials</i> , 2020, 8, 2000154.	7.3	62
18	More efficient spin-orbit coupling: adjusting the ligand field strength to the second metal ion in asymmetric binuclear platinum(II) configurations. <i>Dalton Transactions</i> , 2020, 49, 8722-8733.	3.3	14

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19	Enhancement the photovoltaic performance of conjugated polymer based on simple head-to-head alkylthio side chains engineered bithiophene. Chinese Chemical Letters, 2020, 31, 2459-2464.	9.0	6
20	π-π and π-π conjugation induced NIR-emitting iridium(III) 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
21	A novel AH-D-A-type phase junction material to improve photovoltaic performance and device stability in fullerene OSCs. Chinese Chemical Letters, 2020, 31, 2452-2458.	9.0	4
22	Improving the photovoltaic performance of fluorinated 2,2'-bithiophene core-based D(Ar) ₂ type small molecules via strategically end-capped heteroaromatic substitution. Journal of Materials Chemistry C, 2019, 7, 12217-12230.	5.5	9
23	An effective heteroatom-substituted strategy on photovoltaic properties of D(Ar) ₂ small molecules for efficient organic solar cells. Dyes and Pigments, 2019, 170, 107595.	3.7	8
24	Simple-Structured NIR-Absorbing Small-Molecule Acceptors with a Thiazolothiazole Core: Multiple Noncovalent Conformational Locks and D-A Effect for Efficient OSCs. ACS Applied Materials & Interfaces, 2019, 11, 48128-48133.	8.0	50
25	Tuning the central donor core via intramolecular noncovalent interactions based on D(Ar) ₂ type small molecules for high performance organic solar cells. Solar Energy, 2018, 161, 138-147.	6.1	20
26	Efficient near-infrared emission of π-extended cyclometalated iridium complexes based on pyrene in solution-processed polymer light-emitting diode. Chemical Physics Letters, 2018, 699, 99-106.	2.6	23
27	Near-infrared emission of dinuclear iridium complexes with hole/electron transporting bridging and their monomer in solution-processed organic light-emitting diodes. Dyes and Pigments, 2018, 149, 315-322.	3.7	37
28	Efficient chemical structure and device engineering for achieving difluorinated 2,2'-bithiophene-based small molecular organic solar cells with 9.0% efficiency. Journal of Materials Chemistry A, 2018, 6, 12493-12505.	10.3	23
29	Adjusted photovoltaic performance of tetrafluorobenzene-based small molecules by tailoring with different arm of acceptor units. Dyes and Pigments, 2018, 158, 402-411.	3.7	11
30	Synthesis and optoelectronic properties of dinuclear cyclometalated platinum (II) complexes containing naphthalene-functionalized carbazole groups in the single-emissive-layer WPLEDs. Journal of Organometallic Chemistry, 2017, 835, 52-59.	1.8	7
31	Dual phosphorescence emission of dinuclear platinum(II) complex incorporating cyclometallating pyrenyl-dipyridine-based ligand and its application in near-infrared solution-processed polymer light-emitting diodes. Dalton Transactions, 2017, 46, 16257-16268.	3.3	18
32	Efficient strategies to improve photovoltaic performance of A-D-A type small molecules by introducing rigidly fluorinated central cores. Dyes and Pigments, 2017, 147, 505-513.	3.7	16
33	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
34	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
35	Synthesis and optoelectronic properties of dinuclear iridium (III) complexes containing deep blue fluorescence chromophore in the single-emissive-layer WPLEDs. Tetrahedron, 2016, 72, 8542-8549.	1.9	7
36	Dinuclear cyclometalated platinum(II) complexes containing a deep blue fluorescence chromophore: synthesis, photophysics and application in single dopant white PLEDs. Dalton Transactions, 2016, 45, 14131-14140.	3.3	7

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37	Improved photovoltaic performance of D-type small molecules with isoindigo and pyrene units by inserting different π -conjugated bridge. <i>Tetrahedron</i> , 2016, 72, 4543-4549.	1.9	5
38	Starburst Triphenylamine-Based Donor-Acceptor Type Small Molecules for Solution-Processed Organic Solar Cells. <i>European Journal of Organic Chemistry</i> , 2016, 2016, 799-805.	2.4	6
39	Enhancing the photovoltaic properties of low bandgap terpolymers based on benzodithiophene and phenanthrophenazine by introducing different second acceptor units. <i>Polymer Chemistry</i> , 2016, 7, 1747-1755.	3.9	20
40	Synthesis and photovoltaic performance of DPP-based small molecules with tunable energy levels by altering the molecular terminals. <i>Dyes and Pigments</i> , 2016, 125, 151-158.	3.7	20
41	Highly Efficient Near-Infrared Delayed Fluorescence Organic Light Emitting Diodes Using a Phenanthrene-Based Charge-Transfer Compound. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 13068-13072.	13.8	500
42	Polymer light-emitting devices based on europium(III) complex with 11-bromo-dipyrido[3,2-a:2',3'-c]phenazine. <i>Science China Chemistry</i> , 2015, 58, 1152-1158.	8.2	5
43	Efficient strategies to improve photovoltaic performance of linear-shape molecules by introducing large planar aryls in molecular center and terminals. <i>Organic Electronics</i> , 2015, 17, 198-207.	2.6	18
44	Acceptor-donor-acceptor small molecules containing benzo[1,2-b:4,5-b']dithiophene and rhodanine units for solution processed organic solar cells. <i>Dyes and Pigments</i> , 2015, 116, 13-19.	3.7	31
45	Benzodithiophene-based two-dimensional polymers with extended conjugated thienyltriphenylamine substituents for high-efficiency polymer solar cells. <i>Organic Electronics</i> , 2015, 23, 124-132.	2.6	16
46	Enhancing the photovoltaic properties of terpolymers containing benzo[1,2-b:4,5-b']dithiophene, phenanthro[4,5-abc]phenazine and benzo[c][1,2,5]thiadiazole by changing the substituents. <i>Journal of Materials Chemistry C</i> , 2015, 3, 6240-6248.	5.5	40
47	Synthesis and photovoltaic properties of two star-shaped molecules involving phenylquinoxaline as core and triphenylamine and thiophene units as arms. <i>Synthetic Metals</i> , 2015, 204, 25-31.	3.9	7
48	Improved photovoltaic performance of a 2D-conjugated benzodithiophene-based polymer by the side chain engineering of quinoxaline. <i>Polymer Chemistry</i> , 2015, 6, 4290-4298.	3.9	29
49	Significantly increasing open-circuit voltage of the benzo[1,2-b:4,5-b']dithiophene-alt-5,8-dithienyl-quinoxaline copolymers based PSCs by appending dioctyloxy chains at 6,7-positions of quinoxaline. <i>Organic Electronics</i> , 2015, 17, 129-137.	2.6	28
50	Significantly improved photovoltaic performance of the triangular-spiral TPA(DPP-PN) ₃ by appending planar phenanthrene units into the molecular terminals. <i>Journal of Materials Chemistry A</i> , 2015, 3, 886-893.	10.3	47
51	Improved Photovoltaic Performance of a Side-Chain D-A Polymer in Polymer Solar Cells by Shortening the Phenyl Spacer between the D and A Units. <i>Macromolecular Chemistry and Physics</i> , 2014, 215, 2075-2083.	2.2	11
52	Red polymer light-emitting devices based on an oxadiazole-functionalized europium(III) complex. <i>Materials Chemistry and Physics</i> , 2014, 143, 1265-1270.	4.0	27
53	Synthesis and optoelectronic properties of novel fluorene-bridged dinuclear cyclometalated iridium(III) complex with D-A framework in the single-emissive-layer WOLEDs. <i>Organic Electronics</i> , 2014, 15, 2942-2949.	2.6	21
54	Donor-acceptor copolymers based on benzo[1,2-b:4,5-b']dithiophene and pyrene-fused phenazine for high-performance polymer solar cells. <i>Organic Electronics</i> , 2014, 15, 3375-3383.	2.6	44

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55	A novel near-infrared-emitting cyclometalated platinum (II) complex with donor-acceptor-acceptor chromophores. <i>Dyes and Pigments</i> , 2014, 107, 146-152.	3.7	35
56	D-A-Ar-type small molecules with enlarged π -system of phenanthrene at terminal for high-performance solution processed organic solar cells. <i>Organic Electronics</i> , 2014, 15, 1173-1183.	2.6	38
57	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. <i>Science China Chemistry</i> , 2013, 56, 1137-1142.	8.2	14
58	A pyridine-functionalized pyrazolinofullerene used as a buffer layer in polymer solar cells. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 17076.	2.8	15
59	Synthesis, optoelectronic properties of a dinuclear platinum(II) complex containing a binary cyclometalated ligand in the single-emissive-layer PLEDs. <i>Dalton Transactions</i> , 2013, 42, 1231-1237.	3.3	19
60	A new donor-acceptor-donor ternary copolymer pending additional diketopyrrolopyrrole unit in the side of a donor for efficient solar cells. <i>Organic Electronics</i> , 2013, 14, 1510-1515.	2.6	16
61	A Novel Benzo[1,2-b:4,5-b']dithiophene-Based Conjugated Polymer with a Pendant Diketopyrrolopyrrole Unit for High-Performance Solar Cells. <i>Macromolecules</i> , 2013, 46, 113-118.	4.8	74
62	Conjugated and nonconjugated bipolar-transporting dinuclear europium(III) complexes involving triphenylamine and oxadiazole units: synthesis, photophysical and electroluminescent properties. <i>Tetrahedron</i> , 2013, 69, 4679-4686.	1.9	8
63	Reduced-bandgap triphenylamine-benzo[1,2-b:4,5-b']dithiophene copolymers pending benzothiadiazole or diketopyrrolopyrrole units for efficient polymer solar cells. <i>Journal of Polymer Science Part A</i> , 2013, 51, 4103-4110.	2.3	15
64	Synthesis and optoelectronic properties of a heterobimetallic Pt(II)-Ir(III) complex used as a single-component emitter in white PLEDs. <i>Dalton Transactions</i> , 2012, 41, 2972.	3.3	27
65	Dinuclear cyclometalated platinum (II) complexes: Synthesis, photophysics, and monomolecular electroluminescence. <i>Organic Electronics</i> , 2012, 13, 1646-1653.	2.6	10
66	Tuning photovoltaic performance of 9,9-dioctylfluorene-5,7-bis(thiophen-2-yl)-2,3-biphenylthieno[3,4-b]pyrazine copolymeric derivatives by attaching additional donor units in pendant phenyl ring. <i>Journal of Polymer Science Part A</i> , 2012, 50, 4686-4694.	2.3	14
67	Improving optoelectronic properties of the 2,7-polyfluorene derivatives with carbazole and oxadiazole pendants by incorporating the blue-emitting iridium complex pendants in Θ position of fluorine unit. <i>Journal of Polymer Science Part A</i> , 2012, 50, 149-155.	2.3	12
68	Polyfluorene derivatives pending iridium complexes: Improved optoelectronic properties by introducing D-A units and altering pendent mode. <i>Journal of Polymer Science Part A</i> , 2012, 50, 1900-1905.	2.3	10
69	Star-Shaped Trinuclear Cyclometalated Platinum(II) Complexes as Single-Component Emitters in White-Emitting PLEDs. <i>Chemistry - an Asian Journal</i> , 2012, 7, 2096-2101.	3.3	11
70	Bipolar-transporting dinuclear europium(III) complexes involving carbazole and oxadiazole units: Synthesis, photophysical and electroluminescent properties. <i>Dyes and Pigments</i> , 2012, 95, 322-329.	3.7	8
71	Highly efficient near-infrared emission from binuclear cyclo-metalated platinum complexes bridged with 5-(4-octyloxyphenyl)-1,3,4-oxadiazole-2-thiol in PLEDs. <i>Organic Electronics</i> , 2012, 13, 932-937.	2.6	64
72	High-efficiency red electroluminescence from europium complex containing a neutral dipyrido(3,2-a:2',3'-c)phenazine ligand in PLEDs. <i>Organic Electronics</i> , 2012, 13, 1038-1043.	2.6	25

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73	Synthesis and Optoelectronic Characterization of a Monochromic Red-Emitting Europium(III) Complex Containing Triphenylamine-Functionalized Phenanthroline. <i>Journal of Physical Chemistry C</i> , 2011, 115, 4209-4216.	3.1	54
74	D-A-based polyfluorene derivatives end-capped with cyclometalated iridium complexes by unconjugated linkage: Structure-property relationships. <i>Polymer</i> , 2011, 52, 4792-4797.	3.8	9
75	Metallomesogens based on platinum(ii) complexes: synthesis, luminescence and polarized emission. <i>Dalton Transactions</i> , 2011, 40, 5046.	3.3	60
76	Synthesis and Optoelectronic Properties of a Red-Emitting Heteroleptic Platinum Complex Using Pyrazolone-based Diketone Derivative as Ancillary Ligand. <i>Chinese Journal of Chemistry</i> , 2011, 29, 2057-2062.	4.9	7
77	Single-layer white polymer light-emitting diodes based on an iridium (III) complex containing alkyltrifluorene picolinic acid. <i>Dyes and Pigments</i> , 2011, 91, 495-500.	3.7	13
78	White emission from dinuclear cyclometalated platinum(II) complex in single-emitting layer PLEDs. <i>Tetrahedron</i> , 2011, 67, 2118-2124.	1.9	21
79	Synthesis, optophysical and electrochemical properties of bipolar-transporting europium(III) complexes with carbazole and oxadiazole units. <i>Tetrahedron</i> , 2010, 66, 7411-7417.	1.9	18
80	Novel cyclometalated platinum (II) complex containing alkyl-trifluorene picolinic acid as emitter for single-layer white PLEDs. <i>Organic Electronics</i> , 2010, 11, 1954-1959.	2.6	30
81	Synthesis, opto-physics, and electroluminescence of cyclometalated iridium (III) complex with alkyltrifluorene picolinic acid. <i>Tetrahedron</i> , 2010, 66, 1483-1488.	1.9	20
82	Highly efficient sharp red electroluminescence from europium complex-doped poly(9,9-dioctylfluorene) devices. <i>Chemical Physics Letters</i> , 2007, 433, 331-334.	2.6	33
83	π-Conjugated Aromatic Enynes as a Single-Emitting Component for White Electroluminescence. <i>Journal of the American Chemical Society</i> , 2006, 128, 5592-5593.	13.7	479