

Yunfeng Deng

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Diketopyrrolopyrrole-based conjugated polymers synthesized by direct arylation polycondensation for anisole-processed high mobility organic thin-film transistors. <i>Journal of Materials Chemistry C</i> , 2022, 10, 2616-2622.	5.5	11
2	A nitroaromatic cathode with an ultrahigh energy density based on six-electron reaction per nitro group for lithium batteries. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	7.1	23
3	Unraveling the Molar Mass Dependence of Shearing-Induced Aggregation Structure of a High-Mobility Polymer Semiconductor. <i>Advanced Materials</i> , 2022, 34, e2108255.	21.0	43
4	Fusing Thienoisindigo to the Conjugated Ribbons with Strong Absorption in the Second Near-Infrared Window. <i>CCS Chemistry</i> , 2022, 4, 3497-3504.	7.8	11
5	A Mixed-Ligand Strategy to Modulate P3HT Regioregularity for High-Efficiency Solar Cells. <i>Macromolecules</i> , 2022, 55, 3078-3086.	4.8	26
6	Simple Polythiophene Solar Cells Approaching 10% Efficiency via Carbon Chain Length Modulation of Poly(3-alkylthiophene). <i>Macromolecules</i> , 2022, 55, 133-145.	4.8	33
7	n-Type conjugated polymers comprising bithiophene imide and multifluorinated thiophene moieties synthesized by direct arylation polycondensation. <i>Journal of Materials Chemistry C</i> , 2022, 10, 13905-13912.	5.5	3
8	Polyurethane-Based Stretchable Semiconductor Nanofilms with High Intrinsic Recovery Similar to Conventional Elastomers. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 33806-33816.	8.0	13
9	n-Type Conjugated Polymers Based on an Indandione-Terminated Quinoidal Building Block. <i>Macromolecules</i> , 2022, 55, 5975-5984.	4.8	14
10	High-yield and sustainable synthesis of quinoidal compounds assisted by keto-enol tautomerism. <i>Chemical Science</i> , 2021, 12, 9366-9371.	7.4	10
11	Direct Arylation Polycondensation toward Water/Alcohol-Soluble Conjugated Polymers: Influence of Side Chain Functional Groups. <i>ACS Macro Letters</i> , 2021, 10, 419-425.	4.8	10
12	Low-Band gap Conjugated Polymers with Strong Absorption in the Second Near-Infrared Region Based on Diketopyrrolopyrrole-Containing Quinoidal Units. <i>Macromolecules</i> , 2021, 54, 3498-3506.	4.8	25
13	Low-bandgap conjugated polymers based on benzodipyrrolidone with reliable unipolar electron mobility exceeding $1 \text{ cm}^2 \text{ V}^{-1} \text{ s}^{-1}$. <i>Science China Chemistry</i> , 2021, 64, 1219-1227.	8.2	19
14	Reconfigurable Multifunctional Ambipolar Polymer Blend Transistors with Improved Switching-Off Capability. <i>Advanced Functional Materials</i> , 2021, 31, 2103369.	14.9	13
15	High T_g Polymer Insulator Yields Organic Photovoltaic Blends with Superior Thermal Stability at 150°C . <i>Chinese Journal of Chemistry</i> , 2021, 39, 2570-2578.	4.9	20
16	Toward High Mobility Green Solvent-Processable Conjugated Polymers: A Systematic Study on Chalcogen Effect in Poly(Diketopyrrolopyrrole- <i>ter</i> chalcogenophene)s. <i>Advanced Functional Materials</i> , 2021, 31, 2104881.	14.9	28
17	Calculation aided miscibility manipulation enables highly efficient polythiophene:nonfullerene photovoltaic cells. <i>Science China Chemistry</i> , 2021, 64, 478-487.	8.2	43
18	Synthesis of low-bandgap small molecules by extending the π -conjugation of the termini in quinoidal compounds. <i>Journal of Materials Chemistry C</i> , 2021, 9, 2054-2062.	5.5	8

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19	Tuning the molar mass of P3HT <i>via</i> direct arylation polycondensation yields optimal interaction and high efficiency in nonfullerene organic solar cells. <i>Journal of Materials Chemistry A</i> , 2021, 9, 19874-19885.	10.3	31
20	Indandione-Terminated Quinoidal Compounds for Low-Bandgap Small Molecules with Strong Near-Infrared Absorption: Effect of Conjugation Length on the Properties. <i>Chemistry - A European Journal</i> , 2021, 27, 17437-17443.	3.3	8
21	Simultaneous Enhancement of Stretchability, Strength, and Mobility in Ultrahigh-Molecular-Weight Poly(indacenodithiophene-co-benzothiadiazole). <i>Macromolecules</i> , 2021, 54, 9896-9905.	4.8	28
22	Indandione-Terminated Quinoids: Facile Synthesis by Alkoxide-Mediated Rearrangement Reaction and Semiconducting Properties. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 221-225.	13.8	41
23	Indandione-Terminated Quinoids: Facile Synthesis by Alkoxide-Mediated Rearrangement Reaction and Semiconducting Properties. <i>Angewandte Chemie</i> , 2020, 132, 227-231.	2.0	7
24	Experimental and theoretical insights into kinetics and mechanisms of hydroxyl and sulfate radicals-mediated degradation of sulfamethoxazole: Similarities and differences. <i>Environmental Pollution</i> , 2020, 259, 113795.	7.5	37
25	Bar-Coated Organic Thin-Film Transistors with Reliable Electron Mobility Approaching $10 \text{ cm}^2 \text{ V}^{-1} \text{ s}^{-1}$. <i>Advanced Electronic Materials</i> , 2020, 6, 1901002.	5.1	32
26	Direct Arylation Polycondensation of Chlorinated Thiophene Derivatives to High-Mobility Conjugated Polymers. <i>Macromolecules</i> , 2020, 53, 10147-10154.	4.8	27
27	Impact of Molecular Weight on the Mechanical and Electrical Properties of a High-Mobility Diketopyrrolopyrrole-Based Conjugated Polymer. <i>Macromolecules</i> , 2020, 53, 4490-4500.	4.8	85
28	Optimization Requirements of Efficient Polythiophene:Nonfullerene Organic Solar Cells. <i>Joule</i> , 2020, 4, 1278-1295.	24.0	133
29	Electronic properties modulation of tetraoxidothieno[3,2- <i>b</i>]thiophene-based quinoidal compounds by terminal fluorination. <i>Materials Chemistry Frontiers</i> , 2020, 4, 891-898.	5.9	10
30	Design strategies of n-type conjugated polymers for organic thin-film transistors. <i>Materials Chemistry Frontiers</i> , 2019, 3, 1932-1951.	5.9	97
31	Synthesis of an isomerically pure thienoquinoid for unipolar n-type conjugated polymers: effect of backbone curvature on charge transport performance. <i>Journal of Materials Chemistry C</i> , 2019, 7, 10352-10359.	5.5	24
32	A Simple Structure Conjugated Polymer for High Mobility Organic Thin Film Transistors Processed from Nonchlorinated Solvent. <i>Advanced Science</i> , 2019, 6, 1902412.	11.2	43
33	Catalyst-Free One-Pot Synthesis of Unsymmetrical Five- and Six-Membered Sulfur-Annulated Heterocyclic Perylene Diimides for Electron-Transporting Property. <i>Organic Letters</i> , 2019, 21, 5529-5532.	4.6	28
34	Time-Resolved and Self-Adjusting Hybrid Functional Fabric Sensor for Decoupling Multiple Stimuli from Bending. <i>Advanced Materials Technologies</i> , 2019, 4, 1900290.	5.8	7
35	Diketopyrrolopyrrole-based small molecules for solution-processed n-channel organic thin film transistors. <i>Journal of Materials Chemistry C</i> , 2019, 7, 13939-13946.	5.5	21
36	Fused Isoindigo Ribbons with Absorption Bands Reaching Near-Infrared. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 10283-10287.	13.8	31

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37	Ï€-Conjugation expanded isoindigo derivatives and the donor-acceptor conjugated polymers: synthesis and characterization. <i>Chemical Communications</i> , 2018, 54, 782-785.	4.1	19
38	Fused Isoindigo Ribbons with Absorption Bands Reaching Near-Infrared. <i>Angewandte Chemie</i> , 2018, 130, 10440-10444.	2.0	10
39	n-Type conjugated polymers based on 3,3'-dicyano-2,2'-bithiophene: synthesis and semiconducting properties. <i>Journal of Materials Chemistry C</i> , 2018, 6, 12896-12903.	5.5	21
40	Conjugated Polymers Based on Thiazole Flanked Naphthalene Diimide for Unipolar n-Type Organic Field-Effect Transistors. <i>Chemistry of Materials</i> , 2018, 30, 8343-8351.	6.7	30
41	High Mobility Ambipolar Diketopyrrolopyrrole-Based Conjugated Polymers Synthesized via Direct Arylation Polycondensation: Influence of Thiophene Moieties and Side Chains. <i>Macromolecules</i> , 2018, 51, 8752-8760.	4.8	56
42	Donor-Acceptor Conjugated Polymers Based on Bisisoindigo: Energy Level Modulation toward Unipolar n-Type Semiconductors. <i>Macromolecules</i> , 2018, 51, 8652-8661.	4.8	36
43	Volatile Organic Compounds: Chemically Modified Polyaniline for the Detection of Volatile Biomarkers of Minimal Sensitivity to Humidity and Bending (<i>Adv. Healthcare Mater.</i> 15/2018). <i>Advanced Healthcare Materials</i> , 2018, 7, 1870059.	7.6	1
44	Diketopyrrolopyrrole-Based Conjugated Polymers Synthesized via Direct Arylation Polycondensation for High Mobility Pure n-Channel Organic Field-Effect Transistors. <i>Advanced Functional Materials</i> , 2018, 28, 1801097.	14.9	92
45	Donor-Acceptor Conjugated Polymers Based on Indacenodithiophene Derivative Bridged Diketopyrrolopyrroles: Synthesis and Semiconducting Properties. <i>Macromolecules</i> , 2017, 50, 2344-2353.	4.8	36
46	Multifluorination toward High-Mobility Ambipolar and Unipolar n-Type Donor-Acceptor Conjugated Polymers Based on Isoindigo. <i>Advanced Materials</i> , 2017, 29, 1606217.	21.0	172
47	Thiophene-dioxidized Indophenine: A Quinoid-Type Building Block with High Electron Affinity for Constructing n-Type Polymer Semiconductors with Narrow Band Gaps. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 3459-3462.	13.8	80
48	Thiophene-S,S-dioxidized indophenine (IDTO) based donor-acceptor polymers for n-channel organic thin film transistors. <i>RSC Advances</i> , 2016, 6, 34849-34854.	3.6	22
49	Thiophene-S,S-dioxidized indophenines as high performance n-type organic semiconductors for thin film transistors. <i>RSC Advances</i> , 2016, 6, 45410-45418.	3.6	13
50	3,7-Bis((E)-2-oxoindolin-3-ylidene)-3,7-dihydrobenzo[1,2-b:4,5-b']dithiophene-2,6-dione (IBDT) based polymer with balanced ambipolar charge transport performance. <i>Organic Electronics</i> , 2016, 35, 41-46.	2.6	11
51	Thiophene-dioxidized Indophenine: A Quinoid-Type Building Block with High Electron Affinity for Constructing n-Type Polymer Semiconductors with Narrow Band Gaps. <i>Angewandte Chemie</i> , 2016, 128, 3520-3523.	2.0	66
52	Isoindigo-based low bandgap conjugated polymer for o-xylene processed efficient polymer solar cells with thick active layers. <i>Journal of Materials Chemistry A</i> , 2015, 3, 19928-19935.	10.3	19
53	Dithienocarbazole- and benzothiadiazole-based donor-acceptor conjugated polymers for bulk heterojunction polymer solar cells. <i>Science China Chemistry</i> , 2015, 58, 294-300.	8.2	5
54	(3E,8E)-3,8-Bis(2-oxoindolin-3-ylidene)naphtho-[1,2-b:5,6-b']difuran-2,7(3H,8H)-dione (INDF) based polymers for organic thin-film transistors with highly balanced ambipolar charge transport characteristics. <i>Chemical Communications</i> , 2015, 51, 13515-13518.	4.1	35

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55	Low bandgap conjugated polymers based on mono-fluorinated isoindigo for efficient bulk heterojunction polymer solar cells processed with non-chlorinated solvents. <i>Energy and Environmental Science</i> , 2015, 8, 585-591.	30.8	70
56	Dithienocarbazole and Isoindigo based Amorphous Low Bandgap Conjugated Polymers for Efficient Polymer Solar Cells. <i>Advanced Materials</i> , 2014, 26, 471-476.	21.0	191
57	Low-Band-Gap Conjugated Polymers of Dithieno[2,3- <i>b</i> :7,6- <i>b'</i>]carbazole and Diketopyrrolopyrrole: Effect of the Alkyl Side Chain on Photovoltaic Properties. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 5741-5747.	8.0	37
58	Donor-acceptor Conjugated Polymers with Dithienocarbazoles as Donor Units: Effect of Structure on Semiconducting Properties. <i>Macromolecules</i> , 2012, 45, 8621-8627.	4.8	87
59	A feasibly synthesized ladder-type conjugated molecule as the novel high mobility n-type organic semiconductor. <i>Journal of Materials Chemistry</i> , 2010, 20, 7998.	6.7	41