Yang Han

List of Publications by Year
in descending order

22 papers	1,212 citations	516710 16 h-index	677142 22 g-index
22 all docs	22 docs citations	22 times ranked	1682 citing authors

#	Article	IF	Citations
1	Diketopyrrolopyrrole-based conjugated polymers synthesized by direct arylation polycondensation for anisole-processed high mobility organic thin-film transistors. Journal of Materials Chemistry C, 2022, 10, 2616-2622.	5.5	11
2	Unraveling the Molar Mass Dependence of Shearingâ€Induced Aggregation Structure of a Highâ€Mobility Polymer Semiconductor. Advanced Materials, 2022, 34, e2108255.	21.0	43
3	Extending the p-Doping of Polymers to an Air Stable Lewis Acidâ€“Base Adduct by Increasing the Acidity of the Dopant. ACS Applied Polymer Materials, 2022, 4, 3877-3884.	4.4	11
4	Chlorinated Conjugated Polymer Based on Chlorineâ€and Cyanoâ€substituted (E)â€1,<scp>2â€Di</scp>(thiophenâ€2â€yl)ethane for Ambipolar and <scp>nâ€Type</scp> Organic Thinâ€film Transistors. Chinese Journal of Chemistry, 2022, 40, 1957-1963.	4.1	7
5	High-Performance Unipolar n-Type Conjugated Polymers Enabled by Highly Electron-Deficient Building Blocks Containing F and CN Groups. Macromolecules, 2022, 55, 4429-4440.	4.8	16
6	Polyurethane-Based Stretchable Semiconductor Nanofilms with High Intrinsic Recovery Similar to Conventional Elastomers. ACS Applied Materials & Interfaces, 2022, 14, 33806-33816.	8.0	13
7	Low-Band gap Conjugated Polymers with Strong Absorption in the Second Near-Infrared Region Based on Diketopyrrolopyrrole-Containing Quinoidal Units. Macromolecules, 2021, 54, 3498-3506.	4.8	25
8	Toward High Mobility Green Solventâ€Processable Conjugated Polymers: A Systematic Study on Chalcogen Effect in Poly(Diketopyrrolopyrroleâ€altâ€Terchalcogenophene)s. Advanced Functional Materials, 2021, 31, 2104881.	14.9	28
9	Indandioneâ€Terminated Quinoidal Compounds for Lowâ€Bandgap Small Molecules with Strong Nearâ€Infrared Absorption: Effect of Conjugation Length on the Properties. Chemistry - A European Journal, 2021, 27, 17437-17443.	3.3	8
10	Simultaneous Enhancement of Stretchability, Strength, and Mobility in Ultrahigh-Molecular-Weight Poly(indacenodithiophene-co-benzothiadiazole). Macromolecules, 2021, 54, 9896-9905.	4.8	28
11	Barâ€Coated Organic Thinâ€Film Transistors with Reliable Electron Mobility Approaching 10 cm² V^{â^'1} s^{â^'1}. Advanced Electronic Materials, 2020, 6, 1901002.	5.1	32
12	Direct Arylation Polycondensation of Chlorinated Thiophene Derivatives to High-Mobility Conjugated Polymers. Macromolecules, 2020, 53, 10147-10154.	4.8	27
13	Multibranched aliphatic side chains for Ï€-conjugated polymers with a high density of â€˜unshieldedâ€™ aromatics. Chemical Communications, 2020, 56, 12138-12141.	4.1	6
14	Impact of Molecular Weight on the Mechanical and Electrical Properties of a High-Mobility Diketopyrrolopyrrole-Based Conjugated Polymer. Macromolecules, 2020, 53, 4490-4500.	4.8	85
15	A Simple Structure Conjugated Polymer for High Mobility Organic Thin Film Transistors Processed from Nonchlorinated Solvent. Advanced Science, 2019, 6, 1902412.	11.2	43
16	Diketopyrrolopyrrole-based small molecules for solution-processed n-channel organic thin film transistors. Journal of Materials Chemistry C, 2019, 7, 13939-13946.	5.5	21
17	n-Type conjugated polymers based on 3,3â€²-dicyano-2,2â€²-bithiophene: synthesis and semiconducting properties. Journal of Materials Chemistry C, 2018, 6, 12896-12903.	5.5	21
18	High Mobility Ambipolar Diketopyrrolopyrrole-Based Conjugated Polymers Synthesized via Direct Arylation Polycondensation: Influence of Thiophene Moieties and Side Chains. Macromolecules, 2018, 51, 8752-8760.	4.8	56

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19	Donorâ€“Acceptor Conjugated Polymers Based on Bisisoindigo: Energy Level Modulation toward Unipolar n-Type Semiconductors. Macromolecules, 2018, 51, 8652-8661.	4.8	36
20	Recent Progress in Highâ€Mobility Organic Transistors: A Reality Check. Advanced Materials, 2018, 30, e1801079.	21.0	498
21	Diketopyrrolopyrroleâ€Based Conjugated Polymers Synthesized via Direct Arylation Polycondensation for High Mobility Pure nâ€Channel Organic Fieldâ€Effect Transistors. Advanced Functional Materials, 2018, 28, 1801097.	14.9	92
22	Alkylated Selenophene-Based Ladder-Type Monomers via a Facile Route for High-Performance Thin-Film Transistor Applications. Journal of the American Chemical Society, 2017, 139, 8552-8561.	13.7	105