

Yang Han

List of Publications by Year in descending order

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Version: 2024-02-01

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papers

1,212
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516710

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docs citations

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times ranked

1682
citing authors

#	ARTICLE	IF	CITATIONS
1	Recent Progress in High-Mobility Organic Transistors: A Reality Check. <i>Advanced Materials</i> , 2018, 30, e1801079.	21.0	498
2	Alkylated Selenophene-Based Ladder-Type Monomers via a Facile Route for High-Performance Thin-Film Transistor Applications. <i>Journal of the American Chemical Society</i> , 2017, 139, 8552-8561.	13.7	105
3	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
4	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
5	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
6	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
7	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
8	Donor-Acceptor Conjugated Polymers Based on Bisindigo: Energy Level Modulation toward Unipolar n-Type Semiconductors. <i>Macromolecules</i> , 2018, 51, 8652-8661.	4.8	36
9	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
10	Toward High Mobility Green Solvent-Processable Conjugated Polymers: A Systematic Study on Chalcogen Effect in Poly(Diketopyrrolopyrrole-terchalcogenophene)s. <i>Advanced Functional Materials</i> , 2021, 31, 2104881.	14.9	28
11	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
12	Direct Arylation Polycondensation of Chlorinated Thiophene Derivatives to High-Mobility Conjugated Polymers. <i>Macromolecules</i> , 2020, 53, 10147-10154.	4.8	27
13	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
14	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
15	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
16	High-Performance Unipolar n-Type Conjugated Polymers Enabled by Highly Electron-Deficient Building Blocks Containing F and CN Groups. <i>Macromolecules</i> , 2022, 55, 4429-4440.	4.8	16
17	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
18	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

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19	Extending the p-Doping of Polymers to an Air Stable Lewis Acid-Base Adduct by Increasing the Acidity of the Dopant. ACS Applied Polymer Materials, 2022, 4, 3877-3884.	4.4	11
20	Indandione-Terminated Quinoidal Compounds for Low-Bandgap Small Molecules with Strong Near-Infrared Absorption: Effect of Conjugation Length on the Properties. Chemistry - A European Journal, 2021, 27, 17437-17443.	3.3	8
21	Chlorinated Conjugated Polymer Based on Chlorine- and Cyano-substituted (E)-1,2-di(thiophen-2-yl)ethane for Ambipolar and n-Type Organic Thin-Film Transistors. Chinese Journal of Chemistry, 2022, 40, 1957-1963.		7
22	Multibranched aliphatic side chains for π -conjugated polymers with a high density of unshielded π aromatics. Chemical Communications, 2020, 56, 12138-12141.	4.1	6