Hui Jiang

List of Publications by Year
in descending order

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64 papers	3,130 citations	159585 30 h-index	155660 55 g-index
65 all docs	65 docs citations	65 times ranked	4111 citing authors

#	Article	IF	Citations
1	Highly Stretchable, Elastic, and Ionic Conductive Hydrogel for Artificial Soft Electronics. Advanced Functional Materials, 2019, 29, 1806220.	14.9	602
2	The Emergence of Organic Singleâ€Crystal Electronics. Angewandte Chemie - International Edition, 2020, 59, 1408-1428.	13.8	153
3	Tuning of the degree of charge transfer and the electronic properties in organic binary compounds by crystal engineering: a perspective. Journal of Materials Chemistry C, 2018, 6, 1884-1902.	5.5	149
4	Crystal Growth, HOMOâ€“LUMO Engineering, and Charge Transfer Degree in Perylene-F‹sub›‹i›x‹/i›‹/sub›TCNQ (‹i›x‹/i› = 1, 2, 4) Organic Charge Transfer Binary Compounds. Crystal Growth and Design, 2016, 16, 3019-3027.	3.0	135
5	Charge Transport Properties of Peryleneâ€“TCNQ Crystals: The Effect of Stoichiometry. Journal of Physical Chemistry C, 2014, 118, 24688-24696.	3.1	118
6	Electronic Structure Modulation of Nanoporous Cobalt Phosphide by Carbon Doping for Alkaline Hydrogen Evolution Reaction. Advanced Functional Materials, 2021, 31, 2107333.	14.9	104
7	Cruciforms: Assembling Single Crystal Micro- and Nanostructures from One to Three Dimensions and Their Applications in Organic Field-Effect Transistors. Chemistry of Materials, 2009, 21, 2840-2845.	6.7	103
8	Single-crystal growth of organic semiconductors. MRS Bulletin, 2013, 38, 28-33.	3.5	102
9	Phase dependence of single crystalline transistors of tetrathiafulvalene. Applied Physics Letters, 2007, 91, .	3.3	82
10	Highâ€Performance Organic Singleâ€Crystal Fieldâ€Effect Transistors of Indolo[3,2â€b]carbazole and Their Potential Applications in Gas Controlled Organic Memory Devices. Advanced Materials, 2011, 23, 5075-5080.	21.0	78
11	Fluorination of Metal Phthalocyanines: Single-Crystal Growth, Efficient N-Channel Organic Field-Effect Transistors and Structure-Property Relationships. Scientific Reports, 2014, 4, 7573.	3.3	74
12	Single-crystal growth, structures, charge transfer and transport properties of anthracene-F‹sub›4‹/sub›TCNQ and tetracene-F‹sub›4‹/sub›TCNQ charge-transfer compounds. CrystEngComm, 2017, 19, 618-624.	2.6	70
13	Molecular Crystal Engineering: Tuning Organic Semiconductor from pâ€type to nâ€type by Adjusting Their Substitutional Symmetry. Advanced Materials, 2017, 29, 1605053.	21.0	64
14	Relieving the Photosensitivity of Organic Fieldâ€Effect Transistors. Advanced Materials, 2020, 32, e1906122.	21.0	61
15	Solvent-Dependent Stoichiometry in Peryleneâ€“7,7,8,8-Tetracyanoquinodimethane Charge Transfer Compound Single Crystals. Crystal Growth and Design, 2014, 14, 6376-6382.	3.0	58
16	Dibenzothiophene derivatives as new prototype semiconductors for organic field-effect transistors. Journal of Materials Chemistry, 2007, 17, 1421.	6.7	55
17	Disc-like 7, 14-dicyano-ovalene-3,4:10,11-bis(dicarboximide) as a solution-processible n-type semiconductor for air stable field-effect transistors. Chemical Science, 2012, 3, 846-850.	7.4	54
18	Hole Mobility Modulation in Singleâ€Crystal Metal Phthalocyanines by Changing the Metalâ€“Ï€/Ï€â€“Ï€ Interactions. Angewandte Chemie - International Edition, 2018, 57, 10112-10117.	13.8	54

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19	Atomically Flat, Largeâ€Sized, Twoâ€Dimensional Organic Nanocrystals. Small, 2013, 9, 990-995.	10.0	51
20	Greater than 10â€‰cm²ÂV^{â^'1}Âs^{â^'1}: A breakthrough of organic semiconductors for fieldâ€effect transistors. InformaÄnÃ-MateriÃ¡ly, 2021, 3, 613-630.	17.3	51
21	Versatile roles of silver in Ag-based nanoalloys for antibacterial applications. Coordination Chemistry Reviews, 2021, 449, 214218.	18.8	51
22	Silver-Assisted Thiolate Ligand Exchange Induced Photoluminescent Boost of Gold Nanoclusters for Selective Imaging of Intracellular Glutathione. Chemistry of Materials, 2018, 30, 1947-1955.	6.7	50
23	High-performance five-ring-fused organic semiconductors for field-effect transistors. Chemical Society Reviews, 2022, 51, 3071-3122.	38.1	49
24	Ultrathin organic single crystals: fabrication, field-effect transistors and thickness dependence of charge carrier mobility. Journal of Materials Chemistry, 2011, 21, 4771.	6.7	48
25	From Linear to Angular Isomers: Achieving Tunable Charge Transport in Singleâ€Crystal Indolocarbazoles Through Delicate Synergetic CH/NHâ‹…â‹…â‹…Ï€ Interactions. Angewandte Chemie - International Edition, 2018, 57, 8875-8880.	13.8	44
26	Micro-organic single crystalline phototransistors of 7,7,8,8-tetracyanoquinodimethane and tetrathiafulvalene. Applied Physics Letters, 2009, 94, .	3.3	42
27	Impact of Câ€“HÂ·Â·Â·X (X = F, N) and Ï€â€“Ï€ Interactions on Tuning the Degree of Charge Transfer in F₆TNAP-Based Organic Binary Compound Single Crystals. Crystal Growth and Design, 2018, 18, 1776-1785.	3.0	40
28	Excited-State Dynamics in an Î±-Perylene Single Crystal: Two-Photon- and Consecutive Two-Quantum-Induced Singlet Fission. Journal of Physical Chemistry A, 2014, 118, 838-843.	2.5	39
29	Control of Radiative Exciton Recombination by Charge Transfer Induced Surface Dipoles in MoS2 and WS2 Monolayers. Scientific Reports, 2016, 6, 24105.	3.3	32
30	Adjusting tetrathiafulvalene (TTF) functionality through molecular design for organic field-effect transistors. CrystEngComm, 2014, 16, 5968.	2.6	30
31	Single photon triggered dianion formation in TCNQ and F4TCNQ crystals. Scientific Reports, 2016, 6, 28510.	3.3	30
32	Organicâ€Inorganic Hybrid Perovskite Single Crystals: Crystallization, Molecular Structures, and Bandgap Engineering. ChemNanoMat, 2019, 5, 278-289.	2.8	29
33	Electrodeposition of self-supported NiMo amorphous coating as an efficient and stable catalyst for hydrogen evolution reaction. Rare Metals, 2022, 41, 2624-2632.	7.1	29
34	Trisulfideâ€Bond Acenes for Organic Batteries. Angewandte Chemie - International Edition, 2019, 58, 13513-13521.	13.8	28
35	Gold Nanoclusters for Bacterial Detection and Infection Therapy. Frontiers in Chemistry, 2020, 8, 181.	3.6	28
36	Agent-assisted VSSe ternary alloy single crystals as an efficient stable electrocatalyst for the hydrogen evolution reaction. Journal of Materials Chemistry A, 2019, 7, 15714-15721.	10.3	26

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37	Impurities in zone-refining anthracene crystals. Journal of Crystal Growth, 2013, 363, 61-68.	1.5	25
38	Spin State Tuning of the Octahedral Sites in Niâ€“Co-Based Spinel toward Highly Efficient Urea Oxidation Reaction. Journal of Physical Chemistry C, 2021, 125, 9190-9199.	3.1	25
39	Broadband Photoresponsive Bismuth Halide Hybrid Semiconductors Built with Ï€-Stacked Photoactive Polycyclic Viologen. Inorganic Chemistry, 2021, 60, 5538-5544.	4.0	24
40	Glutathione Induced Transformation of Partially Hollow Goldâ€“Silver Nanocages for Cancer Diagnosis and Photothermal Therapy. Small, 2019, 15, 1902755.	10.0	23
41	Cysteamine: A key to trigger aggregation-induced NIR-II photothermal effect and silver release booming of gold-silver nanocages for synergetic treatment of multidrug-resistant bacteria infection. Chemical Engineering Journal, 2021, 414, 128779.	12.7	20
42	Nanoelectrochemical biosensors for monitoring ROS in cancer cells. Analyst, The, 2020, 145, 1294-1301.	3.5	18
43	Unpacking the toolbox of two-dimensional nanostructures derived from nanosphere templates. Materials Horizons, 2019, 6, 1380-1408.	12.2	16
44	Nanoporous Ni/NiO catalyst for efficient hydrogen evolution reaction prepared by partial electro-oxidation after dealloying. Journal of Alloys and Compounds, 2022, 911, 165061.	5.5	16
45	New composite polymer electrolytes based on room temperature ionic liquids and polyether. Polymers for Advanced Technologies, 2006, 17, 494-499.	3.2	15
46	Self-standing nanoporous NiPd bimetallic electrocatalysts with ultra-low Pd loading for efficient hydrogen evolution reaction. Electrochimica Acta, 2022, 411, 140077.	5.2	15
47	Das Aufkommen der organischen Einkristallelektronik. Angewandte Chemie, 2020, 132, 1424-1445.	2.0	14
48	Epitaxial growth of successive CdSe ultrathin films and quantum dot layers on TiO2 nanorod arrays for photo-electrochemical cells. RSC Advances, 2014, 4, 12154.	3.6	13
49	Organic single crystalline micro- and nanowires field-effect transistors of a tetrathiafulvalene (TTF) derivative with strong Ï€â€“Ï€ orbits and Sâ‹¯S interactions. Synthetic Metals, 2011, 161, 136-142.	3.9	12
50	From Linear to Angular Isomers: Achieving Tunable Charge Transport in Singleâ€Crystal Indolocarbazoles Through Delicate Synergetic CH/NHâ‹…â‹…â‹…Ï€ Interactions. Angewandte Chemie, 2018, 130, 9013-9018.	2.0	11
51	Which isomer is better for charge transport: anti- or syn-?. Journal of Materials Chemistry C, 2019, 7, 5858-5873.	5.5	11
52	Hole Mobility Modulation in Singleâ€Crystal Metal Phthalocyanines by Changing the Metalâ€“Ï€/Ï€â€“Ï€ Interactions. Angewandte Chemie, 2018, 130, 10269-10274.	2.0	10
53	Tuning the Ï€â€“Ï€ overlap and charge transport in single crystals of an organic semiconductor via solvation and polymorphism. Physical Chemistry Chemical Physics, 2020, 22, 19855-19863.	2.8	10
54	The Stoichiometry of TCNQ-Based Organic Charge-Transfer Cocrystals. Crystals, 2020, 10, 993.	2.2	8

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55	A smart strategy of â€œlaser-direct-writingâ€•to achieve scalable fabrication of self-supported MoNi‹sub›4‹/sub›/Ni catalysts for efficient and durable hydrogen evolution reaction. Journal of Materials Chemistry A, 2022, 10, 12722-12732.	10.3	8
56	Trisulfideâ€Bond Acenes for Organic Batteries. Angewandte Chemie, 2019, 131, 13647-13655.	2.0	7
57	Organic Field-Effect Transistors: High-Performance Organic Single-Crystal Field-Effect Transistors of Indolo[3,2-b]carbazole and Their Potential Applications in Gas Controlled Organic Memory Devices (Adv. Mater. 43/2011). Advanced Materials, 2011, 23, 5074-5074.	21.0	3
58	Organic Nanocrystals: Atomically Flat, Largeâ€Sized, Twoâ€Dimensional Organic Nanocrystals (Small) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	10.0	3
59	Additive manufacturing of micrometric crystallization vessels and single crystals. Scientific Reports, 2016, 6, 36786.	3.3	3
60	A self-supported FeNi layered double hydroxide anode with high activity and long-term stability for efficient oxygen evolution reaction. Sustainable Energy and Fuels, 2021, 5, 3205-3212.	4.9	3
61	Growth direction dependent separate-channel charge transport in the organic weak charge-transfer co-crystal of anthraceneâ€“DTTCNQ. Materials Horizons, 2022, , .	12.2	2
62	Spider's microstructure for sensing. Micron, 2006, 37, 121-128.	2.2	1
63	Fieldâ€Effect Devices: Molecular Crystal Engineering: Tuning Organic Semiconductor from pâ€type to nâ€type by Adjusting Their Substitutional Symmetry (Adv. Mater. 10/2017). Advanced Materials, 2017, 29, .	21.0	1
64	InnenrÃ¼cktitelbild: From Linear to Angular Isomers: Achieving Tunable Charge Transport in Singleâ€Crystal Indolocarbazoles Through Delicate Synergetic CH/NHâ‹…â‹…â‹…Ï€ Interactions (Angew. Chem.) Tj ETQq0 0 0 rgBT /Over	21.0	0