Hongliang Chen

List of Publications by Year
in descending order

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		279798	265206
44	2,344	23	42
papers	citations	h-index	g-index

50	50	50	2976
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Covalently bonded single-molecule junctions with stable and reversible photoswitched conductivity. Science, 2016, 352, 1443-1445.	12.6	697
2	Interface Engineering in Organic Field-Effect Transistors: Principles, Applications, and Perspectives. Chemical Reviews, 2020, 120, 2879-2949.	47.7	213
3	From molecular to supramolecular electronics. Nature Reviews Materials, 2021, 6, 804-828.	48.7	169
4	A precise polyrotaxane synthesizer. Science, 2020, 368, 1247-1253.	12.6	148
5	Solutionâ€Processable, Lowâ€Voltage, and Highâ€Performance Monolayer Fieldâ€Effect Transistors with Aqueous Stability and High Sensitivity. Advanced Materials, 2015, 27, 2113-2120.	21.0	97
6	Design of a Photoactive Hybrid Bilayer Dielectric for Flexible Nonvolatile Organic Memory Transistors. ACS Nano, 2016, 10, 436-445.	14.6	91
7	Two-photon excited deep-red and near-infrared emissive organic co-crystals. Nature Communications, 2020, 11, 4633.	12.8	82
8	Multistep nucleation and growth mechanisms of organic crystals from amorphous solid states. Nature Communications, 2019, 10, 3872.	12.8	57
9	Interfaceâ€Engineered Bistable [2]Rotaxaneâ€Graphene Hybrids with Logic Capabilities. Advanced Materials, 2013, 25, 6752-6759.	21.0	53
10	Electron-catalysed molecular recognition. Nature, 2022, 603, 265-270.	27.8	51
11	A Donorâ€“Acceptor [2]Catenane for Visible Light Photocatalysis. Journal of the American Chemical Society, 2021, 143, 8000-8010.	13.7	47
12	Epitaxial Growth of Î³-Cyclodextrin-Containing Metalâ€“Organic Frameworks Based on a Hostâ€“Guest Strategy. Journal of the American Chemical Society, 2018, 140, 11402-11407.	13.7	44
13	Giant Conductance Enhancement of Intramolecular Circuits through Interchannel Gating. Matter, 2020, 2, 378-389.	10.0	43
14	Single-Molecule Charge Transport through Positively Charged Electrostatic Anchors. Journal of the American Chemical Society, 2021, 143, 2886-2895.	13.7	43
15	Unique Role of Selfâ€Assembled Monolayers in Carbon Nanomaterialâ€Based Fieldâ€Effect Transistors. Small, 2013, 9, 1144-1159.	10.0	40
16	Interface-modulated approach toward multilevel metal oxide nanotubes for lithium-ion batteries and oxygen reduction reaction. Nano Research, 2016, 9, 2445-2457.	10.4	40
17	Selective Photodimerization in a Cyclodextrin Metalâ€“Organic Framework. Journal of the American Chemical Society, 2021, 143, 9129-9139.	13.7	34
18	Highly enantioselective Friedelâ€“Crafts reaction of indoles with N-sulfonyl aldimines catalyzed by heteroarylidene malonate-type bis(oxazoline) copper(II) complexes. Tetrahedron: Asymmetry, 2011, 22, 1874-1878.	1.8	33

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19	Solutionâ€Crystallized Organic Semiconductors with High Carrier Mobility and Air Stability. Advanced Materials, 2012, 24, 5576-5580.	21.0	33
20	Photocontrol of charge injection/extraction at electrode/semiconductor interfaces for high-photoresponsivity organic transistors. Journal of Materials Chemistry C, 2016, 4, 5289-5296.	5.5	29
21	Synergistic Photomodulation of Capacitive Coupling and Charge Separation Toward Functional Organic Fieldâ€Effect Transistors with High Responsivity. Advanced Electronic Materials, 2015, 1, 1500159.	5.1	28
22	Organic Counteranion Co-assembly Strategy for the Formation of Î³-Cyclodextrin-Containing Hybrid Frameworks. Journal of the American Chemical Society, 2020, 142, 2042-2050.	13.7	26
23	Radical Cyclic [3]Daisy Chains. CheM, 2021, 7, 174-189.	11.7	26
24	Electron-Catalyzed Dehydrogenation in a Single-Molecule Junction. Journal of the American Chemical Society, 2021, 143, 8476-8487.	13.7	25
25	Malonate-type bis(oxazoline) ligands with sp2 hybridized bridge carbon: synthesis and application in Friedelâ€“Crafts alkylation and allylic alkylation. Tetrahedron, 2011, 67, 9602-9608.	1.9	24
26	Molecular-Pump-Enabled Synthesis of a Daisy Chain Polymer. Journal of the American Chemical Society, 2020, 142, 10308-10313.	13.7	24
27	Active Self-Assembled Monolayer Sensors for Trace Explosive Detection. Langmuir, 2020, 36, 1462-1466.	3.5	18
28	Highly Stable Organic Bisradicals Protected by Mechanical Bonds. Journal of the American Chemical Society, 2020, 142, 7190-7197.	13.7	17
29	High-Efficiency Selective Electron Tunnelling in a Heterostructure Photovoltaic Diode. Nano Letters, 2016, 16, 3600-3606.	9.1	14
30	Tuning radical interactions in trisradical tricationic complexes by varying host-cavity sizes. Chemical Science, 2020, 11, 107-112.	7.4	14
31	Promotion and suppression of single-molecule conductance by quantum interference in macrocyclic circuits. Matter, 2021, , .	10.0	12
32	Syntheses of three-dimensional catenanes under kinetic control. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, e2118573119.	7.1	12
33	Preparation of highly oriented single crystal arrays of C8-BTBT by epitaxial growth on oriented isotactic polypropylene. Journal of Materials Chemistry C, 2020, 8, 2155-2159.	5.5	11
34	Radically Enhanced Dual Recognition. Angewandte Chemie - International Edition, 2021, 60, 25454-25462.	13.8	10
35	A Roadmap for Mechanically Interlocked Molecular Junctions at Nanoscale. ACS Applied Nano Materials, 2022, 5, 13874-13886.	5.0	9
36	2D Hybrid Nanostructured Dirac Materials for Broadband Transparent Electrodes. Advanced Materials, 2015, 27, 4315-4321.	21.0	8

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37	Temperatureâ€Triggered Supramolecular Assembly of Organic Semiconductors. Advanced Materials, 2022, 34, e2101487.	21.0	8
38	Field Effect Transistors Based on In Situ Fabricated Graphene Scaffoldâ€“ZrO₂ Nanofilms. Advanced Electronic Materials, 2018, 4, 1700424.	5.1	4
39	Radically Enhanced Dual Recognition. Angewandte Chemie, 0, , .	2.0	4
40	Organic Semiconductors: Solutionâ€Crystallized Organic Semiconductors with High Carrier Mobility and Air Stability (Adv. Mater. 41/2012). Advanced Materials, 2012, 24, 5518-5518.	21.0	1
41	Fieldâ€Effect Transistors: Unique Role of Selfâ€Assembled Monolayers in Carbon Nanomaterialâ€Based Fieldâ€Effect Transistors (Small 8/2013). Small, 2013, 9, 1122-1122.	10.0	1
42	Precise Control of Interfacial Charge Transport for Building Functional Optoelectronic Devices. Advanced Materials Technologies, 2019, 4, 1800358.	5.8	1
43	Organic Fieldâ€Effect Transistors: Solutionâ€Processable, Lowâ€Voltage, and Highâ€Performance Monolayer Fieldâ€Effect Transistors with Aqueous Stability and High Sensitivity (Adv. Mater. 12/2015). Advanced Materials, 2015, 27, 2124-2124.	21.0	0
44	InnenrÃ¼cktitelbild: Radically Enhanced Dual Recognition (Angew. Chem. 48/2021). Angewandte Chemie, 2021, 133, 25787-25787.	2.0	0