Hong Xu

List of Publications by Year
in descending order

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82	9,216	116194	75989
papers	citations	36	78
		h-index	g-index

87	87	87	8863
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Impact of Lithiumâ€Ion Coordination on Lithium Electrodeposition. Energy and Environmental Materials, 2023, 6, .	7.3	5
2	High Ionâ€Selectivity of Garnet Solid Electrolyte Enabling Separation of Metallic Lithium. Energy and Environmental Materials, 2023, 6, .	7.3	1
3	<scp>Li₄Ti₅O₁₂</scp> spinel anode: Fundamentals and advances in rechargeable batteries. InformaÄnÃ-MateriÃ¡ly, 2022, 4, .	8.5	71
4	Design of Photothermal Covalent Organic Frameworks by Radical Immobilization. CCS Chemistry, 2022, 4, 2842-2853.	4.6	25
5	Simultaneously Blocking Chemical Crosstalk and Internal Short Circuit via Gelâ€Stretching Derived Nanoporous Nonâ€Shrinkage Separator for Safe Lithiumâ€Ion Batteries. Advanced Materials, 2022, 34, e2106335.	11.1	51
6	Decorating Covalent Organic Frameworks with High-density Chelate Groups for Uranium Extraction. Chemical Research in Chinese Universities, 2022, 38, 433-439.	1.3	12
7	Suppressing electrolyte-lithium metal reactivity via Li+-desolvation in uniform nano-porous separator. Nature Communications, 2022, 13, 172.	5.8	83
8	Electrochemical Deposition of a Singleâ€Crystalline Nanorod Polycyclic Aromatic Hydrocarbon Film with Efficient Charge and Exciton Transport. Angewandte Chemie, 2022, 134, .	1.6	3
9	Electrochemical Deposition of a Singleâ€Crystalline Nanorod Polycyclic Aromatic Hydrocarbon Film with Efficient Charge and Exciton Transport. Angewandte Chemie - International Edition, 2022, 61, .	7.2	14
10	Ultrafast charge transfer dynamics in 2D covalent organic frameworks/Re-complex hybrid photocatalyst. Nature Communications, 2022, 13, 845.	5.8	46
11	Cobaltâ€Free Cathode Materials: Families and their Prospects. Advanced Energy Materials, 2022, 12, .	10.2	77
12	Rational design of imineâ€linked threeâ€dimensional mesoporous covalent organic frameworks with bor topology. SusMat, 2022, 2, 197-205.	7.8	12
13	The significance of detecting imperceptible physical/chemical changes/reactions in lithium-ion batteries: a perspective. Energy and Environmental Science, 2022, 15, 2329-2355.	15.6	20
14	Cobaltâ€Free Cathode Materials: Families and their Prospects (Adv. Energy Mater. 16/2022). Advanced Energy Materials, 2022, 12, .	10.2	2
15	Phenothiazine-based covalent organic frameworks with low exciton binding energies for photocatalysis. Chemical Science, 2022, 13, 8679-8685.	3.7	25
16	Regulation of Dendrite-Free Li Plating via Lithiophilic Sites on Lithium-Alloy Surface. ACS Applied Materials & Interfaces, 2022, 14, 33952-33959.	4.0	15
17	Three-Dimensional Covalent Organic Framework with ceq Topology. Journal of the American Chemical Society, 2021, 143, 92-96.	6.6	84
18	Construction of unimpeded proton-conducting pathways in solution-processed nanoporous polymer membranes. Materials Horizons, 2021, 8, 3088-3095.	6.4	9

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19	Pry into the thermal and mechanical properties of electrolyte-soaked separators. Journal of the Taiwan Institute of Chemical Engineers, 2021, 119, 269-276.	2.7	8
20	From separator to membrane: Separators can function more in lithium ion batteries. Electrochemistry Communications, 2021, 124, 106948.	2.3	37
21	New safety strategies for nuclear power plants: A review. International Journal of Energy Research, 2021, 45, 11564-11588.	2.2	8
22	Benzophenone as indicator detecting lithium metal inside solid state electrolyte. Journal of Power Sources, 2021, 492, 229661.	4.0	6
23	Hydroxide Anion Transport in Covalent Organic Frameworks. Journal of the American Chemical Society, 2021, 143, 8970-8975.	6.6	44
24	High-rate performance of LiNi0.5Mn1.45Al0.05O4 cathode material for lithium-ion batteries. Ionics, 2021, 27, 4639-4647.	1.2	0
25	Design of Persistent and Stable Porous Radical Polymers by Electronic Isolation Strategy. Angewandte Chemie - International Edition, 2021, 60, 24424-24429.	7.2	18
26	Exceptional electron conduction in two-dimensional covalent organic frameworks. CheM, 2021, 7, 3309-3324.	5.8	41
27	Suppression of lithium dendrite by aramid nanofibrous aerogel separator. Journal of Power Sources, 2021, 515, 230608.	4.0	10
28	Three-Dimensional Covalent Organic Frameworks with hea Topology. Chemistry of Materials, 2021, 33, 9618-9623.	3.2	45
29	Reviewing the current status and development of polymer electrolytes for solid-state lithium batteries. Energy Storage Materials, 2020, 33, 188-215.	9.5	205
30	The opportunity of metal organic frameworks and covalent organic frameworks in lithium (ion) batteries and fuel cells. Energy Storage Materials, 2020, 33, 360-381.	9.5	47
31	Crystalline and Stable Benzofuran-Linked Covalent Organic Frameworks from Irreversible Cascade Reactions. Journal of the American Chemical Society, 2020, 142, 13316-13321.	6.6	85
32	Phenazine anodes for ultralongcycle-life aqueous rechargeable batteries. Journal of Materials Chemistry A, 2020, 8, 26013-26022.	5.2	21
33	General Research on the Process of the Indirect Hot Stamping Ultra-High-Strength Steel. Metals, 2020, 10, 1658.	1.0	2
34	Impacts of SiC on the microstructure and wear performances of (SiCâ€“Al₃Ti)/7075 composites. Emerging Materials Research, 2020, 9, 716-724.	0.4	2
35	PVDF-HFP/LiF Composite Interfacial Film to Enhance the Stability of Li-Metal Anodes. ACS Applied Energy Materials, 2020, 3, 7191-7199.	2.5	33
36	K_{0.83}V₂O₅: A New Layered Compound as a Stable Cathode Material for Potassium-Ion Batteries. ACS Applied Materials & Interfaces, 2020, 12, 9332-9340.	4.0	43

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37	Countersolvent Electrolytes for Lithiumâ€Metal Batteries. Advanced Energy Materials, 2020, 10, 1903568.	10.2	200
38	Accelerated lithium-ion conduction in covalent organic frameworks. Chemical Communications, 2020, 56, 10465-10468.	2.2	40
39	Photoresist for Extreme Ultraviolet Lithography. , 2020, , .		0
40	Research on Lightweight Design and Indirect Hot Stamping Process of the New Ultra-High Strength Steel Seat Bracket. Metals, 2019, 9, 833.	1.0	5
41	Three-Dimensional Printing of Hierarchical Porous Architectures. Chemistry of Materials, 2019, 31, 10017-10022.	3.2	18
42	A highly soluble, crystalline covalent organic framework compatible with device implementation. Chemical Science, 2019, 10, 1023-1028.	3.7	173
43	Stretch bending defect control of L-section SUS301L stainless-steel components with variable contour curvatures. Journal of Iron and Steel Research International, 2019, 26, 1376-1384.	1.4	7
44	Entropic death of nonpatterned and nanopatterned polyelectrolyte brushes. Journal of Polymer Science Part A, 2019, 57, 1283-1295.	2.5	7
45	Anion effects on the solvation structure and properties of imide lithium salt-based electrolytes. RSC Advances, 2019, 9, 41837-41846.	1.7	31
46	Radical sensitive Zinc-based nanoparticle EUV photoresists. , 2019, , .		3
47	In pursuit of Mooreâ€™s Law: polymer chemistry in action. Polymer Journal, 2018, 50, 45-55.	1.3	17
48	Progress in metal organic cluster EUV photoresists. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2018, 36, .	0.6	7
49	Designed synthesis of stable light-emitting two-dimensional sp2 carbon-conjugated covalent organic frameworks. Nature Communications, 2018, 9, 4143.	5.8	319
50	The Challenges of Highly Sensitive EUV Photoresists. Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi], 2018, 31, 261-265.	0.1	8
51	Metalâ€“Organic Framework-Inspired Metal-Containing Clusters for High-Resolution Patterning. Chemistry of Materials, 2018, 30, 4124-4133.	3.2	65
52	EUV photolithography: resist progress in metalâ€“organic complex photoresists. Journal of Micro/Nanolithography, MEMS, and MOEMS, 2018, 18, 1.	1.0	17
53	Patterning mechanism of metal based hybrid EUV resists. , 2018, , .		1
54	EUV photolithography: resist progress and challenges. , 2018, , .		9

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55	EUV metal oxide hybrid photoresists: ultra-small structures for high-resolution patterning. , 2018, , .		2
56	Stable Covalent Organic Frameworks for Exceptional Mercury Removal from Aqueous Solutions. Journal of the American Chemical Society, 2017, 139, 2428-2434.	6.6	519
57	A backbone design principle for covalent organic frameworks: the impact of weakly interacting units on CO₂ adsorption. Chemical Communications, 2017, 53, 4242-4245.	2.2	113
58	Nanoparticle photoresist studies for EUV lithography. Proceedings of SPIE, 2017, , .	0.8	19
59	Bicarbazole-based redox-active covalent organic frameworks for ultrahigh-performance energy storage. Chemical Communications, 2017, 53, 11334-11337.	2.2	81
60	Two-dimensional sp ² carbonâ€“conjugated covalent organic frameworks. Science, 2017, 357, 673-676.	6.0	866
61	Recent Progress in EUV Metal Oxide Photoresists. Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi], 2017, 30, 93-97.	0.1	6
62	Elucidating the patterning mechanism of zirconium-based hybrid photoresists. Journal of Micro/ Nanolithography, MEMS, and MOEMS, 2017, 16, 1.	1.0	22
63	Optimal Design for Cooling System of Hot Stamping Dies. ISIJ International, 2016, 56, 2250-2258.	0.6	14
64	Positive Tone Nanoparticle Photoresists: New Insight on the Patterning Mechanism. Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi], 2016, 29, 509-512.	0.1	7
65	Recent progress in nanoparticle photoresists development for EUV lithography. , 2016, , .		9
66	Proton conduction in crystalline and porous covalent organic frameworks. Nature Materials, 2016, 15, 722-726.	13.3	597
67	Stretch bending defects control of L-section aluminum components with variable curvatures. International Journal of Advanced Manufacturing Technology, 2016, 85, 1053-1061.	1.5	12
68	Design of Highly Photofunctional Porous Polymer Films with Controlled Thickness and Prominent Microporosity. Angewandte Chemie - International Edition, 2015, 54, 11540-11544.	7.2	140
69	Ï€â€Conjugated Microporous Polymer Films: Designed Synthesis, Conducting Properties, and Photoenergy Conversions. Angewandte Chemie - International Edition, 2015, 54, 13594-13598.	7.2	182
70	Designed synthesis of double-stage two-dimensional covalent organic frameworks. Scientific Reports, 2015, 5, 14650.	1.6	107
71	Locking Covalent Organic Frameworks with Hydrogen Bonds: General and Remarkable Effects on Crystalline Structure, Physical Properties, and Photochemical Activity. Journal of the American Chemical Society, 2015, 137, 3241-3247.	6.6	320
72	Rational design of crystalline supermicroporous covalent organic frameworks with triangular topologies. Nature Communications, 2015, 6, 7786.	5.8	274

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73	Radical Covalent Organic Frameworks: A General Strategy to Immobilize Openâ€Accessible Polyradicals for Highâ€Performance Capacitive Energy Storage. Angewandte Chemie - International Edition, 2015, 54, 6814-6818.	7.2	342
74	A Ï€-electronic covalent organic framework catalyst: Ï€-walls as catalytic beds for Dielsâ€“Alder reactions under ambient conditions. Chemical Communications, 2015, 51, 10096-10098.	2.2	105
75	Stable, crystalline, porous, covalent organic frameworks as a platform for chiral organocatalysts. Nature Chemistry, 2015, 7, 905-912.	6.6	1,206
76	Catalytic covalent organic frameworks via pore surface engineering. Chemical Communications, 2014, 50, 1292-1294.	2.2	292
77	Towards covalent organic frameworks with predesignable and aligned open docking sites. Chemical Communications, 2014, 50, 6161-6163.	2.2	136
78	Crossing the channel. Nature Chemistry, 2014, 6, 564-566.	6.6	47
79	Conjugated microporous polymers: design, synthesis and application. Chemical Society Reviews, 2013, 42, 8012.	18.7	1,459
80	Influence of Welding Speed on Microstructures and Properties of Ultra-high Strength Steel Sheets in Laser Welding. ISIJ International, 2012, 52, 483-487.	0.6	20
81	Microstructures and Properties of Ultra-high Strength Steel by Laser Welding. ISIJ International, 2011, 51, 1126-1131.	0.6	14
82	Development of CAD software package of intellectualized casting technology. Central South University, 2005, 12, 280-283.	0.5	2