Hong Xu

List of Publications by Year
in descending order

82 papers	9,216 citations	101543 36 h-index	66911 78 g-index
87 all docs	87 docs citations	87 times ranked	7813 citing authors

#	Article	IF	Citations
1	Conjugated microporous polymers: design, synthesis and application. Chemical Society Reviews, 2013, 42, 8012.	38.1	1,459
2	Stable, crystalline, porous, covalent organic frameworks as a platform for chiral organocatalysts. Nature Chemistry, 2015, 7, 905-912.	13.6	1,206
3	Two-dimensional sp ² carbonâ€“conjugated covalent organic frameworks. Science, 2017, 357, 673-676.	12.6	866
4	Proton conduction in crystalline and porous covalent organic frameworks. Nature Materials, 2016, 15, 722-726.	27.5	597
5	Stable Covalent Organic Frameworks for Exceptional Mercury Removal from Aqueous Solutions. Journal of the American Chemical Society, 2017, 139, 2428-2434.	13.7	519
6	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.	13.8	342
7	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.	13.7	320
8	Designed synthesis of stable light-emitting two-dimensional sp2 carbon-conjugated covalent organic frameworks. Nature Communications, 2018, 9, 4143.	12.8	319
9	Catalytic covalent organic frameworks via pore surface engineering. Chemical Communications, 2014, 50, 1292-1294.	4.1	292
10	Rational design of crystalline supermicroporous covalent organic frameworks with triangular topologies. Nature Communications, 2015, 6, 7786.	12.8	274
11	Reviewing the current status and development of polymer electrolytes for solid-state lithium batteries. Energy Storage Materials, 2020, 33, 188-215.	18.0	205
12	Countersolvent Electrolytes for Lithiumâ€Metal Batteries. Advanced Energy Materials, 2020, 10, 1903568.	19.5	200
13	Ï€â€Conjugated Microporous Polymer Films: Designed Synthesis, Conducting Properties, and Photoenergy Conversions. Angewandte Chemie - International Edition, 2015, 54, 13594-13598.	13.8	182
14	A highly soluble, crystalline covalent organic framework compatible with device implementation. Chemical Science, 2019, 10, 1023-1028.	7.4	173
15	Design of Highly Photofunctional Porous Polymer Films with Controlled Thickness and Prominent Microporosity. Angewandte Chemie - International Edition, 2015, 54, 11540-11544.	13.8	140
16	Towards covalent organic frameworks with predesignable and aligned open docking sites. Chemical Communications, 2014, 50, 6161-6163.	4.1	136
17	A backbone design principle for covalent organic frameworks: the impact of weakly interacting units on CO₂ adsorption. Chemical Communications, 2017, 53, 4242-4245.	4.1	113
18	Designed synthesis of double-stage two-dimensional covalent organic frameworks. Scientific Reports, 2015, 5, 14650.	3.3	107

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19	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.	4.1	105
20	Crystalline and Stable Benzofuran-Linked Covalent Organic Frameworks from Irreversible Cascade Reactions. Journal of the American Chemical Society, 2020, 142, 13316-13321.	13.7	85
21	Three-Dimensional Covalent Organic Framework with ceq Topology. Journal of the American Chemical Society, 2021, 143, 92-96.	13.7	84
22	Suppressing electrolyte-lithium metal reactivity via Li+-desolvation in uniform nano-porous separator. Nature Communications, 2022, 13, 172.	12.8	83
23	Bicarbazole-based redox-active covalent organic frameworks for ultrahigh-performance energy storage. Chemical Communications, 2017, 53, 11334-11337.	4.1	81
24	Cobaltâ€Free Cathode Materials: Families and their Prospects. Advanced Energy Materials, 2022, 12, .	19.5	77
25	<scp>Li₄Ti₅O₁₂</scp> spinel anode: Fundamentals and advances in rechargeable batteries. InformaÄnÃ-MateriÃ¡ly, 2022, 4, .	17.3	71
26	Metalâ€"Organic Framework-Inspired Metal-Containing Clusters for High-Resolution Patterning. Chemistry of Materials, 2018, 30, 4124-4133.	6.7	65
27	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.	21.0	51
28	Crossing the channel. Nature Chemistry, 2014, 6, 564-566.	13.6	47
29	The opportunity of metal organic frameworks and covalent organic frameworks in lithium (ion) batteries and fuel cells. Energy Storage Materials, 2020, 33, 360-381.	18.0	47
30	Ultrafast charge transfer dynamics in 2D covalent organic frameworks/Re-complex hybrid photocatalyst. Nature Communications, 2022, 13, 845.	12.8	46
31	Three-Dimensional Covalent Organic Frameworks with hea Topology. Chemistry of Materials, 2021, 33, 9618-9623.	6.7	45
32	Hydroxide Anion Transport in Covalent Organic Frameworks. Journal of the American Chemical Society, 2021, 143, 8970-8975.	13.7	44
33	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.	8.0	43
34	Exceptional electron conduction in two-dimensional covalent organic frameworks. CheM, 2021, 7, 3309-3324.	11.7	41
35	Accelerated lithium-ion conduction in covalent organic frameworks. Chemical Communications, 2020, 56, 10465-10468.	4.1	40
36	From separator to membrane: Separators can function more in lithium ion batteries. Electrochemistry Communications, 2021, 124, 106948.	4.7	37

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37	PVDF-HFP/LiF Composite Interfacial Film to Enhance the Stability of Li-Metal Anodes. ACS Applied Energy Materials, 2020, 3, 7191-7199.	5.1	33
38	Anion effects on the solvation structure and properties of imide lithium salt-based electrolytes. RSC Advances, 2019, 9, 41837-41846.	3.6	31
39	Design of Photothermal Covalent Organic Frameworks by Radical Immobilization. CCS Chemistry, 2022, 4, 2842-2853.	7.8	25
40	Phenothiazine-based covalent organic frameworks with low exciton binding energies for photocatalysis. Chemical Science, 2022, 13, 8679-8685.	7.4	25
41	Elucidating the patterning mechanism of zirconium-based hybrid photoresists. Journal of Micro/ Nanolithography, MEMS, and MOEMS, 2017, 16, 1.	0.9	22
42	Phenazine anodes for ultralongcycle-life aqueous rechargeable batteries. Journal of Materials Chemistry A, 2020, 8, 26013-26022.	10.3	21
43	Influence of Welding Speed on Microstructures and Properties of Ultra-high Strength Steel Sheets in Laser Welding. ISIJ International, 2012, 52, 483-487.	1.4	20
44	The significance of detecting imperceptible physical/chemical changes/reactions in lithium-ion batteries: a perspective. Energy and Environmental Science, 2022, 15, 2329-2355.	30.8	20
45	Nanoparticle photoresist studies for EUV lithography. Proceedings of SPIE, 2017, , .	0.8	19
46	Three-Dimensional Printing of Hierarchical Porous Architectures. Chemistry of Materials, 2019, 31, 10017-10022.	6.7	18
47	Design of Persistent and Stable Porous Radical Polymers by Electronic Isolation Strategy. Angewandte Chemie - International Edition, 2021, 60, 24424-24429.	13.8	18
48	In pursuit of Mooreâ€™s Law: polymer chemistry in action. Polymer Journal, 2018, 50, 45-55.	2.7	17
49	EUV photolithography: resist progress in metalâ€“organic complex photoresists. Journal of Micro/ Nanolithography, MEMS, and MOEMS, 2018, 18, 1.	0.9	17
50	Regulation of Dendrite-Free Li Plating via Lithiophilic Sites on Lithium-Alloy Surface. ACS Applied Materials & Interfaces, 2022, 14, 33952-33959.	8.0	15
51	Microstructures and Properties of Ultra-high Strength Steel by Laser Welding. ISIJ International, 2011, 51, 1126-1131.	1.4	14
52	Optimal Design for Cooling System of Hot Stamping Dies. ISIJ International, 2016, 56, 2250-2258.	1.4	14
53	Electrochemical Deposition of a Singleâ€Crystalline Nanorod Polycyclic Aromatic Hydrocarbon Film with Efficient Charge and Exciton Transport. Angewandte Chemie - International Edition, 2022, 61, .	13.8	14
54	Stretch bending defects control of L-section aluminum components with variable curvatures. International Journal of Advanced Manufacturing Technology, 2016, 85, 1053-1061.	3.0	12

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55	Decorating Covalent Organic Frameworks with High-density Chelate Groups for Uranium Extraction. Chemical Research in Chinese Universities, 2022, 38, 433-439.	2.6	12
56	Rational design of imineâ€linked threeâ€dimensional mesoporous covalent organic frameworks with bor topology. SusMat, 2022, 2, 197-205.	14.9	12
57	Suppression of lithium dendrite by aramid nanofibrous aerogel separator. Journal of Power Sources, 2021, 515, 230608.	7.8	10
58	Recent progress in nanoparticle photoresists development for EUV lithography. , 2016, , .		9
59	Construction of unimpeded proton-conducting pathways in solution-processed nanoporous polymer membranes. Materials Horizons, 2021, 8, 3088-3095.	12.2	9
60	EUV photolithography: resist progress and challenges. , 2018, , .		9
61	The Challenges of Highly Sensitive EUV Photoresists. Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi], 2018, 31, 261-265.	0.3	8
62	Pry into the thermal and mechanical properties of electrolyte-soaked separators. Journal of the Taiwan Institute of Chemical Engineers, 2021, 119, 269-276.	5.3	8
63	New safety strategies for nuclear power plants: A review. International Journal of Energy Research, 2021, 45, 11564-11588.	4.5	8
64	Positive Tone Nanoparticle Photoresists: New Insight on the Patterning Mechanism. Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi], 2016, 29, 509-512.	0.3	7
65	Progress in metal organic cluster EUV photoresists. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2018, 36, .	1.2	7
66	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.	2.8	7
67	Entropic death of nonpatterned and nanopatterned polyelectrolyte brushes. Journal of Polymer Science Part A, 2019, 57, 1283-1295.	2.3	7
68	Recent Progress in EUV Metal Oxide Photoresists. Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi], 2017, 30, 93-97.	0.3	6
69	Benzophenone as indicator detecting lithium metal inside solid state electrolyte. Journal of Power Sources, 2021, 492, 229661.	7.8	6
70	Research on Lightweight Design and Indirect Hot Stamping Process of the New Ultra-High Strength Steel Seat Bracket. Metals, 2019, 9, 833.	2.3	5
71	Impact of Lithiumâ€Ion Coordination on Lithium Electrodeposition. Energy and Environmental Materials, 2023, 6, .	12.8	5
72	Radical sensitive Zinc-based nanoparticle EUV photoresists. , 2019, , .		3

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73	Electrochemical Deposition of a Singleâ€Crystalline Nanorod Polycyclic Aromatic Hydrocarbon Film with Efficient Charge and Exciton Transport. Angewandte Chemie, 2022, 134, .	2.0	3
74	Development of CAD software package of intellectualized casting technology. Central South University, 2005, 12, 280-283.	0.5	2
75	General Research on the Process of the Indirect Hot Stamping Ultra-High-Strength Steel. Metals, 2020, 10, 1658.	2.3	2
76	Impacts of SiC on the microstructure and wear performances of (SiCâ€"Al₃Ti)/7075 composites. Emerging Materials Research, 2020, 9, 716-724.	0.7	2
77	EUV metal oxide hybrid photoresists: ultra-small structures for high-resolution patterning. , 2018, , .		2
78	Cobaltâ€Free Cathode Materials: Families and their Prospects (Adv. Energy Mater. 16/2022). Advanced Energy Materials, 2022, 12, .	19.5	2
79	Patterning mechanism of metal based hybrid EUV resists. , 2018, , .		1
80	High Ionâ€Selectivity of Garnet Solid Electrolyte Enabling Separation of Metallic Lithium. Energy and Environmental Materials, 2023, 6, .	12.8	1
81	High-rate performance of LiNi0.5Mn1.45Al0.05O4 cathode material for lithium-ion batteries. Ionics, 2021, 27, 4639-4647.	2.4	0
82	Photoresist for Extreme Ultraviolet Lithography. , 2020, , .		0