Yanhang

List of Publications by Year in descending order

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67 papers	3,770 citations	185998 28 h-index	133063 59 g-index
70 all docs	70 docs citations	70 times ranked	4264 citing authors

#	Article	IF	Citations
1	Filling metalâ€“organic framework mesopores with TiO2 for CO2 photoreduction. Nature, 2020, 586, 549-554.	13.7	554
2	Weaving of organic threads into a crystalline covalent organic framework. Science, 2016, 351, 365-369.	6.0	427
3	A Crystalline Polyimide Porous Organic Framework for Selective Adsorption of Acetylene over Ethylene. Journal of the American Chemical Society, 2018, 140, 15724-15730.	6.6	207
4	Hydrophilicity gradient in covalent organic frameworks for membrane distillation. Nature Materials, 2021, 20, 1551-1558.	13.3	195
5	A Synthetic Route for Crystals of Woven Structures, Uniform Nanocrystals, and Thin Films of Imine Covalent Organic Frameworks. Journal of the American Chemical Society, 2017, 139, 13166-13172.	6.6	193
6	Conjugated Copperâ€“Catecholate Framework Electrodes for Efficient Energy Storage. Angewandte Chemie - International Edition, 2020, 59, 1081-1086.	7.2	131
7	Tricycloquinazolineâ€Based 2D Conductive Metalâ€“Organic Frameworks as Promising Electrocatalysts for CO₂Reduction. Angewandte Chemie - International Edition, 2021, 60, 14473-14479.	7.2	130
8	Enantiomerically enriched, polycrystalline molecular sieves. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 5101-5106.	3.3	109
9	Molecular Weaving of Covalent Organic Frameworks for Adaptive Guest Inclusion. Journal of the American Chemical Society, 2018, 140, 16015-16019.	6.6	107
10	3D Covalent Organic Frameworks Selectively Crystallized through Conformational Design. Journal of the American Chemical Society, 2020, 142, 20335-20339.	6.6	97
11	High performance nanosheet-like silicoaluminophosphate molecular sieves: synthesis, 3D EDT structural analysis and MTO catalytic studies. Journal of Materials Chemistry A, 2014, 2, 17828-17839.	5.2	96
12	Enhancing the Gas Separation Selectivity of Mixed-Matrix Membranes Using a Dual-Interfacial Engineering Approach. Journal of the American Chemical Society, 2020, 142, 18503-18512.	6.6	86
13	Selective Surface Reconstruction of a Defective Iridiumâ€Based Catalyst for Highâ€Efficiency Water Splitting. Advanced Functional Materials, 2020, 30, 2004375.	7.8	85
14	Atomically deviated Pd-Te nanoplates boost methanol-tolerant fuel cells. Science Advances, 2020, 6, eaba9731.	4.7	78
15	Probing Interactions between Metalâ€“Organic Frameworks and Freestanding Enzymes in a Hollow Structure. Nano Letters, 2020, 20, 6630-6635.	4.5	76
16	A conductive ZnOâ€“ZnGaON nanowire-array-on-a-film photoanode for stable and efficient sunlight water splitting. Energy and Environmental Science, 2014, 7, 1693.	15.6	75
17	When ternary PdCuP alloys meet ultrathin nanowires: Synergic boosting of catalytic performance in ethanol electrooxidation. Applied Catalysis B: Environmental, 2019, 253, 271-277.	10.8	70
18	Covalent Organic Framework for Efficient Two-Photon Absorption. Matter, 2020, 2, 1049-1063.	5.0	69

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19	Atomic-Level Characterization of Dynamics of a 3D Covalent Organic Framework by Cryo-Electron Diffraction Tomography. Journal of the American Chemical Society, 2019, 141, 10962-10966.	6.6	67
20	Highâ€Index Faceted RuCo Nanoscrews for Water Electrosplitting. Advanced Energy Materials, 2020, 10, 2002860.	10.2	58
21	pH-responsive mitoxantrone (MX) delivery using mesoporous silica nanoparticles (MSN). Journal of Materials Chemistry, 2011, 21, 9483.	6.7	53
22	Crystalline Facet-Directed Generation Engineering of Ultrathin Platinum Nanodendrites. Journal of Physical Chemistry Letters, 2019, 10, 663-671.	2.1	49
23	Synthesis of Lamellar Mesostructured ZSM-48 Nanosheets. Chemistry of Materials, 2018, 30, 1839-1843.	3.2	42
24	Electron crystallography for determining the handedness of a chiral zeolite nanocrystal. Nature Materials, 2017, 16, 755-759.	13.3	39
25	Potassium-directed sustainable synthesis of new high silica small-pore zeolite with KFI structure (ZJM-7) as an efficient catalyst for NH3-SCR reaction. Applied Catalysis B: Environmental, 2021, 281, 119480.	10.8	39
26	Construction of a Stable Crystalline Polyimide Porous Organic Framework for C₂H₂/C₂H₄ and CO₂/N₂ Separation. Chemistry - A European Journal, 2019, 25, 9045-9051.	1.7	36
27	Atomic-level handedness determination of chiral crystals using aberration-corrected scanning transmission electron microscopy. Nature Communications, 2020, 11, 1588.	5.8	33
28	Direct Synthesis of Aluminosilicate IWR Zeolite from a Strong Interaction between Zeolite Framework and Organic Template. Journal of the American Chemical Society, 2019, 141, 18318-18324.	6.6	30
29	A Layered Cationic Aluminum Oxyhydroxide as a Highly Efficient and Selective Trap for Heavy Metal Oxyanions. Angewandte Chemie - International Edition, 2020, 59, 19539-19544.	7.2	30
30	Removal of ⁹⁰Sr from highly Na⁺-rich liquid nuclear waste with a layered vanadosilicate. Energy and Environmental Science, 2019, 12, 1857-1865.	15.6	28
31	Direct Atomicâ€Level Imaging of Zeolites: Oxygen, Sodium in Naâ€LTA and Iron in Feâ€MFI. Angewandte Chemie - International Edition, 2020, 59, 19510-19517.	7.2	28
32	Ultrathin nanosheets of aluminosilicate FER zeolites synthesized in the presence of a sole small organic ammonium. Journal of Materials Chemistry A, 2019, 7, 16671-16676.	5.2	27
33	Local Structure Evolvement in MOF Single Crystals Unveiled by Scanning Transmission Electron Microscopy. Chemistry of Materials, 2020, 32, 4966-4972.	3.2	27
34	Entanglement of Square Nets in Covalent Organic Frameworks. Journal of the American Chemical Society, 2022, 144, 1539-1544.	6.6	26
35	Anionicâ^'Cationic Switchable Amphoteric Monodisperse Mesoporous Silica Nanoparticles. Langmuir, 2011, 27, 517-520.	1.6	25
36	Design of a Small Organic Template for the Synthesis of Self-Pillared Pentasil Zeolite Nanosheets. Journal of the American Chemical Society, 2022, 144, 6270-6277.	6.6	24

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37	Directâ€Space Structure Determination of Covalent Organic Frameworks from 3D Electron Diffraction Data. Angewandte Chemie - International Edition, 2020, 59, 22638-22644.	7.2	23
38	The inner heterogeneity of ZSM-5 zeolite crystals. Journal of Materials Chemistry A, 2021, 9, 4203-4212.	5.2	21
39	Mesoporous MFI Zeolite with a 2D Square Structure Directed by Surfactants with an Azobenzene Tail Group. Chemistry - A European Journal, 2018, 24, 8615-8623.	1.7	18
40	Phase Identification and Structure Solution by Three-Dimensional Electron Diffraction Tomography: Gdâ€“Phosphate Nanorods. Inorganic Chemistry, 2014, 53, 5067-5072.	1.9	17
41	ECNUâ€36: A Quasiâ€Pure Polymorph C_H Beta Silicate Composed of Hierarchical Nanosheet Crystals for Effective VOCs Adsorption. Angewandte Chemie - International Edition, 2020, 59, 17291-17296.	7.2	17
42	Decoupling nucleation from crystal-growth for the synthesis of nanocrystalline zeolites. Dalton Transactions, 2020, 49, 7258-7266.	1.6	16
43	Electron Microscopy Studies of Local Structural Modulations in Zeolite Crystals. Angewandte Chemie - International Edition, 2020, 59, 19403-19413.	7.2	14
44	â€œOpenâ€•Nonporous Nonasil Zeolite Structure for Selective Catalysis. Journal of the American Chemical Society, 2021, 143, 20569-20573.	6.6	14
45	Some Efforts Toward Understanding Structural Features of MOF/COF. Israel Journal of Chemistry, 2018, 58, 1157-1163.	1.0	13
46	Topotactic conversion of Ge-rich IWW zeolite into IPC-18 under mild condition. Microporous and Mesoporous Materials, 2021, 310, 110617.	2.2	13
47	Tracking and Visualization of Functional Domains in Stratified Metalâ€“Organic Frameworks Using Gold Nanoparticles. ACS Central Science, 2020, 6, 247-253.	5.3	13
48	Structural Study of Hexagonal Close-Packed Silica Mesoporous Crystal. Chemistry of Materials, 2013, 25, 2184-2191.	3.2	12
49	Microstructure of Lithium Dendrites Revealed by Room-Temperature Electron Microscopy. Journal of the American Chemical Society, 2022, 144, 4124-4132.	6.6	12
50	A simple program for fast tilting electron-beam sensitive crystals to zone axes. Ultramicroscopy, 2020, 211, 112941.	0.8	11
51	Anderssonâ€MagnÃ©li Phases Ti_nO_{2nâ€1}: Recent Progress Inspired by Swedish Scientists. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2021, 647, 126-133.	0.6	11
52	Two Coexisting Forms of Simple Molecules for Directing Sesqui-Unit-Cell Zeolite Nanosheets. Chemistry of Materials, 2021, 33, 6934-6941.	3.2	11
53	Protective dissolution: generating secondary pores in zeolite by mechanochemical reaction. RSC Advances, 2020, 10, 13583-13590.	1.7	8
54	Polypyrrole Cubosomes with Ordered Ultralarge Mesopore for Controllable Encapsulation and Release of Albumin. Nano Letters, 2022, 22, 3685-3690.	4.5	8

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55	Reverse synthesis of yolkâ€“shell metalâ€“organic frameworks. Chemical Communications, 2021, 57, 3415-3418.	2.2	7
56	Additive-free synthesis of mesoporous FAU-type zeolite with intergrown structure. Science China Materials, 2018, 61, 1095-1100.	3.5	6
57	Structure Characterization of Mesoporous Materials by Electron Microscopy. The Enzymes, 2018, 43, 11-30.	0.7	6
58	Single crystal metal-organic framework constructed by vertically self-pillared nanosheets and its derivative for oriented lithium plating. Chinese Journal of Catalysis, 2021, 42, 1553-1560.	6.9	6
59	Electron Microscopy of Nanoporous Crystals. Accounts of Materials Research, 2022, 3, 110-121.	5.9	6
60	Nanoparticle encapsulation into 2D layered metal-organic frameworks with capping agent free interface. Microporous and Mesoporous Materials, 2021, 323, 111137.	2.2	5
61	Microscopy of Nanoporous Crystals. Springer Handbooks, 2019, , 1391-1450.	0.3	5
62	Metalâ€“Organic Framework Based Thermally Activated Delayed Fluorescence Emitter with Oxygenâ€insensitivity for Cell Imaging. Advanced Optical Materials, 2022, 10, .	3.6	5
63	Sequential Oriented Growth of Zr-fcu-MOFs on Different Crystal Facets of MIL-96(Al). Crystal Growth and Design, 2021, 21, 4571-4578.	1.4	4
64	Electron Microscopy Studies of Local Structural Modulations in Zeolite Crystals. Angewandte Chemie, 2020, 132, 19571-19581.	1.6	3
65	Directâ€Space Structure Determination of Covalent Organic Frameworks from 3D Electron Diffraction Data. Angewandte Chemie, 2020, 132, 22827-22833.	1.6	2
66	Direct Atomicâ€Level Imaging of Zeolites: Oxygen, Sodium in Naâ€LTA and Iron in Feâ€MFI. Angewandte Chemie, 2020, 132, 19678-19685.	1.6	2
67	Titelbild: Direct Atomicâ€Level Imaging of Zeolites: Oxygen, Sodium in Naâ€LTA and Iron in Feâ€MFI (Angew.) Tj ETQq1 1 0.784314 rgBT	1.6	0