

Daliang Zhang

List of Publications by Year in descending order

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84
papers

7,392
citations

76326

40
h-index

58581

82
g-index

91
all docs

91
docs citations

91
times ranked

10076
citing authors

#	ARTICLE	IF	CITATIONS
1	Ordered macro-microporous metal-organic framework single crystals. <i>Science</i> , 2018, 359, 206-210.	12.6	836
2	The ITQ-37 mesoporous chiral zeolite. <i>Nature</i> , 2009, 458, 1154-1157.	27.8	526
3	Gas storage in porous aromatic frameworks (PAFs). <i>Energy and Environmental Science</i> , 2011, 4, 3991.	30.8	429
4	Atomic-resolution transmission electron microscopy of electron beam-sensitive crystalline materials. <i>Science</i> , 2018, 359, 675-679.	12.6	374
5	Imaging defects and their evolution in a metal-organic framework at sub-unit-cell resolution. <i>Nature Chemistry</i> , 2019, 11, 622-628.	13.6	371
6	Highly Mesoporous Single-Crystalline Zeolite Beta Synthesized Using a Nonsurfactant Cationic Polymer as a Dual-Function Template. <i>Journal of the American Chemical Society</i> , 2014, 136, 2503-2510.	13.7	266
7	Controlled release of Captopril by regulating the pore size and morphology of ordered mesoporous silica. <i>Microporous and Mesoporous Materials</i> , 2006, 92, 1-9.	4.4	258
8	Collecting 3D electron diffraction data by the rotation method. <i>Zeitschrift für Kristallographie</i> , 2010, 225, 94-102.	1.1	254
9	Metal-Organic Framework Based upon the Synergy of a Brønsted Acid Framework and Lewis Acid Centers as a Highly Efficient Heterogeneous Catalyst for Fixed-Bed Reactions. <i>Journal of the American Chemical Society</i> , 2015, 137, 4243-4248.	13.7	242
10	Investigating the Origin of Enhanced C ₂₊ Selectivity in Oxide-/Hydroxide-Derived Copper Electrodes during CO ₂ Electroreduction. <i>Journal of the American Chemical Society</i> , 2020, 142, 4213-4222.	13.7	236
11	Selective adsorption of carbon dioxide by carbonized porous aromatic framework (PAF). <i>Energy and Environmental Science</i> , 2012, 5, 8370.	30.8	234
12	Novel Supramolecular Frameworks Self-Assembled from One-Dimensional Polymeric Coordination Chains. <i>European Journal of Inorganic Chemistry</i> , 2004, 2004, 185-191.	2.0	210
13	Structure and catalytic properties of the most complex intergrown zeolite ITQ-39 determined by electron crystallography. <i>Nature Chemistry</i> , 2012, 4, 188-194.	13.6	178
14	Narrow bandgap oxide nanoparticles coupled with graphene for high performance mid-infrared photodetection. <i>Nature Communications</i> , 2018, 9, 4299.	12.8	151
15	A tri-continuous mesoporous material with a silica pore wall following a hexagonal minimal surface. <i>Nature Chemistry</i> , 2009, 1, 123-127.	13.6	131
16	Porous ZnCo ₂ O ₄ nanoparticles derived from a new mixed-metal organic framework for supercapacitors. <i>Inorganic Chemistry Frontiers</i> , 2015, 2, 177-183.	6.0	130
17	Direct Imaging of Atomically Dispersed Molybdenum that Enables Location of Aluminum in the Framework of Zeolite ZSM-5. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 819-825.	13.8	125
18	Two-Dimensional SnO Anodes with a Tunable Number of Atomic Layers for Sodium Ion Batteries. <i>Nano Letters</i> , 2017, 17, 1302-1311.	9.1	118

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19	Quantum-Dot-Derived Catalysts for CO ₂ Reduction Reaction. <i>Joule</i> , 2019, 3, 1703-1718.	24.0	106
20	Direct Imaging of Tunable Crystal Surface Structures of MOF MIL-101 Using High-Resolution Electron Microscopy. <i>Journal of the American Chemical Society</i> , 2019, 141, 12021-12028.	13.7	93
21	Chemically Stable Guanidinium Covalent Organic Framework for the Efficient Capture of Low-Concentration Iodine at High Temperatures. <i>Journal of the American Chemical Society</i> , 2022, 144, 6821-6829.	13.7	89
22	Quasi-ZIF-67 for Boosted Oxygen Evolution Reaction Catalytic Activity via a Low Temperature Calcination. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 25037-25041.	8.0	86
23	Investigating the Influence of Mesoporosity in Zeolite Beta on Its Catalytic Performance for the Conversion of Methanol to Hydrocarbons. <i>ACS Catalysis</i> , 2015, 5, 5837-5845.	11.2	84
24	Synthesis and Structure of Polymorph B of Zeolite Beta. <i>Chemistry of Materials</i> , 2008, 20, 3218-3223.	6.7	80
25	Functional Two-Dimensional Coordination Polymeric Layer as a Charge Barrier in Li-ion Batteries. <i>ACS Nano</i> , 2018, 12, 836-843.	14.6	76
26	Targeted synthesis of an electroactive organic framework. <i>Journal of Materials Chemistry</i> , 2011, 21, 18208.	6.7	68
27	Synthesis and Structural Identification of a Highly Ordered Mesoporous Organosilica with Large Cage-like Pores. <i>Journal of Physical Chemistry B</i> , 2005, 109, 764-768.	2.6	66
28	Beyond Creation of Mesoporosity: The Advantages of Polymer-Based Dual-Function Templates for Fabricating Hierarchical Zeolites. <i>Advanced Functional Materials</i> , 2016, 26, 1881-1891.	14.9	66
29	Engineering effective structural defects of metal-organic frameworks to enhance their catalytic performances. <i>Journal of Materials Chemistry A</i> , 2020, 8, 4464-4472.	10.3	66
30	MOF-derived Co@N-C nanocatalyst for catalytic reduction of 4-nitrophenol to 4-aminophenol. <i>Microporous and Mesoporous Materials</i> , 2017, 241, 346-354.	4.4	65
31	Novel mesoporous silica spheres with ultra-large pore sizes and their application in protein separation. <i>Journal of Materials Chemistry</i> , 2009, 19, 2013.	6.7	63
32	Direct observations of the MOF (UiO-66) structure by transmission electron microscopy. <i>CrystEngComm</i> , 2013, 15, 9356.	2.6	62
33	Adsorption of vitamin B12 on ordered mesoporous carbons coated with PMMA. <i>Carbon</i> , 2005, 43, 2344-2351.	10.3	60
34	In-situ self-polymerization restriction to form core-shell LiFePO ₄ /C nanocomposite with ultrafast rate capability for high-power Li-ion batteries. <i>Nano Energy</i> , 2017, 39, 346-354.	16.0	58
35	Bulk and local structures of metal-organic frameworks unravelled by high-resolution electron microscopy. <i>Communications Chemistry</i> , 2020, 3, .	4.5	57
36	Atomic-Resolution Imaging of Halide Perovskites Using Electron Microscopy. <i>Advanced Energy Materials</i> , 2020, 10, 1904006.	19.5	57

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37	Large-Scale Synthesis of Necklace-Like Single-Crystalline PbTiO ₃ Nanowires. <i>Macromolecular Rapid Communications</i> , 2006, 27, 76-80.	3.9	55
38	Direct, Selective Production of Aromatic Alcohols from Ethanol Using a Tailored Bifunctional Cobalt ^{II} -Hydroxyapatite Catalyst. <i>ACS Catalysis</i> , 2019, 9, 7204-7216.	11.2	49
39	Significant internal quantum efficiency enhancement of GaN/AlGaIn multiple quantum wells emitting at ~350 nm via step quantum well structure design. <i>Journal Physics D: Applied Physics</i> , 2017, 50, 245101.	2.8	47
40	Synthesis of chiral polymorph A-enriched zeolite Beta with an extremely concentrated fluoride route. <i>Scientific Reports</i> , 2015, 5, 11521.	3.3	43
41	Hybrid metal-organic framework nanomaterials with enhanced carbon dioxide and methane adsorption enthalpy by incorporation of carbon nanotubes. <i>Inorganic Chemistry Communication</i> , 2015, 58, 79-83.	3.9	40
42	Rigid Nanoscopic Containers for Highly Dispersed, Stable Metal and Bimetal Nanoparticles with Both Size and Site Control. <i>Chemistry - A European Journal</i> , 2005, 11, 4975-4982.	3.3	39
43	Drug Self-Templated Synthesis of Ibuprofen/Mesoporous Silica for Sustained Release. <i>European Journal of Inorganic Chemistry</i> , 2006, 2006, 3943-3947.	2.0	38
44	Ordered mesoporous silica materials with complicated structures. <i>Current Opinion in Chemical Engineering</i> , 2012, 1, 129-137.	7.8	36
45	Direct Imaging of Atomically Dispersed Molybdenum that Enables Location of Aluminum in the Framework of Zeolite ZSM-5. <i>Angewandte Chemie</i> , 2020, 132, 829-835.	2.0	33
46	InGaIn/GaN nanowires epitaxy on large-area MoS ₂ for high-performance light-emitters. <i>RSC Advances</i> , 2017, 7, 26665-26672.	3.6	32
47	Facile synthesis of crystal like shape mesoporous silica SBA-16. <i>Microporous and Mesoporous Materials</i> , 2006, 97, 141-144.	4.4	30
48	ZIF-78 membrane derived from amorphous precursors with permselectivity for cyclohexanone/cyclohexanol mixture. <i>Microporous and Mesoporous Materials</i> , 2014, 192, 29-34.	4.4	28
49	Unconventional Doping Effect Leads to Ultrahigh Average Thermoelectric Power Factor in Cu ₃ SbSe ₄ -Based Composites. <i>Advanced Materials</i> , 2022, 34, e2109952.	21.0	28
50	Cryogenic Focused Ion Beam Enables Atomic-Resolution Imaging of Local Structures in Highly Sensitive Bulk Crystals and Devices. <i>Journal of the American Chemical Society</i> , 2022, 144, 3182-3191.	13.7	28
51	Guidance from an in situ hot stage in TEM to synthesize magnetic metal nanoparticles from a MOF. <i>Chemical Communications</i> , 2016, 52, 10513-10516.	4.1	27
52	Synthesis and application of a MOF-derived Ni@C catalyst by the guidance from an in situ hot stage in TEM. <i>RSC Advances</i> , 2017, 7, 26377-26383.	3.6	27
53	Preparation of a MOF membrane with 3-aminopropyltriethoxysilane as covalent linker for xylene isomers separation. <i>Inorganic Chemistry Communication</i> , 2013, 30, 74-78.	3.9	26
54	Open-Framework Germanate Built from the Hexagonal Packing of Rigid Cylinders. <i>Inorganic Chemistry</i> , 2009, 48, 9962-9964.	4.0	25

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55	Controlled Synthesis of the Tricontinuous Mesoporous Material IBN-9 and Its Carbon and Platinum Derivatives. <i>Chemistry of Materials</i> , 2011, 23, 3775-3786.	6.7	25
56	N-Methyl-2-pyrrolidone assisted synthesis of hierarchical ZSM-5 with house-of-cards-like structure. <i>RSC Advances</i> , 2014, 4, 21301-21305.	3.6	25
57	Reversible De/hydrating Reactions between Two New Mg ^{II} -Ni Compounds with Improved Thermodynamics and Kinetics. <i>Journal of Physical Chemistry C</i> , 2015, 119, 26858-26865.	3.1	25
58	Design and synthesis of high performance LiFePO ₄ /C nanomaterials for lithium ion batteries assisted by a facile H ⁺ /Li ⁺ ion exchange reaction. <i>Journal of Materials Chemistry A</i> , 2015, 3, 8062-8069.	10.3	24
59	Mesoporous and Al-rich MFI crystals assembled with aligned nanorods in the absence of organic templates. <i>Microporous and Mesoporous Materials</i> , 2016, 233, 133-139.	4.4	24
60	An Aluminophosphate Molecular Sieve with 36 Crystallographically Distinct Tetrahedral Sites. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 7480-7483.	13.8	23
61	Precession electron diffraction using a digital sampling method. <i>Ultramicroscopy</i> , 2010, 111, 47-55.	1.9	22
62	High-temperature synthesis of stable ordered mesoporous silica materials using mesoporous carbon as a hard template. <i>Microporous and Mesoporous Materials</i> , 2005, 86, 81-88.	4.4	21
63	Impregnation of zeolite membranes for enhanced selectivity. <i>Journal of Membrane Science</i> , 2010, 365, 188-197.	8.2	19
64	An elaborate structure investigation of the chiral polymorph A-enriched zeolite beta. <i>CrystEngComm</i> , 2016, 18, 1782-1789.	2.6	19
65	Simple coordination complex-derived Ni NP anchored N-doped porous carbons with high performance for reduction of nitroarenes. <i>CrystEngComm</i> , 2017, 19, 6612-6619.	2.6	17
66	Quantified hole concentration in AlGa _N nanowires for high-performance ultraviolet emitters. <i>Nanoscale</i> , 2018, 10, 15980-15988.	5.6	17
67	Direct Growth of III-Nitride Nanowire-Based Yellow Light-Emitting Diode on Amorphous Quartz Using Thin Ti Interlayer. <i>Nanoscale Research Letters</i> , 2018, 13, 41.	5.7	17
68	Low-Dose Electron Microscopy Imaging of Electron Beam-Sensitive Crystalline Materials. <i>Accounts of Materials Research</i> , 2022, 3, 552-564.	11.7	17
69	Extensive Inspection of an Unconventional Mesoporous Silica Material at All Length-Scales. <i>Chemistry of Materials</i> , 2011, 23, 229-238.	6.7	14
70	Structure study of the tri-continuous mesoporous silica IBN-9 by electron crystallography. <i>Microporous and Mesoporous Materials</i> , 2011, 146, 88-96.	4.4	11
71	Creating extra pores in microporous carbon via a template strategy for a remarkable enhancement of ambient-pressure CO ₂ uptake. <i>Chemical Communications</i> , 2015, 51, 8683-8686.	4.1	11
72	A surface modification scheme for incorporation of nanocrystals in mesoporous silica matrix. <i>Journal of Solid State Chemistry</i> , 2005, 178, 2980-2986.	2.9	10

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73	Possible Misidentification of Heteroatom Species in Scanning Transmission Electron Microscopy Imaging of Zeolites. <i>Journal of Physical Chemistry C</i> , 2021, 125, 18952-18960.	3.1	8
74	A Stable Hexagonal Mesoporous Aluminophosphate Assembled from Preformed Aluminophosphate Precursors. <i>Chemistry Letters</i> , 2005, 34, 516-517.	1.3	7
75	Hydrothermal synthesis of single-crystalline mesoporous beta zeolite assisted by N-methyl-2-pyrrolidone. <i>RSC Advances</i> , 2014, 4, 39297-39300.	3.6	7
76	In situ synthesis of dye-doped stainless-steel-net-supported mesostructured silica film for solid-state laser material. <i>Microporous and Mesoporous Materials</i> , 2007, 102, 95-100.	4.4	5
77	Nitrogen-Doped Nanoporous Carbons through Direct Carbonization of a Metal-Biomolecule Framework for Supercapacitor. <i>Chinese Journal of Chemistry</i> , 2016, 34, 203-209.	4.9	5
78	Zeolite structure determination using electron crystallography. <i>Studies in Surface Science and Catalysis</i> , 2008, 174, 799-804.	1.5	3
79	Cryo Focused Ion Beam Applications in High Resolution Electron Microscopy Studies of Beam Sensitive Crystals. <i>Microscopy and Microanalysis</i> , 2019, 25, 1402-1403.	0.4	3
80	Tailoring interfacial microenvironment of palladium-zeolite catalysts for the efficient low-temperature hydrodeoxygenation of vanillin in water. <i>ChemCatChem</i> , 2022, 14, .	3.7	3
81	Quantitative Electron Diffraction for Crystal Structure Determination. <i>Materials Research Society Symposia Proceedings</i> , 2009, 1184, 31.	0.1	0
82	3D Structure Determination from HRTEM and Electron Diffraction Tomography. <i>Microscopy and Microanalysis</i> , 2009, 15, 56-57.	0.4	0
83	Advancing Atomic-Resolution TEM of Electron Beam-Sensitive Crystalline Materials from "Impossible" to "Routine". <i>Microscopy and Microanalysis</i> , 2019, 25, 1676-1677.	0.4	0
84	Transmission electron microscopy studies of metal organic framework structures (MOFs). <i>Scientia Sinica Chimica</i> , 2014, 44, 229-235.	0.4	0