

Lingmei Liu

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

54
papers

2,909
citations

26
h-index

53
g-index

57
ext. papers

4,081
ext. citations

14.6
avg. IF

5.48
L-index

#	Paper	IF	Citations
54	Free-standing homochiral 2D monolayers by exfoliation of molecular crystals.. <i>Nature</i> , 2022 , 602, 606-614	10.4	14
53	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 ,	16.4	3
52	Short-Range Ordered Iridium Single Atoms Integrated into Cobalt Oxide Spinel Structure for Highly Efficient Electrocatalytic Water Oxidation. <i>Journal of the American Chemical Society</i> , 2021 , 143, 5201-5211	16.4	98
51	Highly Active Heterogeneous Catalyst for Ethylene Dimerization Prepared by Selectively Doping Ni on the Surface of a Zeolitic Imidazolate Framework. <i>Journal of the American Chemical Society</i> , 2021 , 143, 7144-7153	16.4	15
50	Molecular Scalpel to Chemically Cleave Metal-Organic Frameworks for Induced Phase Transition. <i>Journal of the American Chemical Society</i> , 2021 , 143, 6681-6690	16.4	26
49	Gas-sieving zeolitic membranes fabricated by condensation of precursor nanosheets. <i>Nature Materials</i> , 2021 , 20, 362-369	27	36
48	Liquid Nanoparticles: Manipulating the Nucleation and Growth of Nanoscale Droplets. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 3047-3054	16.4	4
47	Noble metal nanowire arrays as an ethanol oxidation electrocatalyst. <i>Nanoscale Advances</i> , 2021 , 3, 177-181	3.1	2
46	Liquid Nanoparticles: Manipulating the Nucleation and Growth of Nanoscale Droplets. <i>Angewandte Chemie</i> , 2021 , 133, 3084-3091	3.6	0
45	Probing the Catalytic Active Sites of Mo/HZSM-5 and Their Deactivation during Methane Dehydroaromatization. <i>Cell Reports Physical Science</i> , 2021 , 2, 100309	6.1	6
44	Rücktitelbild: Liquid Nanoparticles: Manipulating the Nucleation and Growth of Nanoscale Droplets (Angew. Chem. 6/2021). <i>Angewandte Chemie</i> , 2021 , 133, 3352-3352	3.6	
43	Single-Crystalline Ultrathin 2D Porous Nanosheets of Chiral Metal-Organic Frameworks. <i>Journal of the American Chemical Society</i> , 2021 , 143, 3509-3518	16.4	28
42	Possible Misidentification of Heteroatom Species in Scanning Transmission Electron Microscopy Imaging of Zeolites. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 18952-18960	3.8	2
41	The Complex Crystal Structure and Abundant Local Defects of Zeolite EMM-17 Unraveled by Combined Electron Crystallography and Microscopy. <i>Angewandte Chemie</i> , 2021 , 133, 24429	3.6	
40	The Complex Crystal Structure and Abundant Local Defects of Zeolite EMM-17 Unraveled by Combined Electron Crystallography and Microscopy. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 24227-24233	16.4	1
39	Propane Dehydrogenation Catalyzed by Isolated Pt Atoms in ?SiOZn-OH Nests in Dealuminated Zeolite Beta. <i>Journal of the American Chemical Society</i> , 2021 ,	16.4	19
38	Photoluminescent Ferroelectric LiNbO3 Crystals Grown from MXenes. <i>Advanced Functional Materials</i> , 2020 , 30, 1909843	15.6	6

37	Investigating the Origin of Enhanced C Selectivity in Oxide-/Hydroxide-Derived Copper Electrodes during CO Electroreduction. <i>Journal of the American Chemical Society</i> , 2020 , 142, 4213-4222	16.4	109
36	Engineering effective structural defects of metal-organic frameworks to enhance their catalytic performances. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 4464-4472	13	31
35	Atomic-Resolution Imaging of Halide Perovskites Using Electron Microscopy. <i>Advanced Energy Materials</i> , 2020 , 10, 1904006	21.8	32
34	Designing Sub-2 nm Organosilica Nanohybrids for Far-Field Super-Resolution Imaging. <i>Angewandte Chemie</i> , 2020 , 132, 756-761	3.6	2
33	Designing Sub-2 nm Organosilica Nanohybrids for Far-Field Super-Resolution Imaging. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 746-751	16.4	16
32	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	16.4	63
31	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	3.6	23
30	Nanoscale pathways for human tooth decay - Central planar defect, organic-rich precipitate and high-angle grain boundary. <i>Biomaterials</i> , 2020 , 235, 119748	15.6	15
29	Self-Assembly of Highly Stable Zirconium(IV) Coordination Cages with Aggregation Induced Emission Molecular Rotors for Live-Cell Imaging. <i>Angewandte Chemie</i> , 2020 , 132, 10237-10245	3.6	8
28	Self-Assembly of Highly Stable Zirconium(IV) Coordination Cages with Aggregation Induced Emission Molecular Rotors for Live-Cell Imaging. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 10151-10159	16.4	55
27	Strain stabilized nickel hydroxide nanoribbons for efficient water splitting. <i>Energy and Environmental Science</i> , 2020 , 13, 229-237	35.4	43
26	Bulk and local structures of metal-organic frameworks unravelled by high-resolution electron microscopy. <i>Communications Chemistry</i> , 2020 , 3,	6.3	20
25	Uniform High-k Amorphous Native Oxide Synthesized by Oxygen Plasma for Top-Gated Transistors. <i>Nano Letters</i> , 2020 , 20, 7469-7475	11.5	14
24	Extension of Surface Organometallic Chemistry to Metal-Organic Frameworks: Development of a Well-Defined Single Site [(Zr-O)W(O)(CHBu)] Olefin Metathesis Catalyst. <i>Journal of the American Chemical Society</i> , 2020 , 142, 16690-16703	16.4	19
23	Self-Assembly of Nanoparticles in a Modular Fashion to Prepare Multifunctional Catalysts for Cascade Reactions: From Simplicity to Complexity. <i>ACS Omega</i> , 2019 , 4, 1549-1559	3.9	4
22	Hollow capsules of doped carbon incorporating metal@metal sulfide and metal@metal oxide core-shell nanoparticles derived from metal-organic framework composites for efficient oxygen electrocatalysis. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 3624-3631	13	40
21	Photoinduced synthesis of Bi ₂ O ₃ nanotubes based on oriented attachment. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 1424-1428	13	6
20	Two-dimensional semiconducting covalent organic frameworks via condensation at arylmethyl carbon atoms. <i>Nature Communications</i> , 2019 , 10, 2467	17.4	218

19	Imaging defects and their evolution in a metal-organic framework at sub-unit-cell resolution. <i>Nature Chemistry</i> , 2019 , 11, 622-628	17.6	211
18	On demand synthesis of hollow fullerene nanostructures. <i>Nature Communications</i> , 2019 , 10, 1548	17.4	32
17	A New Type of Capping Agent in Nanoscience: Metal Cations. <i>Small</i> , 2019 , 15, e1900444	11	4
16	Metal Halide Perovskite Nanosheet for X-ray High-Resolution Scintillation Imaging Screens. <i>ACS Nano</i> , 2019 , 13, 2520-2525	16.7	218
15	Cryo Focused Ion Beam Applications in High Resolution Electron Microscopy Studies of Beam Sensitive Crystals. <i>Microscopy and Microanalysis</i> , 2019 , 25, 1402-1403	0.5	2
14	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	16.4	47
13	Emergence of multiple fluorophores in individual cesium lead bromide nanocrystals. <i>Nature Communications</i> , 2019 , 10, 2930	17.4	31
12	Modulation of b-axis thickness within MFI zeolite: Correlation with variation of product diffusion and coke distribution in the methanol-to-hydrocarbons conversion. <i>Applied Catalysis B: Environmental</i> , 2019 , 243, 721-733	21.8	38
11	Direct Imaging of Isolated Single-Molecule Magnets in Metal-Organic Frameworks. <i>Journal of the American Chemical Society</i> , 2019 , 141, 2997-3005	16.4	48
10	Atomic-resolution transmission electron microscopy of electron beam-sensitive crystalline materials. <i>Science</i> , 2018 , 359, 675-679	33.3	242
9	Ordered macro-microporous metal-organic framework single crystals. <i>Science</i> , 2018 , 359, 206-210	33.3	570
8	Catalytic amino acid production from biomass-derived intermediates. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 5093-5098	11.5	107
7	Dual-template engineering of triple-layered nanoarray electrode of metal chalcogenides sandwiched with hydrogen-substituted graphdiyne. <i>Nature Communications</i> , 2018 , 9, 3132	17.4	60
6	Sinter-resistant metal nanoparticle catalysts achieved by immobilization within zeolite crystals via seed-directed growth. <i>Nature Catalysis</i> , 2018 , 1, 540-546	36.5	175
5	Morphological Map of ZIF-8 Crystals with Five Distinctive Shapes: Feature of Filler in Mixed-Matrix Membranes on C3H6/C3H8 Separation. <i>Chemistry of Materials</i> , 2018 , 30, 3467-3473	9.6	48
4	Converting Hierarchical to Bulk Structure: A Strategy for Encapsulating Metal Oxides and Noble Metals in Zeolites. <i>Chemistry of Materials</i> , 2018 , 30, 6361-6369	9.6	30
3	Absorptive Hydrogen Scavenging for Enhanced Aromatics Yield During Non-oxidative Methane Dehydroaromatization on Mo/H-ZSM-5 Catalysts. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 15577-15582	16.4	16
2	Absorptive Hydrogen Scavenging for Enhanced Aromatics Yield During Non-oxidative Methane Dehydroaromatization on Mo/H-ZSM-5 Catalysts. <i>Angewandte Chemie</i> , 2018 , 130, 15803-15808	3.6	10

- 1 Microporous cokes formed in zeolite catalysts enable efficient solar evaporation. *Journal of Materials Chemistry A*, **2017**, 5, 6860-6865 13 41