

Tom Willhammar

List of Publications by Year in descending order

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Version: 2024-02-01

55
papers

2,187
citations

257450

24
h-index

223800

46
g-index

61
all docs

61
docs citations

61
times ranked

2828
citing authors

#	ARTICLE	IF	CITATIONS
1	Gas sorption properties and kinetics of porous bismuth-based metal-organic frameworks and the selective CO ₂ and SF ₆ sorption on a new bismuth trimesate-based structure UU-200. <i>Microporous and Mesoporous Materials</i> , 2022, 329, 111548.	4.4	19
2	NH ₃ -SCR catalysts for heavy-duty diesel vehicles: Preparation of CHA-type zeolites with low-cost templates. <i>Applied Catalysis B: Environmental</i> , 2022, 303, 120928.	20.2	18
3	Single-walled zeolitic nanotubes. <i>Science</i> , 2022, 375, 62-66.	12.6	25
4	Metal-organic biomolecule frameworks (BioMOFs): a novel approach for green optoelectronic applications. <i>Chemical Communications</i> , 2022, 58, 677-680.	4.1	7
5	A structure determination protocol based on combined analysis of 3D-ED data, powder XRD data, solid-state NMR data and DFT-D calculations reveals the structure of a new polymorph of L-tyrosine. <i>Chemical Science</i> , 2022, 13, 5277-5288.	7.4	15
6	Design and degradation of permanently porous vitamin C and zinc-based metal-organic framework. <i>Communications Chemistry</i> , 2022, 5, .	4.5	4
7	Structure of the active pharmaceutical ingredient bismuth subsalicylate. <i>Nature Communications</i> , 2022, 13, 1984.	12.8	22
8	An adsorbent with flexible nanoscopic pores. <i>Science</i> , 2022, 376, 457-458.	12.6	3
9	Tunable CHA/AEI Zeolite Intergrowths with A Priori Biselective Organic Structure-Directing Agents: Controlling Enrichment and Implications for Selective Catalytic Reduction of NO _x . <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	13.8	18
10	Two-Dimensional Cationic Aluminoborate as a New Paradigm for Highly Selective and Efficient Cr(VI) Capture from Aqueous Solution. <i>Jacs Au</i> , 2022, 2, 1669-1678.	7.9	1
11	Aluminosilicate Zeolite EMM-28 Containing Supercavities Determined by Continuous Rotation Electron Diffraction. <i>Inorganic Chemistry</i> , 2022, 61, 11103-11109.	4.0	2
12	Three-dimensional electron diffraction for porous crystalline materials: structural determination and beyond. <i>Chemical Science</i> , 2021, 12, 1206-1219.	7.4	44
13	Local Crystallinity in Twisted Cellulose Nanofibers. <i>ACS Nano</i> , 2021, 15, 2730-2737.	14.6	53
14	A Tunable Multivariate Metal-Organic Framework as a Platform for Designing Photocatalysts. <i>Journal of the American Chemical Society</i> , 2021, 143, 6333-6338.	13.7	69
15	Facile Processing of Transparent Wood Nanocomposites with Structural Color from Plasmonic Nanoparticles. <i>Chemistry of Materials</i> , 2021, 33, 3736-3745.	6.7	32
16	EMM-25: The Structure of Two-Dimensional 11 Å– 10 Medium-Pore Borosilicate Zeolite Unraveled Using 3D Electron Diffraction. <i>Chemistry of Materials</i> , 2021, 33, 4146-4153.	6.7	11
17	Synthesis and Structure of a 22 Å– 12 Å– 12 Extra-Large Pore Zeolite ITQ-56 Determined by 3D Electron Diffraction. <i>Journal of the American Chemical Society</i> , 2021, 143, 8713-8719.	13.7	22
18	A priori control of zeolite phase competition and intergrowth with high-throughput simulations. <i>Science</i> , 2021, 374, 308-315.	12.6	90

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19	Structure-property relationships in organic battery anode materials: exploring redox reactions in crystalline Na- and Li-benzene diacrylate using combined crystallography and density functional theory calculations. <i>Materials Advances</i> , 2021, 2, 1024-1034.	5.4	7
20	A Novel Porous Ti-Sulfate as Efficient Photocatalyst in the Overall Water Splitting Reaction under Simulated Sunlight Irradiation. <i>Advanced Materials</i> , 2021, 33, e2106627.	21.0	35
21	Microcavity-like exciton-polaritons can be the primary photoexcitation in bare organic semiconductors. <i>Nature Communications</i> , 2021, 12, 6519.	12.8	32
22	Influence of Synthesis Routes on the Crystallography, Morphology, and Electrochemistry of Li_2MnO_3 . <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 5939-5950.	8.0	20
23	Hierarchical micro-reactor as electrodes for water splitting by metal rod tipped carbon nanocapsule self-assembly in carbonized wood. <i>Applied Catalysis B: Environmental</i> , 2020, 264, 118536.	20.2	25
24	A Robust and Biocompatible Bismuth Ellagate MOF Synthesized Under Green Ambient Conditions. <i>Journal of the American Chemical Society</i> , 2020, 142, 16795-16804.	13.7	115
25	Influence of the substitution pattern of four naphthalenedicarboxylic acids on the structures and properties of group 13 metal-organic frameworks and coordination polymers. <i>Dalton Transactions</i> , 2020, 49, 4861-4868.	3.3	9
26	Introducing the crystalline phase of dicalcium phosphate monohydrate. <i>Nature Communications</i> , 2020, 11, 1546.	12.8	26
27	Mesoscale Transformation of Amorphous Calcium Carbonate to Porous Vaterite Microparticles with Morphology Control. <i>Crystal Growth and Design</i> , 2019, 19, 5075-5087.	3.0	27
28	Scan Strategies for Electron Energy Loss Spectroscopy at Optical and Vibrational Energies in Perylene Diimide Nanobelts. <i>Microscopy and Microanalysis</i> , 2019, 25, 1738-1739.	0.4	1
29	Small Pore Aluminosilicate EMM-37: Synthesis and Structure Determination Using Continuous Rotation Electron Diffraction. <i>Inorganic Chemistry</i> , 2019, 58, 12854-12858.	4.0	7
30	Phase Transformation Behavior of a Two-Dimensional Zeolite. <i>Angewandte Chemie</i> , 2019, 131, 10336-10341.	2.0	1
31	Phase Transformation Behavior of a Two-Dimensional Zeolite. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 10230-10235.	13.8	3
32	A Titanium-Based Metal-Organic Framework Featuring Defect-Rich TiO Sheets as an Oxidative Desulfurization Catalyst. <i>Angewandte Chemie</i> , 2019, 131, 9258-9263.	2.0	37
33	A Titanium-Based Metal-Organic Framework Featuring Defect-Rich TiO Sheets as an Oxidative Desulfurization Catalyst. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 9160-9165.	13.8	99
34	Transmission electron microscopy as an important tool for characterization of zeolite structures. <i>Inorganic Chemistry Frontiers</i> , 2018, 5, 2836-2855.	6.0	29
35	Detailed Structural Survey of the Zeolite ITQ-39 by Electron Crystallography. <i>Crystal Growth and Design</i> , 2017, 17, 1910-1917.	3.0	4
36	Gel-based morphological design of zirconium metal-organic frameworks. <i>Chemical Science</i> , 2017, 8, 3939-3948.	7.4	177

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37	Structure and vacancy distribution in copper telluride nanoparticles influence plasmonic activity in the near-infrared. <i>Nature Communications</i> , 2017, 8, 14925.	12.8	38
38	Postsynthetic High-Alumina Zeolite Crystal Engineering in Organic-Free Hyper-Alkaline Media. <i>Chemistry of Materials</i> , 2017, 29, 629-638.	6.7	17
39	High-Throughput Synthesis and Structure of Zeolite ZSM-43 with Two-Directional 8-Ring Channels. <i>Inorganic Chemistry</i> , 2017, 56, 8856-8864.	4.0	15
40	Post-synthesis bromination of benzene bridged PMO as a way to create a high potential hybrid material. <i>Microporous and Mesoporous Materials</i> , 2016, 236, 244-249.	4.4	9
41	A Germanate with a Collapsible Open-Framework. <i>Crystal Growth and Design</i> , 2016, 16, 6967-6973.	3.0	4
42	Luminescent CuInS ₂ Quantum Dots by Partial Cation Exchange in Cu ₂ S Nanocrystals. <i>Chemistry of Materials</i> , 2015, 27, 621-628.	6.7	127
43	Self-Assembly of Pluronic F127-Silica Spherical Core-Shell Nanoparticles in Cubic Close-Packed Structures. <i>Chemistry of Materials</i> , 2015, 27, 5161-5169.	6.7	47
44	Structural Determination of Ordered Porous Solids by Electron Crystallography. <i>Advanced Functional Materials</i> , 2014, 24, 182-199.	14.9	51
45	3D reconstruction of atomic structures from high angle annular dark field (HAADF) STEM images and its application on zeolite silicalite-1. <i>Dalton Transactions</i> , 2014, 43, 14158-14163.	3.3	12
46	EMM-23: A Stable High-Silica Multidimensional Zeolite with Extra-Large Trilobe-Shaped Channels. <i>Journal of the American Chemical Society</i> , 2014, 136, 13570-13573.	13.7	71
47	Solving complex open-framework structures from X-ray powder diffraction by direct-space methods using composite building units. <i>Journal of Applied Crystallography</i> , 2013, 46, 1094-1104.	4.5	10
48	A Stacking Faults-Containing Silicogermanate with 24-Ring Channels and Unbranched Zweier Silica Double Chains. <i>Crystal Growth and Design</i> , 2012, 12, 3714-3719.	3.0	9
49	Synthesis Design and Structure of a Multipore Zeolite with Interconnected 12- and 10-MR Channels. <i>Journal of the American Chemical Society</i> , 2012, 134, 6473-6478.	13.7	75
50	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
51	ZSM-5 Zeolite Single Crystals with <i>b</i> -Axis-Aligned Mesoporous Channels as an Efficient Catalyst for Conversion of Bulky Organic Molecules. <i>Journal of the American Chemical Society</i> , 2012, 134, 4557-4560.	13.7	264
52	Synthesis of Al-Si-beta and Ti-Si-beta by the aging-drying method. <i>Microporous and Mesoporous Materials</i> , 2012, 150, 38-46.	4.4	15
53	A New Aluminosilicate Molecular Sieve with a System of Pores between Those of ZSM-5 and Beta Zeolite. <i>Journal of the American Chemical Society</i> , 2011, 133, 9497-9505.	13.7	86
54	Synthesis and characterization of pure silica zeolite beta obtained by an aging-drying method. <i>Microporous and Mesoporous Materials</i> , 2011, 143, 196-205.	4.4	40

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55	Tunable CHA/AEI Zeolite Intergrowths with A Priori Biselective Organic Structureâ€Directing Agents: Controlling Enrichment and Implications for Selective Catalytic Reduction of NOx. Angewandte Chemie, 0, , .	2.0	1