

Watcharop Chaikittisilp

List of Publications by Year in descending order

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70
papers

4,970
citations

117571

34
h-index

95218

68
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all docs

76
docs citations

76
times ranked

6163
citing authors

#	ARTICLE	IF	CITATIONS
1	A new family of carbon materials: synthesis of MOF-derived nanoporous carbons and their promising applications. <i>Journal of Materials Chemistry A</i> , 2013, 1, 14-19.	5.2	739
2	Nanoporous carbons through direct carbonization of a zeolitic imidazolate framework for supercapacitor electrodes. <i>Chemical Communications</i> , 2012, 48, 7259.	2.2	624
3	Synthesis of Nanoporous Carbon-Cobalt-Oxide Hybrid Electrocatalysts by Thermal Conversion of Metal-Organic Frameworks. <i>Chemistry - A European Journal</i> , 2014, 20, 4217-4221.	1.7	253
4	Mesoporous Alumina-Supported Amines as Potential Steam-Stable Adsorbents for Capturing CO ₂ from Simulated Flue Gas and Ambient Air. <i>Energy & Fuels</i> , 2011, 25, 5528-5537.	2.5	252
5	Amine-Oxide Hybrid Materials for CO ₂ Capture from Ambient Air. <i>Accounts of Chemical Research</i> , 2015, 48, 2680-2687.	7.6	222
6	Poly(allylamine)-Mesoporous Silica Composite Materials for CO ₂ Capture from Simulated Flue Gas or Ambient Air. <i>Industrial & Engineering Chemistry Research</i> , 2011, 50, 14203-14210.	1.8	175
7	MOF-derived Nanoporous Carbon as Intracellular Drug Delivery Carriers. <i>Chemistry Letters</i> , 2014, 43, 717-719.	0.7	165
8	Critical Factors in the Seed-Assisted Synthesis of Zeolite Beta and "Green Beta" from OSDA-Free Na ⁺ Aluminosilicate Gels. <i>Chemistry - an Asian Journal</i> , 2010, 5, 2182-2191.	1.7	158
9	Structure-Directing Behaviors of Tetraethylammonium Cations toward Zeolite Beta Revealed by the Evolution of Aluminosilicate Species Formed during the Crystallization Process. <i>Journal of the American Chemical Society</i> , 2015, 137, 14533-14544.	6.6	140
10	Formation of Hierarchically Organized Zeolites by Sequential Intergrowth. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 3355-3359.	7.2	124
11	Widening Synthesis Bottlenecks: Realization of Ultrafast and Continuous-Flow Synthesis of High-Silica Zeolite SSZ-13 for NO _x Removal. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 5683-5687.	7.2	121
12	Porous Siloxane-Organic Hybrid with Ultrahigh Surface Area through Simultaneous Polymerization-Destruction of Functionalized Cubic Siloxane Cages. <i>Journal of the American Chemical Society</i> , 2011, 133, 13832-13835.	6.6	115
13	Silica Sodalite without Occluded Organic Matters by Topotactic Conversion of Lamellar Precursor. <i>Journal of the American Chemical Society</i> , 2008, 130, 15780-15781.	6.6	94
14	Hybrid Porous Materials with High Surface Area Derived from Bromophenylethynyl-Functionalized Cubic Siloxane-Based Building Units. <i>Chemistry - A European Journal</i> , 2010, 16, 6006-6014.	1.7	94
15	Oxidative Stability of Amino Polymer-Alumina Hybrid Adsorbents for Carbon Dioxide Capture. <i>Energy & Fuels</i> , 2013, 27, 1547-1554.	2.5	92
16	Poly(L-lysine) Brush-Mesoporous Silica Hybrid Material as a Biomolecule-Based Adsorbent for CO ₂ Capture from Simulated Flue Gas and Air. <i>Chemistry - A European Journal</i> , 2011, 17, 10556-10561.	1.7	89
17	Energy Analysis of Aluminosilicate Zeolites with Comprehensive Ranges of Framework Topologies, Chemical Compositions, and Aluminum Distributions. <i>Journal of the American Chemical Society</i> , 2016, 138, 6184-6193.	6.6	84
18	Material Evolution with Nanotechnology, Nanoarchitectonics, and Materials Informatics: What will be the Next Paradigm Shift in Nanoporous Materials?. <i>Advanced Materials</i> , 2022, 34, e2107212.	11.1	81

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19	Microporous Hybrid Polymer with a Certain Crystallinity Built from Functionalized Cubic Siloxane Cages as a Singular Building Unit. <i>Chemistry of Materials</i> , 2010, 22, 4841-4843.	3.2	80
20	Linking synthesis and structure descriptors from a large collection of synthetic records of zeolite materials. <i>Nature Communications</i> , 2019, 10, 4459.	5.8	74
21	Organic-Free Synthesis of a Highly Siliceous Faujasite Zeolite with Spatially Biased Q ⁴ (<i>n</i> Al) Si Speciation. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 13366-13371.	7.2	62
22	TPA-Mediated Conversion of Silicon Wafer into Preferentially-Oriented MFI Zeolite Film under Steaming. <i>Chemistry of Materials</i> , 2007, 19, 4120-4122.	3.2	58
23	Directing Aluminum Atoms into Energetically Favorable Tetrahedral Sites in a Zeolite Framework by Using Organic Structure-Directing Agents. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 3742-3746.	7.2	55
24	Tracking the rearrangement of atomic configurations during the conversion of FAU zeolite to CHA zeolite. <i>Chemical Science</i> , 2019, 10, 8533-8540.	3.7	52
25	Vapor-Phase Transport as A Novel Route to Hyperbranched Polyamine-Oxide Hybrid Materials. <i>Chemistry of Materials</i> , 2013, 25, 613-622.	3.2	51
26	Porous inorganic-organic hybrid polymers derived from cyclic siloxane building blocks: Effects of substituting groups on mesoporous structures. <i>Microporous and Mesoporous Materials</i> , 2019, 278, 212-218.	2.2	46
27	Characterization of a Mixture of CO ₂ Adsorption Products in Hyperbranched Aminosilica Adsorbents by ¹³ C Solid-State NMR. <i>Environmental Science & Technology</i> , 2015, 49, 13684-13691.	4.6	45
28	Analysis of solid particle mixing in inclined fluidized beds using DEM simulation. <i>Chemical Engineering Journal</i> , 2006, 122, 21-29.	6.6	43
29	Incorporation process of Ti species into the framework of MFI type zeolite. <i>Microporous and Mesoporous Materials</i> , 2008, 112, 202-210.	2.2	42
30	Factors Governing the Formation of Hierarchically and Sequentially Intergrown MFI Zeolites by Using Simple Diquaternary Ammonium Structure-Directing Agents. <i>Chemistry of Materials</i> , 2016, 28, 8997-9007.	3.2	41
31	Role of Acidic Pretreatment of Layered Silicate RUB-15 in Its Topotactic Conversion into Pure Silica Sodalite. <i>Chemistry of Materials</i> , 2011, 23, 3564-3570.	3.2	39
32	Mesoporous trimetallic PtPdAu alloy films toward enhanced electrocatalytic activity in methanol oxidation: unexpected chemical compositions discovered by Bayesian optimization. <i>Journal of Materials Chemistry A</i> , 2020, 8, 13532-13540.	5.2	39
33	Aziridine-Functionalized Mesoporous Silica Membranes on Polymeric Hollow Fibers: Synthesis and Single-Component CO ₂ and N ₂ Permeation Properties. <i>Industrial & Engineering Chemistry Research</i> , 2015, 54, 4407-4413.	1.8	38
34	Crystallization behavior of zeolite beta with balanced incorporation of silicon and aluminum synthesized from alkali metal cation-free mixture. <i>Microporous and Mesoporous Materials</i> , 2008, 116, 188-195.	2.2	33
35	Oriented Films of Porous Coordination Polymer Prepared by Repeated in Situ Crystallization. <i>Chemistry of Materials</i> , 2008, 20, 2887-2889.	3.2	33
36	Materials informatics-guided superior electrocatalyst: A case of pyrolysis-free single-atom coordinated with N-graphene nanomesh. <i>Nano Energy</i> , 2022, 94, 106868.	8.2	31

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37	Fabrication of hierarchical Lewis acid Sn-BEA with tunable hydrophobicity for cellulosic sugar isomerization. <i>Microporous and Mesoporous Materials</i> , 2019, 278, 387-396.	2.2	30
38	Broadening the Applicable Scope of Seed-Directed, Organic Structure-Directing Agent-Free Synthesis of Zeolite to Zincosilicate Components: A Case of VET-Type Zincosilicate Zeolites. <i>Chemistry of Materials</i> , 2014, 26, 1957-1966.	3.2	29
39	Organic-Free Synthesis of a Highly Siliceous Faujasite Zeolite with Spatially Biased Q 4 (n Al) Si Speciation. <i>Angewandte Chemie</i> , 2017, 129, 13551-13556.	1.6	27
40	Mesoporous architectures with highly crystallized frameworks. <i>Journal of Materials Chemistry A</i> , 2014, 2, 12096-12103.	5.2	26
41	Organic structure-directing agent-free synthesis of NES-type zeolites using EU-1 seed crystals. <i>Microporous and Mesoporous Materials</i> , 2015, 215, 191-198.	2.2	22
42	Multi-objective <i>de novo</i> molecular design of organic structure-directing agents for zeolites using nature-inspired ant colony optimization. <i>Chemical Science</i> , 2020, 11, 8214-8223.	3.7	22
43	Phenyl-Modified Carbon Nitride Quantum Nanoflakes for Ultra-Highly Selective Sensing of Formic Acid: A Combined Experimental by QCM and Density Functional Theory Study. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 48595-48610.	4.0	22
44	Template- and etching-free fabrication of two-dimensional hollow bimetallic metal-organic framework hexagonal nanoplates for ammonia sensing. <i>Chemical Engineering Journal</i> , 2022, 450, 138065.	6.6	22
45	Ultrafast synthesis of AFX-Type zeolite with enhanced activity in the selective catalytic reduction of NOx and hydrothermal stability. <i>RSC Advances</i> , 2019, 9, 16790-16796.	1.7	19
46	Surfactant-free synthesis of hollow mesoporous organosilica nanoparticles with controllable particle sizes and diversified organic moieties. <i>RSC Advances</i> , 2016, 6, 90435-90445.	1.7	18
47	Organic-free synthesis of zincaluminosilicate zeolites from homogeneous gels prepared by a co-precipitation method. <i>Dalton Transactions</i> , 2017, 46, 10837-10846.	1.6	16
48	Interrogating the Carbon and Oxygen K-Edge NEXAFS of a CO ₂ -Dosed Hyperbranched Aminosilica. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 148-152.	2.1	15
49	Synthesis of New Microporous Zincosilicates with CHA Zeolite Topology as Efficient Platforms for Ion-Exchange of Divalent Cations. <i>Chemistry - A European Journal</i> , 2018, 24, 808-812.	1.7	15
50	A general method to synthesize a family of mesoporous silica nanoparticles less than 100Ånm and their applications in anti-reflective/fogging coating. <i>Journal of Materials Science</i> , 2016, 51, 6192-6206.	1.7	14
51	Resolving the Framework Position of Organic Structure-Directing Agents in Hierarchical Zeolites via Polarized Stimulated Raman Scattering. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 1778-1782.	2.1	14
52	Directing Aluminum Atoms into Energetically Favorable Tetrahedral Sites in a Zeolite Framework by Using Organic Structure-Directing Agents. <i>Angewandte Chemie</i> , 2018, 130, 3804-3808.	1.6	14
53	Insights into the ion-exchange properties of Zn(II)-incorporated MOR zeolites for the capture of multivalent cations. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 4015-4021.	1.3	14
54	Azobenzene-siloxane hybrids with lamellar structures from bridge-type alkoxysilyl precursors. <i>RSC Advances</i> , 2014, 4, 25319-25325.	1.7	13

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55	Crystallization of a Novel Germanosilicate ECNUâ€16 Provides Insights into the Spaceâ€Filling Effect on Zeolite Crystal Symmetry. <i>Chemistry - A European Journal</i> , 2018, 24, 9247-9253.	1.7	11
56	Increasing the ion-exchange capacity of MFI zeolites by introducing Zn to aluminosilicate frameworks. <i>Dalton Transactions</i> , 2018, 47, 9546-9553.	1.6	7
57	Crucial Factors for Seed-Directed Synthesis of CON-type Aluminoborosilicate Zeolites Using Tetraethylammonium. <i>Crystal Growth and Design</i> , 2019, 19, 5283-5291.	1.4	6
58	No more trial and error for zeolites. <i>Science</i> , 2021, 374, 257-258.	6.0	6
59	Bridging the Gap between Structurally Distinct 2D Lamellar Zeolitic Precursors through a 3D Germanosilicate Intermediate. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 14529-14533.	7.2	5
60	Optimized ultrafast flow synthesis of CON-type zeolite and improvement of its catalytic properties. <i>Reaction Chemistry and Engineering</i> , 2020, 5, 2260-2266.	1.9	5
61	Two-Stage Crystallization of Meso- and Macroporous MFI and MEL Zeolites Using Tributylamine-Derived Diquaternary Ammonium Cations as Organic Structure-Directing Agents. <i>Bulletin of the Chemical Society of Japan</i> , 2017, 90, 586-594.	2.0	4
62	Rational Manipulation of Stacking Arrangements in Threeâ€Dimensional Zeolites Built from Twoâ€Dimensional Zeolitic Nanosheets. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 19934-19939.	7.2	4
63	Highly nanoporous silicas with pore apertures near the boundary between micro- and mesopores through an orthogonal self-assembly approach. <i>Chemical Communications</i> , 2015, 51, 10718-10721.	2.2	3
64	Bridging the Gap between Structurally Distinct 2D Lamellar Zeolitic Precursors through a 3D Germanosilicate Intermediate. <i>Angewandte Chemie</i> , 2019, 131, 14671-14675.	1.6	2
65	Hierarchically Porous ZSM-5 Synthesized by Nonionic- and Cationic-Templating Routes and Their Catalytic Activity in Liquid-Phase Esterification. <i>ITB Journal of Science</i> , 2011, 43, 59-72.	0.1	1
66	Synthesis of (Silico)aluminophosphate Molecular Sieves Using an Alkanolamine as a Novel Organic Structure-directing Agent. <i>Chemistry Letters</i> , 2015, 44, 1300-1302.	0.7	1
67	Synthesis of Microporous Zincosilicate *BEA Molecular Sieves from Zincosilicate Gels Co-precipitated in the Presence of an Organic Structure-directing Agent. <i>Chemistry Letters</i> , 2018, 47, 897-900.	0.7	1
68	Organicâ€Free Synthesis of a Highly Siliceous Faujasite Zeolite with Spatially Biased Q ⁴ Si Speciation (<i>Angew. Chem.</i> 43/2017). <i>Angewandte Chemie</i> , 2017, 129, 13718-13718.	1.6	0
69	Innentitelbild: Directing Aluminum Atoms into Energetically Favorable Tetrahedral Sites in a Zeolite Framework by Using Organic Structureâ€Directing Agents (<i>Angew. Chem.</i> 14/2018). <i>Angewandte Chemie</i> , 2018, 130, 3582-3582.	1.6	0
70	Rational Manipulation of Stacking Arrangements in Threeâ€Dimensional Zeolites Built from Twoâ€Dimensional Zeolitic Nanosheets. <i>Angewandte Chemie</i> , 2020, 132, 20106-20111.	1.6	0