Thomas Bein

List of Publications by Year
in descending order

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501	49,389	863 117	2071 204
papers	citations	h-index	g-index

544	544	544	44539
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Bright light-emitting diodes based on organometal halide perovskite. Nature Nanotechnology, 2014, 9, 687-692.	15.6	3,627
2	Reversible Hydration of CH₃NH₃PbI₃ in Films, Single Crystals, and Solar Cells. Chemistry of Materials, 2015, 27, 3397-3407.	3.2	1,133
3	Conducting Polyaniline Filaments in a Mesoporous Channel Host. Science, 1994, 264, 1757-1759.	6.0	1,082
4	Spherical Ordered Mesoporous Carbon Nanoparticles with High Porosity for Lithiumâ€“Sulfur Batteries. Angewandte Chemie - International Edition, 2012, 51, 3591-3595.	7.2	1,021
5	"Coulomb Staircase" at Room Temperature in a Self-Assembled Molecular Nanostructure. Science, 1996, 272, 1323-1325.	6.0	987
6	Inclusion Chemistry in Periodic Mesoporous Hosts. Chemistry of Materials, 1998, 10, 2950-2963.	3.2	919
7	Covalent Organic Frameworks: Structures, Synthesis, and Applications. Advanced Functional Materials, 2018, 28, 1705553.	7.8	892
8	Multifunctional Mesoporous Silica Nanoparticles as a Universal Platform for Drug Delivery. Chemistry of Materials, 2014, 26, 435-451.	3.2	780
9	Mechanism of Zeolite A Nanocrystal Growth from Colloids at Room Temperature. Science, 1999, 283, 958-960.	6.0	593
10	Highly stable, phase pure Cs₂AgBiBr₆ double perovskite thin films for optoelectronic applications. Journal of Materials Chemistry A, 2017, 5, 19972-19981.	5.2	509
11	Oriented Growth of the Metal Organic Framework Cu3(BTC)2(H2O)3Â·xH2O Tunable with Functionalized Self-Assembled Monolayers. Journal of the American Chemical Society, 2007, 129, 8054-8055.	6.6	499
12	Mesoporosity â€“ a new dimension for zeolites. Chemical Society Reviews, 2013, 42, 3689.	18.7	489
13	Stabilization of the Trigonal High-Temperature Phase of Formamidinium Lead Iodide. Journal of Physical Chemistry Letters, 2015, 6, 1249-1253.	2.1	477
14	Lower tidal volume strategy (â‰ˆ3Âml/kg) combined with extracorporeal CO2 removal versus â€˜conventionalâ€™ protective ventilation (6Âml/kg) in severe ARDS. Intensive Care Medicine, 2013, 39, 847-856.	3.9	474
15	Blue-Green Color Tunable Solution Processable Organolead Chlorideâ€“Bromide Mixed Halide Perovskites for Optoelectronic Applications. Nano Letters, 2015, 15, 6095-6101.	4.5	461
16	Iron-Doped Nickel Oxide Nanocrystals as Highly Efficient Electrocatalysts for Alkaline Water Splitting. ACS Nano, 2015, 9, 5180-5188.	7.3	446
17	Molecular docking sites designed for the generation of highly crystalline covalent organic frameworks. Nature Chemistry, 2016, 8, 310-316.	6.6	436
18	Synthesis and Applications of Molecular Sieve Layers and Membranesâ€. Chemistry of Materials, 1996, 8, 1636-1653.	3.2	433

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19	Structure and optical properties of cadmium sulfide superclusters in zeolite hosts. Journal of the American Chemical Society, 1989, 111, 530-540.	6.6	428
20	A Photoconductive Thienothiopheneâ€Based Covalent Organic Framework Showing Charge Transfer Towards Included Fullerene. Angewandte Chemie - International Edition, 2013, 52, 2920-2924.	7.2	385
21	Preparation of Single-Phase Films of CH₃NH₃Pb(I_{1â€“x}Br_x)₃ with Sharp Optical Band Edges. Journal of Physical Chemistry Letters, 2014, 5, 2501-2505.	2.1	385
22	Extracorporeal membrane oxygenation: evolving epidemiology and mortality. Intensive Care Medicine, 2016, 42, 889-896.	3.9	382
23	Colloidal Suspensions of Nanometer-Sized Mesoporous Silica. Advanced Functional Materials, 2007, 17, 605-612.	7.8	379
24	A new pumpless extracorporeal interventional lung assist in critical hypoxemia/hypercapnia*. Critical Care Medicine, 2006, 34, 1372-1377.	0.4	369
25	Conducting Carbon Wires in Ordered, Nanometer-Sized Channels. Science, 1994, 266, 1013-1015.	6.0	363
26	Extraction of Photogenerated Electrons and Holes from a Covalent Organic Framework Integrated Heterojunction. Journal of the American Chemical Society, 2014, 136, 17802-17807.	6.6	354
27	Three-Dimensional Titanium Dioxide Nanomaterials. Chemical Reviews, 2014, 114, 9487-9558.	23.0	349
28	Solution Depositionâ€Conversion for Planar Heterojunction Mixed Halide Perovskite Solar Cells. Advanced Energy Materials, 2014, 4, 1400355.	10.2	325
29	Oriented Films of Conjugated 2D Covalent Organic Frameworks as Photocathodes for Water Splitting. Journal of the American Chemical Society, 2018, 140, 2085-2092.	6.6	320
30	Ultrasmall Dispersible Crystalline Nickel Oxide Nanoparticles as Highâ€Performance Catalysts for Electrochemical Water Splitting. Advanced Functional Materials, 2014, 24, 3123-3129.	7.8	303
31	Capturing the Sun: A Review of the Challenges and Perspectives of Perovskite Solar Cells. Advanced Energy Materials, 2017, 7, 1700264.	10.2	295
32	Biotinâ€“Avidin as a Proteaseâ€Responsive Cap System for Controlled Guest Release from Colloidal Mesoporous Silica. Angewandte Chemie - International Edition, 2009, 48, 3092-3095.	7.2	278
33	Hybrid Perovskite/Perovskite Heterojunction Solar Cells. ACS Nano, 2016, 10, 5999-6007.	7.3	276
34	One-Step Synthesis of Hierarchical Zeolite Beta via Network Formation of Uniform Nanocrystals. Journal of the American Chemical Society, 2011, 133, 5284-5295.	6.6	272
35	Optoelectronic processes in covalent organic frameworks. Chemical Society Reviews, 2021, 50, 1813-1845.	18.7	264
36	High-throughput screening of synthesis parameters in the formation of the metal-organic frameworks MOF-5 and HKUST-1. Microporous and Mesoporous Materials, 2009, 117, 111-117.	2.2	263

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37	Capturing Ultrasmall EMT Zeolite from Template-Free Systems. Science, 2012, 335, 70-73.	6.0	260
38	A low cost azomethine-based hole transporting material for perovskite photovoltaics. Journal of Materials Chemistry A, 2015, 3, 12159-12162.	5.2	260
39	Room Temperature Synthesis of Covalentâ€“Organic Framework Films through Vapor-Assisted Conversion. Journal of the American Chemical Society, 2015, 137, 1016-1019.	6.6	257
40	Efficient Planar Heterojunction Perovskite Solar Cells Based on Formamidinium Lead Bromide. Journal of Physical Chemistry Letters, 2014, 5, 2791-2795.	2.1	250
41	Gold Nanoshells Improve Single Nanoparticle Molecular Sensors. Nano Letters, 2004, 4, 1853-1857.	4.5	246
42	Colloidal Suspensions of Functionalized Mesoporous Silica Nanoparticles. ACS Nano, 2008, 2, 791-799.	7.3	239
43	On the road towards electroactive covalent organic frameworks. Chemical Communications, 2014, 50, 5531-5546.	2.2	237
44	Multiple Coreâ^'Shell Functionalized Colloidal Mesoporous Silica Nanoparticles. Journal of the American Chemical Society, 2009, 131, 11361-11370.	6.6	226
45	Surface reactions on thin layers of silane coupling agents. Langmuir, 1993, 9, 2965-2973.	1.6	225
46	Impact of different PEGylation patterns on the long-term bio-stability of colloidal mesoporous silica nanoparticles. Journal of Materials Chemistry, 2010, 20, 8693.	6.7	223
47	Visualizing single-molecule diffusion in mesoporous materials. Nature, 2007, 450, 705-708.	13.7	221
48	Selective Functionalization of the Outer and Inner Surfaces in Mesoporous Silica Nanoparticles. Chemistry of Materials, 2008, 20, 7207-7214.	3.2	220
49	Imparting Functionality to MOF Nanoparticles by External Surface Selective Covalent Attachment of Polymers. Chemistry of Materials, 2016, 28, 3318-3326.	3.2	218
50	Electron Microscopy Reveals the Nucleation Mechanism of Zeolite Y from Precursor Colloids. Angewandte Chemie - International Edition, 1999, 38, 3201-3204.	7.2	213
51	Bio-degradation study of colloidal mesoporous silica nanoparticles: Effect of surface functionalization with organo-silanes and poly(ethylene glycol). Microporous and Mesoporous Materials, 2010, 132, 60-71.	2.2	213
52	Perylene-Based Covalent Organic Frameworks for Acid Vapor Sensing. Journal of the American Chemical Society, 2019, 141, 15693-15699.	6.6	212
53	Synthesis of Well-Ordered COF Monolayers: Surface Growth of Nanocrystalline Precursors versus Direct On-Surface Polycondensation. ACS Nano, 2011, 5, 9737-9745.	7.3	211
54	Exceptional Ion-Exchange Selectivity in a Flexible Open Framework Lanthanum(III)tetrakisphosphonate. Journal of the American Chemical Society, 2009, 131, 18112-18118.	6.6	209

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55	A Programmable DNAâ€Based Molecular Valve for Colloidal Mesoporous Silica. Angewandte Chemie - International Edition, 2010, 49, 4734-4737.	7.2	206
56	Synchronized Offset Stacking: A Concept for Growing Large-Domain and Highly Crystalline 2D Covalent Organic Frameworks. Journal of the American Chemical Society, 2016, 138, 16703-16710.	6.6	199
57	Variation of the Si/Al ratio in nanosized zeolite Beta crystals. Microporous and Mesoporous Materials, 2006, 90, 237-245.	2.2	197
58	Isoreticular Two-Dimensional Covalent Organic Frameworks Synthesized by On-Surface Condensation of Diboronic Acids. ACS Nano, 2012, 6, 7234-7242.	7.3	194
59	Inclusion of polyaniline filaments in zeolite molecular sieves. The Journal of Physical Chemistry, 1989, 93, 6270-6272.	2.9	191
60	Intrazeolite assembly of a chiral manganese salen epoxidation catalyst. Chemical Communications, 1997, , 901-902.	2.2	191
61	A Long-Term View on Perovskite Optoelectronics. Accounts of Chemical Research, 2016, 49, 339-346.	7.6	189
62	Sequential Pore Wall Modification in a Covalent Organic Framework for Application in Lactic Acid Adsorption. Chemistry of Materials, 2016, 28, 626-631.	3.2	189
63	Oriented Thin Films of a Benzodithiophene Covalent Organic Framework. ACS Nano, 2014, 8, 4042-4052.	7.3	188
64	MOF nanoparticles coated by lipid bilayers and their uptake by cancer cells. Chemical Communications, 2015, 51, 15752-15755.	2.2	186
65	Polyaniline Wires in Oxidant-Containing Mesoporous Channel Hosts. Chemistry of Materials, 1994, 6, 1109-1112.	3.2	184
66	Understanding the Role of Cesium and Rubidium Additives in Perovskite Solar Cells: Trap States, Charge Transport, and Recombination. Advanced Energy Materials, 2018, 8, 1703057.	10.2	184
67	Direct growth of Cu3(BTC)2(H2O)3Â·xH2O thin films on modified QCM-gold electrodes â€“ Water sorption isotherms. Microporous and Mesoporous Materials, 2008, 114, 380-386.	2.2	181
68	Spectrally Switchable Photodetection with Near-Infrared-Absorbing Covalent Organic Frameworks. Journal of the American Chemical Society, 2017, 139, 12035-12042.	6.6	181
69	Talented Mesoporous Silica Nanoparticles. Chemistry of Materials, 2017, 29, 371-388.	3.2	181
70	Recycling Perovskite Solar Cells To Avoid Lead Waste. ACS Applied Materials & Interfaces, 2016, 8, 12881-12886.	4.0	176
71	Associations between ventilator settings during extracorporeal membrane oxygenation for refractory hypoxemia and outcome in patients with acute respiratory distress syndrome: a pooled individual patient data analysis. Intensive Care Medicine, 2016, 42, 1672-1684.	3.9	176
72	Directing the Structure of Metalâ€“Organic Frameworks by Oriented Surface Growth on an Organic Monolayer. Angewandte Chemie - International Edition, 2008, 47, 5777-5779.	7.2	175

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73	Synthesis, Structure and Properties of Related MicroporousN,Nâ€˜-Piperazinebismethylenephosphonates of Aluminum and Titanium. Chemistry of Materials, 2006, 18, 1451-1457.	3.2	173
74	Exploration of nanostructured channel systems with single-molecule probes. Nature Materials, 2007, 6, 303-310.	13.3	171
75	Multifunctional Nanoparticles by Coordinative Self-Assembly of His-Tagged Units with Metalâ€“Organic Frameworks. Journal of the American Chemical Society, 2017, 139, 2359-2368.	6.6	171
76	Solvatochromic covalent organic frameworks. Nature Communications, 2018, 9, 3802.	5.8	171
77	Targeted Drug Delivery in Cancer Cells with Red-Light Photoactivated Mesoporous Silica Nanoparticles. Nano Letters, 2013, 13, 2576-2583.	4.5	169
78	Entrapment of PMMA Polymer Strands in Micro- and Mesoporous Materials. Chemistry of Materials, 1998, 10, 1841-1852.	3.2	168
79	High-Throughput Synthesis of Phosphonate-Based Inorganicâ€“Organic Hybrid Compounds under Hydrothermal Conditions. Angewandte Chemie - International Edition, 2004, 43, 749-752.	7.2	168
80	Click Chemistry for High-Density Biofunctionalization of Mesoporous Silica. Journal of the American Chemical Society, 2008, 130, 12558-12559.	6.6	168
81	A Covalent Organic Framework with 4 nm open pores. Chemical Communications, 2011, 47, 1707.	2.2	168
82	Photoactive and Conducting Covalent Organic Frameworks. Advanced Energy Materials, 2017, 7, 1700387.	10.2	168
83	Impact of Rubidium and Cesium Cations on the Moisture Stability of Multiple-Cation Mixed-Halide Perovskites. ACS Energy Letters, 2017, 2, 2212-2218.	8.8	167
84	Protease-Mediated Release of Chemotherapeutics from Mesoporous Silica Nanoparticles to ex Vivo Human and Mouse Lung Tumors. ACS Nano, 2015, 9, 2377-2389.	7.3	165
85	Encapsulation of Polypyrrole Chains in Zeolite Channels. Angewandte Chemie International Edition in English, 1989, 28, 1692-1694.	4.4	162
86	Microporous Films Prepared by Spin-Coating Stable Colloidal Suspensions of Zeolites. Advanced Materials, 2001, 13, 1880.	11.1	160
87	Tin doping speeds up hole transfer during light-driven water oxidation at hematite photoanodes. Physical Chemistry Chemical Physics, 2014, 16, 24610-24620.	1.3	159
88	Microtubular Selfâ€Assembly of Covalent Organic Frameworks. Angewandte Chemie - International Edition, 2018, 57, 846-850.	7.2	158
89	Growth of oriented molecular sieve crystals on organophosphonate films. Nature, 1994, 368, 834-836.	13.7	157
90	Nanosized zeolite films for vapor-sensing applications. Microporous and Mesoporous Materials, 2001, 50, 159-166.	2.2	157

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91	Role of Endosomal Escape for Disulfide-Based Drug Delivery from Colloidal Mesoporous Silica Evaluated by Live-Cell Imaging. Nano Letters, 2010, 10, 3684-3691.	4.5	155
92	Nanoscale Porous Framework of Lithium Titanate for Ultrafast Lithium Insertion. Angewandte Chemie - International Edition, 2012, 51, 7459-7463.	7.2	155
93	Three-dimensionally confined diluted magnetic semiconductor clusters: Zn1â^'xMnxS. Solid State Communications, 1991, 77, 33-38.	0.9	151
94	Colchicine-Loaded Lipid Bilayer-Coated 50 nm Mesoporous Nanoparticles Efficiently Induce Microtubule Depolymerization upon Cell Uptake. Nano Letters, 2010, 10, 2484-2492.	4.5	151
95	From Highly Crystalline to Outer Surface-Functionalized Covalent Organic Frameworksâ€"A Modulation Approach. Journal of the American Chemical Society, 2016, 138, 1234-1239.	6.6	147
96	Vertical Aluminophosphate Molecular Sieve Crystals Grown at Inorganic-Organic Interfaces. Science, 1994, 265, 1839-1841.	6.0	145
97	One-dimensional metalâ€"organic framework photonic crystals used as platforms for vapor sorption. Journal of Materials Chemistry, 2012, 22, 10356.	6.7	144
98	On-Surface Synthesis of Highly Oriented Thin Metalâ€"Organic Framework Films through Vapor-Assisted Conversion. Journal of the American Chemical Society, 2018, 140, 4812-4819.	6.6	144
99	Preparation of nanosized micro/mesoporous composites via simultaneous synthesis of Beta/MCM-48 phases. Microporous and Mesoporous Materials, 2003, 64, 165-174.	2.2	143
100	Niobium-Doped Titania Nanoparticles: Synthesis and Assembly into Mesoporous Films and Electrical Conductivity. ACS Nano, 2010, 4, 5373-5381.	7.3	138
101	Molecular sieve sensors for selective detection at the nanogram level. Journal of the American Chemical Society, 1989, 111, 7640-7641.	6.6	137
102	Humidity Sensing with Ultrathin LTA-Type Molecular Sieve Films Grown on Piezoelectric Devices. Chemistry of Materials, 2001, 13, 901-905.	3.2	137
103	Validating Metalâ€Organic Framework Nanoparticles for Their Nanosafety in Diverse Biomedical Applications. Advanced Healthcare Materials, 2017, 6, 1600818.	3.9	137
104	Multifunctional polymer-capped mesoporous silica nanoparticles for pH-responsive targeted drug delivery. Nanoscale, 2015, 7, 7953-7964.	2.8	134
105	Oriented Nanoscale Films of Metalâ€"Organic Frameworks By Roomâ€Temperature Gelâ€Layer Synthesis. Angewandte Chemie - International Edition, 2010, 49, 7225-7228.	7.2	132
106	Thin Films of (3-Aminopropyl)triethoxysilane on Aluminum Oxide and Gold Substrates. Langmuir, 1995, 11, 3061-3067.	1.6	131
107	Nanosized AlPO4-5 Molecular Sieves and Ultrathin Films Prepared by Microwave Synthesis. Chemistry of Materials, 1998, 10, 4030-4036.	3.2	131
108	Tuning the Structure and Orientation of Hexagonally Ordered Mesoporous Channels in Anodic Alumina Membrane Hosts: A 2D Small-Angle X-ray Scattering Study. Angewandte Chemie - International Edition, 2006, 45, 1134-1138.	7.2	131

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109	Synthesis and Characterization of a New Three-Dimensional Lanthanide Carboxyphosphonate:â€‰ Ln4(H2O)7[O2Câ^'C5H10Nâ^'CH2-PO3]4(H2O)5. Inorganic Chemistry, 2004, 43, 3159-3163.	1.9	130
110	Switching on and off Interlayer Correlations and Porosity in 2D Covalent Organic Frameworks. Journal of the American Chemical Society, 2019, 141, 12570-12581.	6.6	130
111	Synthesis of Ordered Mesoporous Methacrylate Hybrid Systems:â€‰ Hosts for Molecular Polymer Composites. Chemistry of Materials, 1999, 11, 665-673.	3.2	127
112	Nanosized SAPO-34 Synthesized from Colloidal Solutions. Chemistry of Materials, 2008, 20, 2956-2963.	3.2	127
113	Molecular recognition on acoustic wave devices: sorption in chemically anchored zeolite monolayers. The Journal of Physical Chemistry, 1992, 96, 9387-9393.	2.9	126
114	Highly Selective Epoxidation Catalysts Derived from Intrazeolite Trimethyltriazacyclononane-Manganese Complexes. Angewandte Chemie International Edition in English, 1996, 35, 2211-2213.	4.4	124
115	Enforcing Extended Porphyrin J-Aggregate Stacking in Covalent Organic Frameworks. Journal of the American Chemical Society, 2018, 140, 16544-16552.	6.6	123
116	Oligothiophene-Bridged Conjugated Covalent Organic Frameworks. Journal of the American Chemical Society, 2017, 139, 8194-8199.	6.6	121
117	Mechanism of the Transformation of Silica Precursor Solutions into Si-MFI Zeolite. Angewandte Chemie - International Edition, 2002, 41, 2558-2561.	7.2	120
118	Ultrasmall Titania Nanocrystals and Their Direct Assembly into Mesoporous Structures Showing Fast Lithium Insertion. Journal of the American Chemical Society, 2010, 132, 12605-12611.	6.6	119
119	Medical nanoparticles for next generation drug delivery to the lungs. European Respiratory Journal, 2014, 44, 765-774.	3.1	118
120	Colloidal suspensions of mercapto-functionalized nanosized mesoporous silica. Journal of Materials Chemistry, 2007, 17, 624-631.	6.7	117
121	Directional Charge-Carrier Transport in Oriented Benzodithiophene Covalent Organic Framework Thin Films. ACS Nano, 2017, 11, 2706-2713.	7.3	117
122	Microwave synthesis of molecular sieve MCM-41. Chemical Communications, 1996, , 925.	2.2	111
123	Optical Sensing in Nanopores. Encapsulation of the Solvatochromic Dye Nile Red in Zeolites. Journal of the American Chemical Society, 1999, 121, 448-449.	6.6	111
124	Highly selective epoxidation of alkenes and styrenes with H2O2 and manganese complexes of the cyclic triamine 1,4,7-trimethyl-1,4,7-triazacyclononane. Chemical Communications, 1996, , 917.	2.2	107
125	Self-assembled monolayers of dithiols, diisocyanides, and isocyanothiols on gold: â€˜chemically stickyâ€™ surfaces for covalent attachment of metal clusters and studies of interfacial electron transfer. Inorganica Chimica Acta, 1996, 242, 115-124.	1.2	107
126	Adsorption of Diisocyanides on Gold. Langmuir, 2000, 16, 6183-6187.	1.6	107

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127	Stabilization of cadmium selenide molecular clusters in zeolite Y: EXAFS and x-ray diffraction studies. Journal of the American Chemical Society, 1989, 111, 2564-2571.	6.6	106
128	Highly sensitive and selective fluoride detection in water through fluorophore release from a metal-organic framework. Scientific Reports, 2013, 3, 2562.	1.6	106
129	Synthesis and characterization of group III-V semiconductor clusters: gallium phosphide GaP in zeolite Y. Journal of the American Chemical Society, 1989, 111, 8006-8007.	6.6	105
130	Characterization of selenium-loaded molecular sieves A, X, Y, AlPO-5, and mordenite. Inorganic Chemistry, 1988, 27, 221-228.	1.9	104
131	Poly(acrylonitrile) chains in zeolite channels: polymerization and pyrolysis. Chemistry of Materials, 1992, 4, 819-824.	3.2	104
132	Mesoporous Structures Confined in Anodic Alumina Membranes. Advanced Materials, 2011, 23, 2395-2412.	11.1	104
133	Synthesis of Perfectly Oriented and Micrometer-Sized MAPbBr₃ Perovskite Crystals for Thin-Film Photovoltaic Applications. ACS Energy Letters, 2016, 1, 150-154.	8.8	103
134	Roadmap on organicâ€“inorganic hybrid perovskite semiconductors and devices. APL Materials, 2021, 9, .	2.2	102
135	Oriented Thin Films of Electroactive Triphenylene Catecholate-Based Two-Dimensional Metalâ€“Organic Frameworks. ACS Nano, 2019, 13, 6711-6719.	7.3	101
136	Zeolite Thin Films with Tunable Molecular Sieve Function. Journal of the American Chemical Society, 1995, 117, 9990-9994.	6.6	100
137	Zinc Ferrite Photoanode Nanomorphologies with Favorable Kinetics for Waterâ€Splitting. Advanced Functional Materials, 2016, 26, 4435-4443.	7.8	99
138	Highly selective olefin epoxidation with manganese triazacyclononane complexes: Impact of ligand substitution. Journal of Organometallic Chemistry, 1996, 520, 195-200.	0.8	97
139	Tailoring the Morphology of Mesoporous Titania Thin Films through Biotemplating with Nanocrystalline Cellulose. Journal of the American Chemical Society, 2014, 136, 5930-5937.	6.6	97
140	Highly efficient siRNA delivery from coreâ€“shell mesoporous silica nanoparticles with multifunctional polymer caps. Nanoscale, 2016, 8, 4007-4019.	2.8	97
141	Hierarchical Zeolite Beta via Nanoparticle Assembly with a Cationic Polymer. Chemistry of Materials, 2011, 23, 4301-4310.	3.2	96
142	A Closer Look into Two-Step Perovskite Conversion with X-ray Scattering. Journal of Physical Chemistry Letters, 2015, 6, 1265-1269.	2.1	96
143	Influence of the orientation of methylammonium lead iodide perovskite crystals on solar cell performance. APL Materials, 2014, 2, .	2.2	95
144	Degradable Drug Carriers: Vanishing Mesoporous Silica Nanoparticles. Chemistry of Materials, 2019, 31, 4364-4378.	3.2	95

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145	Efficient OER Catalyst with Low Ir Volume Density Obtained by Homogeneous Deposition of Iridium Oxide Nanoparticles on Macroporous Antimonyâ€Doped Tin Oxide Support. Advanced Functional Materials, 2020, 30, 1906670.	7.8	95
146	Fast-Switching Visâ€“IR Electrochromic Covalent Organic Frameworks. Journal of the American Chemical Society, 2021, 143, 7351-7357.	6.6	95
147	Mesoporous Silica Nanoparticles as pH-Responsive Carrier for the Immune-Activating Drug Resiquimod Enhance the Local Immune Response in Mice. ACS Nano, 2021, 15, 4450-4466.	7.3	94
148	Immune response to functionalized mesoporous silica nanoparticles for targeted drug delivery. Nanoscale, 2016, 8, 938-948.	2.8	93
149	High-throughput investigation of metal carboxyarylphosphonate hybrid compounds. Journal of Materials Chemistry, 2005, 15, 1384.	6.7	92
150	Efficient Assays for Combinatorial Methods for the Discovery of Catalysts. Angewandte Chemie - International Edition, 1999, 38, 323-326.	7.2	91
151	â€œBrick and Mortarâ€•Strategy for the Formation of Highly Crystalline Mesoporous Titania Films from Nanocrystalline Building Blocks. Chemistry of Materials, 2009, 21, 1260-1265.	3.2	90
152	Formation of Interpenetrating Hierarchical Titania Structures by Confined Synthesis in Inverse Opal. Journal of the American Chemical Society, 2011, 133, 17274-17282.	6.6	90
153	Intrazeolite metal carbonyl topotaxy. A comprehensive structural and spectroscopic study of intrazeolite Group VI metal hexacarbonyls and subcarbonyls. Journal of the American Chemical Society, 1990, 112, 9575-9586.	6.6	89
154	Environmental syntheses of nanosized zeolites with high yield and monomodal particle size distribution. Microporous and Mesoporous Materials, 2006, 96, 405-412.	2.2	89
155	Excited-State Dynamics in Fully Conjugated 2D Covalent Organic Frameworks. Journal of the American Chemical Society, 2019, 141, 11565-11571.	6.6	89
156	Diffusion of Oriented Single Molecules with Switchable Mobility in Networks of Long Unidimensional Nanochannels. Journal of the American Chemical Society, 2008, 130, 1638-1648.	6.6	87
157	Zeolite Beta nanosized assemblies. Microporous and Mesoporous Materials, 2005, 80, 227-235.	2.2	85
158	Tuning drug uptake and release rates through different morphologies and pore diameters of confined mesoporous silica. Microporous and Mesoporous Materials, 2009, 118, 435-442.	2.2	84
159	Cobalt-Catalyzed Electrophilic Aminations with Anthranils: An Expedient Route to Condensed Quinolines. Journal of the American Chemical Society, 2019, 141, 98-103.	6.6	84
160	Vapor-Sensitive Bragg Mirrors and Optical Isotherms from Mesoporous Nanoparticle Suspensions. ACS Nano, 2009, 3, 1669-1676.	7.3	83
161	Tin Oxide Based Nanomaterials and Their Application as Anodes in Lithiumâ€ion Batteries and Beyond. ChemSusChem, 2019, 12, 4140-4159.	3.6	82
162	Bimodal Mesoporous Carbon Nanofibers with High Porosity: Freestanding and Embedded in Membranes for Lithiumâ€“Sulfur Batteries. Chemistry of Materials, 2014, 26, 3879-3886.	3.2	80

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163	Pumpless Extracorporeal Lung Assist (Pecla) in Patients With Acute Respiratory Distress Syndrome and Severe Brain Injury. Journal of Trauma, 2005, 58, 1294-1297.	2.3	79
164	Influence of Fermi Level Alignment with Tin Oxide on the Hysteresis of Perovskite Solar Cells. ACS Applied Materials & Interfaces, 2018, 10, 11414-11419.	4.0	79
165	Perovskite cells charge forward. Nature Materials, 2015, 14, 559-561.	13.3	78
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