Osamu Terasaki

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#	Paper	IF	Citations
356	Ordered nanoporous arrays of carbon supporting high dispersions of platinum nanoparticles. Nature, 2001 , 412, 169-72	50.4	2251
355	Synthesis of New, Nanoporous Carbon with Hexagonally Ordered Mesostructure. <i>Journal of the American Chemical Society</i> , 2000 , 122, 10712-10713	16.4	2131
354	Stable single-unit-cell nanosheets of zeolite MFI as active and long-lived catalysts. <i>Nature</i> , 2009 , 461, 246-9	50.4	1634
353	Novel Mesoporous Materials with a Uniform Distribution of Organic Groups and Inorganic Oxide in Their Frameworks. <i>Journal of the American Chemical Society</i> , 1999 , 121, 9611-9614	16.4	1501
352	Large-pore apertures in a series of metal-organic frameworks. <i>Science</i> , 2012 , 336, 1018-23	33.3	1425
351	An ordered mesoporous organosilica hybrid material with a crystal-like wall structure. <i>Nature</i> , 2002 , 416, 304-7	50.4	1186
350	Microstructural optimization of a zeolite membrane for organic vapor separation. <i>Science</i> , 2003 , 300, 456-60	33.3	863
349	Direct imaging of the pores and cages of three-dimensional mesoporous materials. <i>Nature</i> , 2000 , 408, 449-53	50.4	754
348	Synthesis and characterization of chiral mesoporous silica. <i>Nature</i> , 2004 , 429, 281-4	50.4	682
347	Synthesis of self-pillared zeolite nanosheets by repetitive branching. <i>Science</i> , 2012 , 336, 1684-7	33.3	559
346	A novel anionic surfactant templating route for synthesizing mesoporous silica with unique structure. <i>Nature Materials</i> , 2003 , 2, 801-5	27	505
345	Structure of the microporous titanosilicate ETS-10. <i>Nature</i> , 1994 , 367, 347-351	50.4	470
344	New Porous Crystals of Extended Metal-Catecholates. <i>Chemistry of Materials</i> , 2012 , 24, 3511-3513	9.6	423
343	Ultra-stable nanoparticles of CdSe revealed from mass spectrometry. <i>Nature Materials</i> , 2004 , 3, 99-102	27	419
342	Pillared MFI zeolite nanosheets of a single-unit-cell thickness. <i>Journal of the American Chemical Society</i> , 2010 , 132, 4169-77	16.4	404
341	Periodic arrangement of silica nanospheres assisted by amino acids. <i>Journal of the American Chemical Society</i> , 2006 , 128, 13664-5	16.4	358
340	Ordered mesoporous silica with large cage-like pores: structural identification and pore connectivity design by controlling the synthesis temperature and time. <i>Journal of the American Chemical Society</i> , 2003 , 125, 821-9	16.4	349

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339	Shape- and size-controlled synthesis in hard templates: sophisticated chemical reduction for mesoporous monocrystalline platinum nanoparticles. <i>Journal of the American Chemical Society</i> , 2011 , 133, 14526-9	16.4	336
338	Cubic Hybrid OrganicIhorganic Mesoporous Crystal with a Decaoctahedral Shape. <i>Journal of the American Chemical Society</i> , 2000 , 122, 5660-5661	16.4	335
337	Ordered mesoporous Pd/silica-carbon as a highly active heterogeneous catalyst for coupling reaction of chlorobenzene in aqueous media. <i>Journal of the American Chemical Society</i> , 2009 , 131, 4541-	-56.4	319
336	Tailoring the Pore Structure of SBA-16 Silica Molecular Sieve through the Use of Copolymer Blends and Control of Synthesis Temperature and Time. <i>Journal of Physical Chemistry B</i> , 2004 , 108, 11480-1148	ુ∂∙4	318
335	Determination of Pore Size and Pore Wall Structure of MCM-41 by Using Nitrogen Adsorption, Transmission Electron Microscopy, and X-ray Diffraction. <i>Journal of Physical Chemistry B</i> , 2000 , 104, 292	- 30 1	310
334	Weaving of organic threads into a crystalline covalent organic framework. <i>Science</i> , 2016 , 351, 365-9	33.3	307
333	Ordered Mesoporous Bioactive Glasses for Bone Tissue Regeneration. <i>Chemistry of Materials</i> , 2006 , 18, 3137-3144	9.6	293
332	Structural Study of Mesoporous MCM-48 and Carbon Networks Synthesized in the Spaces of MCM-48 by Electron Crystallography. <i>Journal of Physical Chemistry B</i> , 2002 , 106, 1256-1266	3.4	292
331	Facile synthesis and characterization of novel mesoporous and mesorelief oxides with gyroidal structures. <i>Journal of the American Chemical Society</i> , 2004 , 126, 865-75	16.4	283
330	Cobalt phosphate-modified barium-doped tantalum nitride nanorod photoanode with 1.5% solar energy conversion efficiency. <i>Nature Communications</i> , 2013 , 4, 2566	17.4	279
329	Very High Surface Area Microporous Carbon with a Three-Dimensional Nano-Array Structure: Synthesis and Its Molecular Structure. <i>Chemistry of Materials</i> , 2001 , 13, 4413-4415	9.6	274
328	Ordered mesoporous porphyrinic carbons with very high electrocatalytic activity for the oxygen reduction reaction. <i>Scientific Reports</i> , 2013 , 3, 2715	4.9	263
327	Template synthesis of asymmetrically mesostructured platinum networks. <i>Journal of the American Chemical Society</i> , 2001 , 123, 1246-7	16.4	257
326	Spatially and size selective synthesis of Fe-based nanoparticles on ordered mesoporous supports as highly active and stable catalysts for ammonia decomposition. <i>Journal of the American Chemical Society</i> , 2010 , 132, 14152-62	16.4	229
325	Structural Design of Mesoporous Silica by Micelle-Packing Control Using Blends of Amphiphilic Block Copolymers. <i>Journal of Physical Chemistry B</i> , 2002 , 106, 2552-2558	3.4	199
324	Microporous titanosilicate ETS-10: A structural survey. <i>The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties</i> , 1995 , 71, 813-841		197
323	TEM Studies of Platinum Nanowires Fabricated in Mesoporous Silica MCM-41. <i>Angewandte Chemie - International Edition</i> , 2000 , 39, 3107-3110	16.4	190
322	Methodology for synthesizing crystalline metallosilicates with expanded pore windows through molecular alkoxysilylation of zeolitic lamellar precursors. <i>Journal of the American Chemical Society</i> , 2008, 130, 8178-87	16.4	187

321	Complex zeolite structure solved by combining powder diffraction and electron microscopy. <i>Nature</i> , 2006 , 444, 79-81	50.4	182
320	Direct observation of 3D mesoporous structure by scanning electron microscopy (SEM): SBA-15 silica and CMK-5 carbon. <i>Angewandte Chemie - International Edition</i> , 2003 , 42, 2182-5	16.4	181
319	Extra adsorption and adsorbate superlattice formation in metal-organic frameworks. <i>Nature</i> , 2015 , 527, 503-7	50.4	176
318	Aggregation-free gold nanoparticles in ordered mesoporous carbons: toward highly active and stable heterogeneous catalysts. <i>Journal of the American Chemical Society</i> , 2013 , 135, 11849-60	16.4	176
317	Interaction of aromatic groups in amphiphilic molecules directing for single-crystalline mesostructured zeolite nanosheets. <i>Nature Communications</i> , 2014 , 5, 4262	17.4	168
316	Filling metal-organic framework mesopores with TiO for CO photoreduction. <i>Nature</i> , 2020 , 586, 549-554	1 50.4	165
315	Ordered Mesoporous Microspheres for Bone Grafting and Drug Delivery. <i>Chemistry of Materials</i> , 2009 , 21, 1000-1009	9.6	162
314	Mesotunnels on the silica wall of ordered SBA-15 to generate three-dimensional large-pore mesoporous networks. <i>Journal of the American Chemical Society</i> , 2001 , 123, 12113-4	16.4	160
313	Three-dimensional structure of large-pore mesoporous cubic Ia3d silica with complementary pores and its carbon replica by electron crystallography. <i>Angewandte Chemie - International Edition</i> , 2004 , 43, 5231-4	16.4	156
312	Zeolite-Encaged Single-Atom Rhodium Catalysts: Highly-Efficient Hydrogen Generation and Shape-Selective Tandem Hydrogenation of Nitroarenes. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 18570-18576	16.4	152
311	Electrochemical synthesis of mesoporous gold films toward mesospace-stimulated optical properties. <i>Nature Communications</i> , 2015 , 6, 6608	17.4	151
310	CO2 capture from humid flue gases and humid atmosphere using a microporous coppersilicate. <i>Science</i> , 2015 , 350, 302-6	33.3	151
309	Synthesis of Mesoporous Pt Films with Tunable Pore Sizes from Aqueous Surfactant Solutions. <i>Chemistry of Materials</i> , 2012 , 24, 1591-1598	9.6	148
308	Periodic Mesoporous Organosilica with Large Cagelike Pores. <i>Chemistry of Materials</i> , 2002 , 14, 1903-190	05 .6	147
307	Characterization of mesoporous carbons synthesized with SBA-16 silica template. <i>Journal of Materials Chemistry</i> , 2005 , 15, 1560		146
306	Control of Morphology and Helicity of Chiral Mesoporous Silica. <i>Advanced Materials</i> , 2006 , 18, 593-596	24	142
305	Three-Dimensional Cubic Mesoporous Structures of SBA-12 and Related Materials by Electron Crystallography. <i>Journal of Physical Chemistry B</i> , 2002 , 106, 3118-3123	3.4	141
304	Aerosol-Assisted Synthesis of Magnetic Mesoporous Silica Spheres for Drug Targeting. <i>Chemistry of Materials</i> , 2007 , 19, 3455-3463	9.6	140

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303	Controlling the Morphology of Mesostructured Silicas by Pseudomorphic Transformation: a Route Towards Applications. <i>Advanced Functional Materials</i> , 2006 , 16, 1657-1667	15.6	139
302	Highly active iron oxide supported gold catalysts for CO oxidation: how small must the gold nanoparticles be?. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 5771-5	16.4	136
301	Isolating individual chains of selenium by incorporation into the channels of a zeolite. <i>Nature</i> , 1987 , 330, 58-60	50.4	136
300	Synthesis and Characterization of High-Quality Zeolite LTA and FAU Single Nanocrystals. <i>Chemistry of Materials</i> , 1998 , 10, 1483-1486	9.6	133
299	A Synthetic Route for Crystals of Woven Structures, Uniform Nanocrystals, and Thin Films of Imine Covalent Organic Frameworks. <i>Journal of the American Chemical Society</i> , 2017 , 139, 13166-13172	16.4	131
298	Control of Crystal Morphology of SBA-1 Mesoporous Silica. <i>Chemistry of Materials</i> , 2001 , 13, 2237-2239	9.6	130
297	Growth of Quantum-Confined Indium Phosphide inside MCM-41. <i>Journal of Physical Chemistry B</i> , 1998 , 102, 3345-3353	3.4	129
296	An HREM study of channel structures in mesoporous silica SBA-15 and platinum wires produced in the channels. <i>ChemPhysChem</i> , 2001 , 2, 229-31	3.2	125
295	Delamination of Ti-MWW and High Efficiency in Epoxidation of Alkenes with Various Molecular Sizes. <i>Journal of Physical Chemistry B</i> , 2004 , 108, 19126-19131	3.4	122
294	Mesoscopic constructs of ordered and oriented metal-organic frameworks on plasmonic silver nanocrystals. <i>Journal of the American Chemical Society</i> , 2015 , 137, 2199-202	16.4	120
293	Synthesis of chiral TiOIhanofibre with electron transition-based optical activity. <i>Nature Communications</i> , 2012 , 3, 1215	17.4	120
292	Dodecagonal tiling in mesoporous silica. <i>Nature</i> , 2012 , 487, 349-53	50.4	119
291	Synthesis and characterization of mesoporous silica AMS-10 with bicontinuous cubic Pn3m symmetry. <i>Angewandte Chemie - International Edition</i> , 2006 , 45, 4295-8	16.4	117
290	Characterization of chiral mesoporous materials by transmission electron microscopy. <i>Small</i> , 2005 , 1, 233-7	11	117
289	Formation Mechanism of Anionic Surfactant-Templated Mesoporous Silica. <i>Chemistry of Materials</i> , 2006 , 18, 3904-3914	9.6	116
288	The effect of the counteranion on the formation of mesoporous materials under the acidic synthesis process. <i>Journal of the American Chemical Society</i> , 2002 , 124, 13962-3	16.4	114
287	Self-assembly of designed oligomeric siloxanes with alkyl chains into silica-based hybrid mesostructures. <i>Journal of the American Chemical Society</i> , 2005 , 127, 14108-16	16.4	111
286	High-Performance Mesoporous Bioceramics Mimicking Bone Mineralization. <i>Chemistry of Materials</i> , 2008 , 20, 3191-3198	9.6	108

285	Structural elucidation of microporous and mesoporous catalysts and molecular sieves by high-resolution electron microscopy. <i>Accounts of Chemical Research</i> , 2001 , 34, 583-94	24.3	107
284	Synthesis of large-pore Ia3d mesoporous silica and its tubelike carbon replica. <i>Angewandte Chemie - International Edition</i> , 2003 , 42, 3930-4	16.4	106
283	Polystyrene bead-assisted self-assembly of microstructured silica hollow spheres in highly alkaline media. <i>Journal of the American Chemical Society</i> , 2001 , 123, 7723-4	16.4	103
282	Incorporation of antimicrobial compounds in mesoporous silica film monolith. <i>Biomaterials</i> , 2009 , 30, 5729-36	15.6	101
281	Structural Investigations of AMS-n Mesoporous Materials by Transmission Electron Microscopy. <i>Chemistry of Materials</i> , 2004 , 16, 813-821	9.6	101
2 80	Electron Diffraction Structure Solution of a Nanocrystalline Zeolite at Atomic Resolution. <i>Journal of Physical Chemistry B</i> , 1999 , 103, 8245-8250	3.4	96
279	Structural Solution of Mesocaged Material AMS-8. Chemistry of Materials, 2004, 16, 3597-3605	9.6	93
278	Synthesis of mesocage structures by kinetic control of self-assembly in anionic surfactants. <i>Angewandte Chemie - International Edition</i> , 2005 , 44, 5317-22	16.4	93
277	The first zeolite with three-dimensional intersecting straight-channel system of 12-membered rings. <i>Journal of the American Chemical Society</i> , 2001 , 123, 5370-1	16.4	92
276	Complete shape retention in the transformation of silica to polymer micro-objects. <i>Nature Materials</i> , 2006 , 5, 545-51	27	89
275	Formation of Novel Ordered Mesoporous Silicas with Square Channels and Their Direct Observation by Transmission Electron Microscopy. <i>Angewandte Chemie - International Edition</i> , 2000 , 39, 3855-3859	16.4	89
274	Pore Wall of a Mesoporous Molecular Sieve Derived from Kanemite. <i>Chemistry of Materials</i> , 1996 , 8, 20	189 <u>.</u> 809	15 89
273	Subnanometer Bimetallic Platinum-Zinc Clusters in Zeolites for Propane Dehydrogenation. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 19450-19459	16.4	85
272	In situ growth-etching approach to the preparation of hierarchically macroporous zeolites with high MTO catalytic activity and selectivity. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 17994-18004	13	82
271	Strategies for the synthesis of large zeolite single crystals. <i>Microporous and Mesoporous Materials</i> , 1998 , 21, 245-251	5.3	82
270	The porosity, acidity, and reactivity of dealuminated zeolite ZSM-5 at the single particle level: the influence of the zeolite architecture. <i>Chemistry - A European Journal</i> , 2011 , 17, 13773-81	4.8	81
269	The formation of cubic Pm macro 3n mesostructure by an epitaxial phase transformation from hexagonal p6mm mesophase. <i>Journal of the American Chemical Society</i> , 2001 , 123, 12089-90	16.4	81
268	Enantiomerically enriched, polycrystalline molecular sieves. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 5101-5106	11.5	79

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267	High performance nanosheet-like silicoaluminophosphate molecular sieves: synthesis, 3D EDT structural analysis and MTO catalytic studies. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 17828-17839	13	79
266	Surface Structure of Zeolite (MFI) Crystals. <i>Chemistry of Materials</i> , 2004 , 16, 5226-5232	9.6	79
265	Conjugated Copper-Catecholate Framework Electrodes for Efficient Energy Storage. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 1081-1086	16.4	78
264	A CoDEmbedded porous ZnO rhombic dodecahedron prepared using zeolitic imidazolate frameworks as precursors for CODhotoreduction. <i>Nanoscale</i> , 2016 , 8, 6712-20	7.7	77
263	Three-dimensional low symmetry mesoporous silica structures templated from tetra-headgroup rigid bolaform quaternary ammonium surfactant. <i>Journal of the American Chemical Society</i> , 2005 , 127, 6780-7	16.4	77
262	Ferromagnetic properties of potassium clusters incorporated into zeolite LTA. <i>Physical Review B</i> , 1993 , 48, 12253-12261	3.3	76
261	A Novel Route for Synthesizing Silica Nanotubes with Chiral Mesoporous Wall Structures. <i>Chemistry of Materials</i> , 2007 , 19, 1577-1583	9.6	73
260	Racemic Helical Mesoporous Silica Formation by Achiral Anionic Surfactant. <i>Chemistry of Materials</i> , 2006 , 18, 241-243	9.6	73
259	Novel approaches to synthesize self-supported ultrathin carbon nanowire arrays templated by MCM-41. <i>Chemical Communications</i> , 2003 , 2726-7	5.8	72
258	Zeolite Synthesis Using Hierarchical Structure-Directing Surfactants: Retaining Porous Structure of Initial Synthesis Gel and Precursors. <i>Chemistry of Materials</i> , 2012 , 24, 2733-2738	9.6	70
257	Modern microscopy methods for the structural study of porous materials. <i>Chemical Communications</i> , 2004 , 907-16	5.8	69
256	Fine structures of zeolite-Linde-L (LTL): surface structures, growth unit and defects. <i>Chemistry - A European Journal</i> , 2004 , 10, 5031-40	4.8	69
255	Tailored synthesis of mesoporous platinum replicas using double gyroid mesoporous silica (KIT-6) with different pore diameters via vapor infiltration of a reducing agent. <i>Chemical Communications</i> , 2010 , 46, 6365-7	5.8	68
254	Amino Acid-Assisted Construction of Single-Crystalline Hierarchical Nanozeolites via Oriented-Aggregation and Intraparticle Ripening. <i>Journal of the American Chemical Society</i> , 2019 , 141, 3772-3776	16.4	67
253	Microemulsion-based synthesis of titanium phosphate nanotubes via amine extraction system. Journal of the American Chemical Society, 2004 , 126, 8882-3	16.4	67
252	Growth of Single-Crystal Mesoporous Carbons with Im3 m Symmetry. <i>Chemistry of Materials</i> , 2010 , 22, 4828-4833	9.6	66
251	Synthesis and structural identification of a highly ordered mesoporous organosilica with large cagelike pores. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 764-8	3.4	66
250	Comprehensive characterization of highly ordered MCM-41 silicas using nitrogen adsorption, thermogravimetry, X-ray diffraction and transmission electron microscopy. <i>Microporous and Mesoporous Materials</i> , 2001 , 48, 127-134	5.3	66

249	[Al12P13O52]3-[(CH2)6N4H3]3+: An Anionic Aluminophosphate Molecular Sieve with Brlisted Acidity. <i>Chemistry of Materials</i> , 2000 , 12, 2517-2519	9.6	66	
248	Intergrowths of cubic and hexagonal polytypes of faujasitic zeolites. <i>Journal of the Chemical Society Chemical Communications</i> , 1991 , 1660-1664		66	
247	Structural Characterization of Interlayer Expanded Zeolite Prepared From Ferrierite Lamellar Precursor. <i>Chemistry of Materials</i> , 2009 , 21, 2904-2911	9.6	65	
246	Optical properties of potassium clusters incorporated into zeolite LTA. <i>Physical Review B</i> , 1993 , 48, 122	:4 <u>5;3</u> 122	2525	
245	Isotherms of individual pores by gas adsorption crystallography. <i>Nature Chemistry</i> , 2019 , 11, 562-570	17.6	64	
244	Direct Observation of P ure MEL TypelZeolite. <i>Chemistry of Materials</i> , 1996 , 8, 463-468	9.6	64	
243	Structure elucidation of the highly active titanosilicate catalyst Ti-YNU-1. <i>Angewandte Chemie</i> - <i>International Edition</i> , 2005 , 44, 6719-23	16.4	63	
242	Observation of spatially correlated intergrowths of faujasitic polytypes and the pure end members by high-resolution electron microscopy. <i>Chemistry of Materials</i> , 1993 , 5, 452-458	9.6	63	
241	The First Large-Pore Vanadosilicate Framework Containing Hexacoordinated Vanadium. <i>Angewandte Chemie International Edition in English</i> , 1997 , 36, 100-102		61	
240	Synthesis of carboxylic group functionalized mesoporous silicas (CFMSs) with various structures. Journal of Materials Chemistry, 2007 , 17, 1216		61	
239	Synthesis and Characterization of Silica Nanotubes with Radially Oriented Mesopores. <i>Advanced Functional Materials</i> , 2008 , 18, 541-550	15.6	60	
238	A general protocol for determining the structures of molecularly ordered but noncrystalline silicate frameworks. <i>Journal of the American Chemical Society</i> , 2013 , 135, 5641-55	16.4	58	
237	Unique Microstructure of Mesoporous Pt (HI-Pt) Prepared via Direct Physical Casting in Lyotropic Liquid Crystalline Media. <i>Chemistry of Materials</i> , 2005 , 17, 6342-6348	9.6	57	
236	Growth models in microporous materials. <i>Microporous and Mesoporous Materials</i> , 2001 , 48, 1-9	5.3	57	
235	Template-assisted self-assembly of macrothicro bifunctional porous materials. <i>Journal of Materials Chemistry</i> , 2001 , 11, 1687-1693		57	
234	Cubosome Description of the Inorganic Mesoporous Structure MCM-48. <i>Chemistry of Materials</i> , 1997 , 9, 2066-2070	9.6	56	
233	Preparation and HREM characterization of a protonated form of a layered perovskite tantalate from an Aurivillius phase Bi(2)SrTa(2)O(9) via acid treatment. <i>Inorganic Chemistry</i> , 2001 , 40, 5768-71	5.1	56	
232	Investigation of the Surface Structure of the Zeolites FAU and EMT by High-Resolution Transmission Electron Microscopy. <i>Angewandte Chemie International Edition in English</i> , 1993 , 32, 1210-1	1213	55	

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231	Synthesis Mechanism of Cationic Surfactant Templating Mesoporous Silica under an Acidic Synthesis Process. <i>Chemistry of Materials</i> , 2005 , 17, 4103-4113	9.6	54	
230	Comprehensive Structure Analysis of Ordered Carbon Nanopipe Materials CMK-5 by X-ray Diffraction and Electron Microscopy. <i>Chemistry of Materials</i> , 2004 , 16, 2274-2281	9.6	54	
229	Transition Metal Ion-Chelating Ordered Mesoporous Carbons as Noble Metal-Free Fuel Cell Catalysts. <i>Chemistry of Materials</i> , 2013 , 25, 856-861	9.6	52	
228	Mesoporous silicalite-1 zeolite crystals with unique pore shapes analogous to the morphology. <i>Microporous and Mesoporous Materials</i> , 2007 , 106, 174-179	5.3	52	
227	Active Biocatalysts Based on Pepsin Immobilized in Mesoporous SBA-15. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 18110-18116	3.8	51	
226	Synthesis and Characterization of the Amphoteric Amino Acid Bifunctional Mesoporous Silica. <i>Chemistry of Materials</i> , 2007 , 19, 2860-2867	9.6	51	
225	Argon Adsorption on MCM-41 Mesoporous Crystal Studied by In Situ Synchrotron Powder X-ray Diffraction. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 10803-10813	3.8	50	
224	Electron Microscopic Study of Intergrowth of MFI and MEL: Crystal Faults in B-MELIJournal of Physical Chemistry B, 1997 , 101, 9881-9885	3.4	49	
223	Mesoporous silicas by self-assembly of lipid molecules: ribbon, hollow sphere, and chiral materials. <i>Chemistry - A European Journal</i> , 2008 , 14, 6413-20	4.8	49	
222	A layered tungstic acid H2W2O7 x nH2O with a double-octahedral sheet structure: conversion process from an aurivillius phase Bi2W2O9 and structural characterization. <i>Inorganic Chemistry</i> , 2003 , 42, 4479-84	5.1	49	
221	Formation and Encapsulation of All-Inorganic Lead Halide Perovskites at Room Temperature in Metal-Organic Frameworks. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 2270-2277	6.4	48	
220	Evolution of packing parameters in the structural changes of silica mesoporous crystals: cage-type, 2D cylindrical, bicontinuous diamond and gyroid, and lamellar. <i>Journal of the American Chemical Society</i> , 2011 , 133, 11524-33	16.4	47	
219	Particle-size control and surface structure of the cubic mesocaged material AMS-8. <i>Angewandte Chemie - International Edition</i> , 2006 , 45, 2434-8	16.4	46	
218	Three-dimensional real-space crystallography of MCM-48 mesoporous silica revealed by scanning transmission electron tomography. <i>Chemical Physics Letters</i> , 2006 , 418, 540-543	2.5	46	
217	Atomic resolution three-dimensional electron diffraction microscopy. <i>Physical Review Letters</i> , 2002 , 89, 155502	7.4	46	
216	Surface Structure of Zeolite L Studied by High-Resolution Electron Microscopy. <i>Chemistry of Materials</i> , 1998 , 10, 688-691	9.6	43	
215	A Hierarchical MFI Zeolite with a Two-Dimensional Square Mesostructure. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 724-728	16.4	43	
214	Recent progress in scanning electron microscopy for the characterization of fine structural details of nano materials. <i>Progress in Solid State Chemistry</i> , 2014 , 42, 1-21	8	42	

213	Highly Active Heterogeneous 3 nm Gold Nanoparticles on Mesoporous Carbon as Catalysts for Low-Temperature Selective Oxidation and Reduction in Water. <i>ACS Catalysis</i> , 2015 , 5, 797-802	13.1	42
212	Steric and Temperature Control of Enantiopurity of Chiral Mesoporous Silica. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 1871-1877	3.8	42
211	Porous Mesostructured Zirconium Oxophosphate with Cubic (Ia3 d) Symmetry. <i>Chemistry of Materials</i> , 2002 , 14, 4134-4144	9.6	42
210	Role of high-resolution electron microscopy in the identification and characterization of new crystalline, microporous materials: "reading off" the structure and symmetry elements of pentasil molecular sieves. <i>Chemistry of Materials</i> , 1989 , 1, 158-162	9.6	42
209	Formation of two- and three-dimensional hybrid mesostructures from branched siloxane molecules. <i>Journal of the American Chemical Society</i> , 2009 , 131, 9634-5	16.4	41
208	Surface structure and crystal growth of zeolite Beta C. <i>Angewandte Chemie - International Edition</i> , 2002 , 41, 1235-7	16.4	41
207	Mechanistic Analysis-Guided Pd-Based Catalysts for Efficient Hydrogen Production from Formic Acid Dehydrogenation. <i>ACS Catalysis</i> , 2020 , 10, 3921-3932	13.1	40
206	An amphoteric mesoporous silica catalyzed aldol reaction. <i>Catalysis Communications</i> , 2009 , 10, 1386-138	8 9 .2	40
205	Formation of Chiral Mesopores in Conducting Polymers by Chiral-Lipid-Ribbon Templating and Beeding[Route. <i>Advanced Functional Materials</i> , 2008 , 18, 2699-2707	15.6	40
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