Osamu Terasaki

List of Publications by Year in Descending Order

356 papers	33,967 citations	84 h-index	179 g-index
383 ext. papers	36,405 ext. citations	9.2 avg, IF	6.83 L-index

#	Paper	IF	Citations
356	Superassembly of Surface-Enriched Ru Nanoclusters from Trapping-Bonding Strategy for Efficient Hydrogen Evolution.. *ACS Nano*, **2022**,	16.7	4
355	Electron Microscopy of Nanoporous Crystals. *Accounts of Materials Research*, **2022**, 3, 110-121	7.5	3
354	Unveiling unique structural features of the YNU-5 aluminosilicate family. *Microporous and Mesoporous Materials*, **2021**, 317, 110980	5.3	1
353	Tricycloquinazoline-Based 2D Conductive Metal-Organic Frameworks as Promising Electrocatalysts for CO Reduction. *Angewandte Chemie - International Edition*, **2021**, 60, 14473-14479	16.4	38
352	Tricycloquinazoline-Based 2D Conductive Metal□Organic Frameworks as Promising Electrocatalysts for CO2 Reduction. *Angewandte Chemie*, **2021**, 133, 14594-14600	3.6	8
351	Physicochemical Understanding of the Impact of Pore Environment and Species of Adsorbates on Adsorption Behaviour. *Angewandte Chemie*, **2021**, 133, 20667-20673	3.6	0
350	White fluorescence of polyaromatics derived from methanol conversion in Ca2+-exchanged small-pore zeolites. *Materials Chemistry Frontiers*, **2021**, 5, 4634-4644	7.8	1
349	Unravelling high volumetric capacity of Co3O4 nanograin-interconnected secondary particles for lithium-ion battery anodes. *Journal of Materials Chemistry A*, **2021**, 9, 6242-6251	13	8
348	Andersson-Magn□ Phases TinO2n-1: Recent Progress Inspired by Swedish Scientists. *Zeitschrift Fur Anorganische Und Allgemeine Chemie*, **2021**, 647, 126-133	1.3	1
347	Physicochemical Understanding of the Impact of Pore Environment and Species of Adsorbates on Adsorption Behaviour. *Angewandte Chemie - International Edition*, **2021**, 60, 20504-20510	16.4	2
346	Direct Atomic-Level Imaging of Zeolites: Oxygen, Sodium in Na-LTA and Iron in Fe-MFI. *Angewandte Chemie - International Edition*, **2020**, 59, 19510-19517	16.4	10
345	Structure Solution and Defect Analysis of an Extra-Large Pore Zeolite with Topology by Electron Microscopy. *Journal of Physical Chemistry Letters*, **2020**, 11, 3350-3356	6.4	4
344	Subnanometer Bimetallic Platinum-Zinc Clusters in Zeolites for Propane Dehydrogenation. *Angewandte Chemie - International Edition*, **2020**, 59, 19450-19459	16.4	85
343	Influence of Cation Substitution on the Complex Structure and Luminescent Properties of the ZnkIn2Ok+3 System. *Chemistry of Materials*, **2020**, 32, 6176-6185	9.6	2
342	Direct Atomic-Level Imaging of Zeolites: Oxygen, Sodium in Na-LTA and Iron in Fe-MFI. *Angewandte Chemie*, **2020**, 132, 19678-19685	3.6	0
341	Electron Microscopy Studies of Local Structural Modulations in Zeolite Crystals. *Angewandte Chemie - International Edition*, **2020**, 59, 19403-19413	16.4	9
340	A Green Selective Water-Etching Approach to MOF@Mesoporous SiO2 Yolk-Shell Nanoreactors with Enhanced Catalytic Stabilities. *Matter*, **2020**, 3, 498-508	12.7	28

339	Electron Microscopy Studies of Local Structural Modulations in Zeolite Crystals. *Angewandte Chemie*, **2020**, 132, 19571-19581	3.6	
338	Mechanistic Analysis-Guided Pd-Based Catalysts for Efficient Hydrogen Production from Formic Acid Dehydrogenation. *ACS Catalysis*, **2020**, 10, 3921-3932	13.1	40
337	Subnanometer Bimetallic Platinum□Zinc Clusters in Zeolites for Propane Dehydrogenation. *Angewandte Chemie*, **2020**, 132, 19618-19627	3.6	24
336	Local Structure Evolvement in MOF Single Crystals Unveiled by Scanning Transmission Electron Microscopy. *Chemistry of Materials*, **2020**, 32, 4966-4972	9.6	16
335	Crystal twinning of bicontinuous cubic structures. *IUCrJ*, **2020**, 7, 228-237	4.7	7
334	Conjugated Copper-Catecholate Framework Electrodes for Efficient Energy Storage. *Angewandte Chemie - International Edition*, **2020**, 59, 1081-1086	16.4	78
333	Conjugated Copper□Catecholate Framework Electrodes for Efficient Energy Storage. *Angewandte Chemie*, **2020**, 132, 1097-1102	3.6	13
332	Breaking the Si/Al Limit of Nanosized □Zeolites: Promoting Catalytic Production of Lactide. *Chemistry of Materials*, **2020**, 32, 751-758	9.6	15
331	Investigation of the Image Contrast in an Ultra-Low Voltage Scanning Electron Microscope Using an Auger Electron Spectrometer. *Microscopy and Microanalysis*, **2020**, 26, 758-767	0.5	1
330	Filling metal-organic framework mesopores with TiO for CO photoreduction. *Nature*, **2020**, 586, 549-554	50.4	165
329	Titelbild: Direct Atomic-Level Imaging of Zeolites: Oxygen, Sodium in Na-LTA and Iron in Fe-MFI (Angew. Chem. 44/2020). *Angewandte Chemie*, **2020**, 132, 19529-19529	3.6	
328	Understanding Adsorption Behavior of Periodic Mesoporous Organosilica Having a Heterogeneous Chemical Environment: Selective Coverage and Interpenetration of Adsorbates inside the Channel Wall. *Journal of Physical Chemistry C*, **2019**, 123, 24884-24889	3.8	2
327	Isotherms of individual pores by gas adsorption crystallography. *Nature Chemistry*, **2019**, 11, 562-570	17.6	64
326	Formation and Encapsulation of All-Inorganic Lead Halide Perovskites at Room Temperature in Metal-Organic Frameworks. *Journal of Physical Chemistry Letters*, **2019**, 10, 2270-2277	6.4	48
325	Removal of 90Sr from highly Na+-rich liquid nuclear waste with a layered vanadosilicate. *Energy and Environmental Science*, **2019**, 12, 1857-1865	35.4	16
324	Amino Acid-Assisted Construction of Single-Crystalline Hierarchical Nanozeolites via Oriented-Aggregation and Intraparticle Ripening. *Journal of the American Chemical Society*, **2019**, 141, 3772-3776	16.4	67
323	Ultra Low Voltage Reflected Electron Energy Loss Spectroscopy. *Microscopy and Microanalysis*, **2019**, 25, 442-443	0.5	
322	Zeolite-Encaged Single-Atom Rhodium Catalysts: Highly-Efficient Hydrogen Generation and Shape-Selective Tandem Hydrogenation of Nitroarenes. *Angewandte Chemie*, **2019**, 131, 18743-18749	3.6	15

321	Zeolite-Encaged Single-Atom Rhodium Catalysts: Highly-Efficient Hydrogen Generation and Shape-Selective Tandem Hydrogenation of Nitroarenes. *Angewandte Chemie - International Edition*, **2019**, 58, 18570-18576	16.4	152
320	Microscopy of Nanoporous Crystals. *Springer Handbooks*, **2019**, 1391-1450	1.3	4
319	A Hierarchical MFI Zeolite with a Two-Dimensional Square Mesostructure. *Angewandte Chemie - International Edition*, **2018**, 57, 724-728	16.4	43
318	A Hierarchical MFI Zeolite with a Two-Dimensional Square Mesostructure. *Angewandte Chemie*, **2018**, 130, 732-736	3.6	24
317	Some Efforts Toward Understanding Structural Features of MOF/COF. *Israel Journal of Chemistry*, **2018**, 58, 1157-1163	3.4	7
316	Structure Characterization of Mesoporous Materials by Electron Microscopy. *The Enzymes*, **2018**, 43, 11-30	2.3	5
315	Electron crystallography for determining the handedness of a chiral zeolite nanocrystal. *Nature Materials*, **2017**, 16, 755-759	27	28
314	Enantiomerically enriched, polycrystalline molecular sieves. *Proceedings of the National Academy of Sciences of the United States of America*, **2017**, 114, 5101-5106	11.5	79
313	A Synthetic Route for Crystals of Woven Structures, Uniform Nanocrystals, and Thin Films of Imine Covalent Organic Frameworks. *Journal of the American Chemical Society*, **2017**, 139, 13166-13172	16.4	131
312	Directing the Distribution of Potassium Cations in Zeolite-LTL through Crown Ether Addition. *Crystal Growth and Design*, **2017**, 17, 4516-4521	3.5	4
311	Surface-Casting Synthesis of Mesoporous Zirconia with a CMK-5-Like Structure and High Surface Area. *Angewandte Chemie - International Edition*, **2017**, 56, 11222-11225	16.4	33
310	Surface-Casting Synthesis of Mesoporous Zirconia with a CMK-5-Like Structure and High Surface Area. *Angewandte Chemie*, **2017**, 129, 11374-11377	3.6	8
309	First woven covalent organic framework solved using electron crystallography **2016**, 637-638		1
308	Size-control growth of thermally stable Au nanoparticles encapsulated within ordered mesoporous carbon framework. *Chinese Journal of Catalysis*, **2016**, 37, 61-72	11.3	6
307	A design concept of amphiphilic molecules for directing hierarchical porous zeolite. *New Journal of Chemistry*, **2016**, 40, 3982-3992	3.6	14
306	Weaving of organic threads into a crystalline covalent organic framework. *Science*, **2016**, 351, 365-9	33.3	307
305	A Co□□-embedded porous ZnO rhombic dodecahedron prepared using zeolitic imidazolate frameworks as precursors for CO□ photoreduction. *Nanoscale*, **2016**, 8, 6712-20	7.7	77
304	Interconversion of Triply Periodic Constant Mean Curvature Surface Structures: From Double Diamond to Single Gyroid. *Chemistry of Materials*, **2016**, 28, 3691-3702	9.6	35

303	Electrochemical synthesis of mesoporous gold films toward mesospace-stimulated optical properties. *Nature Communications*, **2015**, 6, 6608	17.4	151
302	CO2 capture from humid flue gases and humid atmosphere using a microporous coppersilicate. *Science*, **2015**, 350, 302-6	33.3	151
301	Extra adsorption and adsorbate superlattice formation in metal-organic frameworks. *Nature*, **2015**, 527, 503-7	50.4	176
300	Direct Observation of Nano-porous Materials Using Low Voltage High Resolution SEM. *Microscopy and Microanalysis*, **2015**, 21, 27-28	0.5	1
299	Highly Active Heterogeneous 3 nm Gold Nanoparticles on Mesoporous Carbon as Catalysts for Low-Temperature Selective Oxidation and Reduction in Water. *ACS Catalysis*, **2015**, 5, 797-802	13.1	42
298	Mesoscopic constructs of ordered and oriented metal-organic frameworks on plasmonic silver nanocrystals. *Journal of the American Chemical Society*, **2015**, 137, 2199-202	16.4	120
297	Recent progress in scanning electron microscopy for the characterization of fine structural details of nano materials. *Progress in Solid State Chemistry*, **2014**, 42, 1-21	8	42
296	Structures of Silica-Based Nanoporous Materials Revealed by Microscopy. *Zeitschrift Fur Anorganische Und Allgemeine Chemie*, **2014**, 640, 521-536	1.3	12
295	Preface to Special Topic: Mesoporous Materials. *APL Materials*, **2014**, 2, 113001	5.7	1
294	High performance nanosheet-like silicoaluminophosphate molecular sieves: synthesis, 3D EDT structural analysis and MTO catalytic studies. *Journal of Materials Chemistry A*, **2014**, 2, 17828-17839	13	79
293	In situ growth-etching approach to the preparation of hierarchically macroporous zeolites with high MTO catalytic activity and selectivity. *Journal of Materials Chemistry A*, **2014**, 2, 17994-18004	13	82
292	Interaction of aromatic groups in amphiphilic molecules directing for single-crystalline mesostructured zeolite nanosheets. *Nature Communications*, **2014**, 5, 4262	17.4	168
291	Phase identification and structure solution by three-dimensional electron diffraction tomography: Gd-phosphate nanorods. *Inorganic Chemistry*, **2014**, 53, 5067-72	5.1	15
290	Atomic Force Microscopy and High Resolution Scanning Electron Microscopy Investigation of Zeolite A Crystal Growth. Part 2: In Presence of Organic Additives. *Journal of Physical Chemistry C*, **2014**, 118, 23092-23099	3.8	6
289	Electron Crystallography **2014**, 201-258		2
288	Direct observation and analysis of yolk-shell materials using low-voltage high-resolution scanning electron microscopy: Nanometal-particles encapsulated in metal-oxide, carbon, and polymer. *APL Materials*, **2014**, 2, 113317	5.7	8
287	Structure Analysis of a Hyper-Complex Approximant to Icosahedral Quasicrystal using 3D Electron Diffraction Tomography. *Microscopy and Microanalysis*, **2014**, 20, 596-597	0.5	
286	Controlling morphology, mesoporosity, crystallinity, and photocatalytic activity of ordered mesoporous TiO2 films prepared at low temperature. *APL Materials*, **2014**, 2, 113313	5.7	16

285	Aggregation-free gold nanoparticles in ordered mesoporous carbons: toward highly active and stable heterogeneous catalysts. *Journal of the American Chemical Society*, **2013**, 135, 11849-60	16.4	176
284	Correlating Photocatalytic Performance with Microstructure of Mesoporous Titania Influenced by Employed Synthesis Conditions. *Journal of Physical Chemistry C*, **2013**, 117, 16492-16499	3.8	7
283	Ordered mesoporous porphyrinic carbons with very high electrocatalytic activity for the oxygen reduction reaction. *Scientific Reports*, **2013**, 3, 2715	4.9	263
282	A review of fine structures of nanoporous materials as evidenced by microscopic methods. *Microscopy (Oxford, England)*, **2013**, 62, 109-46	1.3	39
281	Cobalt phosphate-modified barium-doped tantalum nitride nanorod photoanode with 1.5% solar energy conversion efficiency. *Nature Communications*, **2013**, 4, 2566	17.4	279
280	Nature of Rh Oxide on Rh Nanoparticles and Its Effect on the Catalytic Activity of CO Oxidation. *Catalysis Letters*, **2013**, 143, 1153-1161	2.8	17
279	Direct Observation of Plugs and Intrawall Pores in SBA-15 Using Low Voltage High Resolution Scanning Electron Microscopy and the Influence of Solvent Properties on Plug-Formation. *Chemistry of Materials*, **2013**, 25, 4105-4112	9.6	27
278	A general protocol for determining the structures of molecularly ordered but noncrystalline silicate frameworks. *Journal of the American Chemical Society*, **2013**, 135, 5641-55	16.4	58
277	Structural Study of Hexagonal Close-Packed Silica Mesoporous Crystal. *Chemistry of Materials*, **2013** , 25, 2184-2191	9.6	11
276	Transition Metal Ion-Chelating Ordered Mesoporous Carbons as Noble Metal-Free Fuel Cell Catalysts. *Chemistry of Materials*, **2013**, 25, 856-861	9.6	52
275	Platinum nanopeapods: spatial control of mesopore arrangements by utilizing a physically confined space. *Chemistry - A European Journal*, **2013**, 19, 11564-7	4.8	6
274	Exit wave reconstruction from focal series of HRTEM images, single crystal XRD and total energy studies on SbxWO3+y (x ~ 0.11). *Zeitschrift Fur Kristallographie - Crystalline Materials*, **2012**, 227, 341-349[1]		5
273	Study of Argon Gas Adsorption in Ordered Mesoporous MFI Zeolite Framework. *Journal of Physical Chemistry C*, **2012**, 116, 25300-25308	3.8	15
272	Zeolite Synthesis Using Hierarchical Structure-Directing Surfactants: Retaining Porous Structure of Initial Synthesis Gel and Precursors. *Chemistry of Materials*, **2012**, 24, 2733-2738	9.6	70
271	Electrochemical design of mesoporous Pt-Ru alloy films with various compositions toward superior electrocatalytic performance. *Chemistry - A European Journal*, **2012**, 18, 13142-8	4.8	24
270	Synthesis of chiral TiO□nanofibre with electron transition-based optical activity. *Nature Communications*, **2012**, 3, 1215	17.4	120
269	New Porous Crystals of Extended Metal-Catecholates. *Chemistry of Materials*, **2012**, 24, 3511-3513	9.6	423
268	Synthesis of Mesoporous Pt Films with Tunable Pore Sizes from Aqueous Surfactant Solutions. *Chemistry of Materials*, **2012**, 24, 1591-1598	9.6	148

267	Large-pore apertures in a series of metal-organic frameworks. *Science*, **2012**, 336, 1018-23	33.3	1425
266	Dodecagonal tiling in mesoporous silica. *Nature*, **2012**, 487, 349-53	50.4	119
265	A stand-alone mesoporous crystal structure model from in situ X-ray diffraction: nitrogen adsorption on 3D cagelike mesoporous silica SBA-16. *Chemistry - A European Journal*, **2012**, 18, 10300-11	4.8	18
264	Synthesis of self-pillared zeolite nanosheets by repetitive branching. *Science*, **2012**, 336, 1684-7	33.3	559
263	The role of curvature in silica mesoporous crystals. *Interface Focus*, **2012**, 2, 634-44	3.9	10
262	Shape- and size-controlled synthesis in hard templates: sophisticated chemical reduction for mesoporous monocrystalline platinum nanoparticles. *Journal of the American Chemical Society*, **2011**, 133, 14526-9	16.4	336
261	MECHANICAL PULPING: Cracking mechanisms of clay-based and GCC-based coatings. *Nordic Pulp and Paper Research Journal*, **2011**, 26, 485-492	1.1	10
260	Structural Characterization of Nanosheet-type MFI Zeolite. *Nihon Kessho Gakkaishi*, **2011**, 53, 135-140	0	
259	A layer stacking with large repeating unit in multi-modal cage-type anionic-surfactant-templated silica mesoporous crystal. *Solid State Sciences*, **2011**, 13, 762-767	3.4	8
258	Mesopore generation by organosilane surfactant during LTA zeolite crystallization, investigated by high-resolution SEM and Monte Carlo simulation. *Solid State Sciences*, **2011**, 13, 750-756	3.4	35
257	Hierarchical porous materials: Internal structure revealed by argon ion-beam cross-section polishing, HRSEM and AFM. *Solid State Sciences*, **2011**, 13, 745-749	3.4	9
256	TEM image simulation of mesoporous crystals for structure type identification. *Solid State Sciences*, **2011**, 13, 736-744	3.4	15
255	Studies on zeolite SSZ-57: a structural enigma. *Solid State Sciences*, **2011**, 13, 706-713	3.4	15
254	Single crystal structure analysis of the Se-incorporated mordenite, coupled with the anomalous X-ray scattering. *Solid State Sciences*, **2011**, 13, 684-690	3.4	6
253	A new HRSEM approach to observe fine structures of novel nanostructured materials. *Microporous and Mesoporous Materials*, **2011**, 146, 11-17	5.3	9
252	Exploitation of Surface-Sensitive Electrons in Scanning Electron Microscopy Reveals the Formation Mechanism of New Cubic and Truncated Octahedral CeO2 Nanoparticles. *ChemCatChem*, **2011**, 3, 1038-1044	5.2	21
251	Inside Cover: Exploitation of Surface-Sensitive Electrons in Scanning Electron Microscopy Reveals the Formation Mechanism of New Cubic and Truncated Octahedral CeO2 Nanoparticles (ChemCatChem 6/2011). *ChemCatChem*, **2011**, 3, 918-918	5.2	
250	The porosity, acidity, and reactivity of dealuminated zeolite ZSM-5 at the single particle level: the influence of the zeolite architecture. *Chemistry - A European Journal*, **2011**, 17, 13773-81	4.8	81

249	Bicontinuous cubic mesoporous materials with biphasic structures. *Chemistry - A European Journal*, **2011**, 17, 13510-6	4.8	7
248	Ultrathin titania coating for high-temperature stable SiO2/Pt nanocatalysts. *Chemical Communications*, **2011**, 47, 8412-4	5.8	23
247	Advanced electron microscopy characterization for pore structure of mesoporous materials; a study of FDU-16 and FDU-18. *Journal of Materials Chemistry*, **2011**, 21, 13664		8
246	AFM and HRSEM Invesitigation of Zeolite A Crystal Growth. Part 1: In the Absence of Organic Additives. *Journal of Physical Chemistry C*, **2011**, 115, 12567-12574	3.8	19
245	Evolution of packing parameters in the structural changes of silica mesoporous crystals: cage-type, 2D cylindrical, bicontinuous diamond and gyroid, and lamellar. *Journal of the American Chemical Society*, **2011**, 133, 11524-33	16.4	47
244	Carboxylic group functionalized ordered mesoporous silicas. *Journal of Materials Chemistry*, **2011**, 21, 11033		36
243	Synthesis of nanoparticulate anatase and rutile crystallites at low temperatures in the Pluronic F127 microemulsion system. *Journal of Materials Research*, **2011**, 26, 288-295	2.5	12
242	Tailored synthesis of mesoporous platinum replicas using double gyroid mesoporous silica (KIT-6) with different pore diameters via vapor infiltration of a reducing agent. *Chemical Communications*, **2010**, 46, 6365-7	5.8	68
241	Growth of Single-Crystal Mesoporous Carbons with Im3 m Symmetry. *Chemistry of Materials*, **2010**, 22, 4828-4833	9.6	66
240	Pillared MFI zeolite nanosheets of a single-unit-cell thickness. *Journal of the American Chemical Society*, **2010**, 132, 4169-77	16.4	404
239	Spatially and size selective synthesis of Fe-based nanoparticles on ordered mesoporous supports as highly active and stable catalysts for ammonia decomposition. *Journal of the American Chemical Society*, **2010**, 132, 14152-62	16.4	229
238	Coaxial Core Shell Overgrowth of Zeolite L □Dependence on Original Crystal Growth Mechanism. *Crystal Growth and Design*, **2010**, 10, 5182-5186	3.5	13
237	Unstitching the nanoscopic mystery of zeolite crystal formation. *Journal of the American Chemical Society*, **2010**, 132, 13858-68	16.4	32
236	Evolution of surface morphology with introduction of stacking faults in zeolites. *Chemistry - A European Journal*, **2010**, 16, 2220-30	4.8	16
235	Self-Consistent Structural Solution of Mesoporous Crystals by Combined Electron Crystallography and Curvature Assessment. *Angewandte Chemie*, **2010**, 122, 9051-9055	3.6	5
234	Highly active iron oxide supported gold catalysts for CO oxidation: how small must the gold nanoparticles be?. *Angewandte Chemie - International Edition*, **2010**, 49, 5771-5	16.4	136
233	Self-consistent structural solution of mesoporous crystals by combined electron crystallography and curvature assessment. *Angewandte Chemie - International Edition*, **2010**, 49, 8867-71	16.4	13
232	Accidental extinction in powder XRD intensity of porous crystals: Mesoporous carbon crystal CMK-5 and layered zeolite-nanosheets. *Microporous and Mesoporous Materials*, **2010**, 128, 71-77	5.3	33

231	A novel SEM cross-section analysis of paper coating for separation of latex from void volume. *Nordic Pulp and Paper Research Journal*, **2010**, 25, 107-113	1.1	7
230	Insight into the defects of cage-type silica mesoporous crystals with Fd3m symmetry: TEM observations and a new proposal of "polyhedron packing" for the crystals. *Chemistry - A European Journal*, **2009**, 15, 2818-25	4.8	22
229	Stable single-unit-cell nanosheets of zeolite MFI as active and long-lived catalysts. *Nature*, **2009**, 461, 246-9	50.4	1634
228	Incorporation of antimicrobial compounds in mesoporous silica film monolith. *Biomaterials*, **2009**, 30, 5729-36	15.6	101
227	Mesostructured silica based delivery system for a drug with a peptide as a cell-penetrating vector. *Microporous and Mesoporous Materials*, **2009**, 122, 201-207	5.3	28
226	Nanoscale Electron Beam Damage Studied by Atomic Force Microscopy. *Journal of Physical Chemistry C*, **2009**, 113, 18441-18443	3.8	6
225	Structural Characterization of Interlayer Expanded Zeolite Prepared From Ferrierite Lamellar Precursor. *Chemistry of Materials*, **2009**, 21, 2904-2911	9.6	65
224	Structural Analyses of Intergrowth and Stacking Fault in Cage-Type Mesoporous Crystals. *Chemistry of Materials*, **2009**, 21, 223-229	9.6	24
223	Density Functional Theory of in Situ Synchrotron Powder X-ray Diffraction on Mesoporous Crystals: Argon Adsorption on MCM-41. *Journal of Physical Chemistry C*, **2009**, 113, 791-794	3.8	37
222	Formation of two- and three-dimensional hybrid mesostructures from branched siloxane molecules. *Journal of the American Chemical Society*, **2009**, 131, 9634-5	16.4	41
221	Ordered Mesoporous Microspheres for Bone Grafting and Drug Delivery. *Chemistry of Materials*, **2009**, 21, 1000-1009	9.6	162
220	Ordered mesoporous Pd/silica-carbon as a highly active heterogeneous catalyst for coupling reaction of chlorobenzene in aqueous media. *Journal of the American Chemical Society*, **2009**, 131, 4541-50	16.4	319
219	Mesoporous Microspheres with Doubly Ordered Core−Shell Structure. *Chemistry of Materials*, **2009**, 21, 18-20	9.6	33
218	An amphoteric mesoporous silica catalyzed aldol reaction. *Catalysis Communications*, **2009**, 10, 1386-1389	3.2	40
217	High-Performance Mesoporous Bioceramics Mimicking Bone Mineralization. *Chemistry of Materials*, **2008**, 20, 3191-3198	9.6	108
216	Nanometre resolution using high-resolution scanning electron microscopy corroborated by atomic force microscopy. *Chemical Communications*, **2008**, 3894-6	5.8	11
215	Steric and Temperature Control of Enantiopurity of Chiral Mesoporous Silica. *Journal of Physical Chemistry C*, **2008**, 112, 1871-1877	3.8	42
214	Active Biocatalysts Based on Pepsin Immobilized in Mesoporous SBA-15. *Journal of Physical Chemistry C*, **2008**, 112, 18110-18116	3.8	51

213	Argon Adsorption on MCM-41 Mesoporous Crystal Studied by In Situ Synchrotron Powder X-ray Diffraction. *Journal of Physical Chemistry C*, **2008**, 112, 10803-10813	3.8	50
212	Methodology for synthesizing crystalline metallosilicates with expanded pore windows through molecular alkoxysilylation of zeolitic lamellar precursors. *Journal of the American Chemical Society*, **2008**, 130, 8178-87	16.4	187
211	High-Resolution scanning electron and atomic force microscopies: observation of nanometer features on zeolite Surfaces. *Studies in Surface Science and Catalysis*, **2008**, 174, 775-780	1.8	4
210	Challenges in biocatalysis: immobilization of pepsin in mesoporous silicates. *Studies in Surface Science and Catalysis*, **2008**, 174, 1327-1330	1.8	1
209	Electron charge distribution of CaAl2□Znx: Maximum entropy method combined with Rietveld analysis of high-resolution-synchrotron X-ray powder diffraction data. *Journal of Solid State Chemistry*, **2008**, 181, 1998-2005	3.3	5
208	Mesoporous silicas by self-assembly of lipid molecules: ribbon, hollow sphere, and chiral materials. *Chemistry - A European Journal*, **2008**, 14, 6413-20	4.8	49
207	Formation of diverse mesophases templated by a diprotic anionic surfactant. *Chemistry - A European Journal*, **2008**, 14, 11423-8	4.8	30
206	Synthesis and Characterization of Silica Nanotubes with Radially Oriented Mesopores. *Advanced Functional Materials*, **2008**, 18, 541-550	15.6	60
205	Formation of Chiral Mesopores in Conducting Polymers by Chiral-Lipid-Ribbon Templating and □eeding□Route. *Advanced Functional Materials*, **2008**, 18, 2699-2707	15.6	40
204	Aerobic Oxidations Catalyzed by Zeolite-Encapsulated Cobalt Salophen. *Advanced Synthesis and Catalysis*, **2008**, 350, 1807-1815	5.6	14
203	Synthesis of carboxylic group functionalized mesoporous silicas (CFMSs) with various structures. *Journal of Materials Chemistry*, **2007**, 17, 1216		61
202	Molecular design of the surfactant and the co-structure-directing agent (CSDA) toward rational synthesis of targeted anionic surfactant templated mesoporous silica. *Journal of Materials Chemistry*, **2007**, 17, 3591		38
201	On the use of polymeric dispersant P123 in the synthesis of bicontinuous cubic mesoporous AMS-6. *Journal of Materials Chemistry*, **2007**, 17, 3622		7
200	Insights into the crystal growth mechanisms of zeolites from combined experimental imaging and theoretical studies. *Faraday Discussions*, **2007**, 136, 125-41; discussion 213-29	3.6	23
199	A Novel Route for Synthesizing Silica Nanotubes with Chiral Mesoporous Wall Structures. *Chemistry of Materials*, **2007**, 19, 1577-1583	9.6	73
198	Aerosol-Assisted Synthesis of Magnetic Mesoporous Silica Spheres for Drug Targeting. *Chemistry of Materials*, **2007**, 19, 3455-3463	9.6	140
197	Structure and thermal stability of mesostructured zirconium oxophosphates. *Microporous and Mesoporous Materials*, **2007**, 100, 295-301	5.3	9
196	Mesoporous silicalite-1 zeolite crystals with unique pore shapes analogous to the morphology. *Microporous and Mesoporous Materials*, **2007**, 106, 174-179	5.3	52

195	Synthesis of silica mesoporous crystals with controlled structure and morphology using gemini surfactant. *Microporous and Mesoporous Materials*, **2007**, 105, 24-33	5.3	13
194	TEM investigation of the microporous compound VSB-1: Building units and crystal growth mechanisms. *Journal of Solid State Chemistry*, **2007**, 180, 885-893	3.3	3
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