

Hua Chun Zeng

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252 papers	22,027 citations	75 h-index	143 g-index
267 ext. papers	23,330 ext. citations	8.5 avg, IF	7.66 L-index

#	Paper	IF	Citations
252	Hydrothermal synthesis of ZnO nanorods in the diameter regime of 50 nm. <i>Journal of the American Chemical Society</i> , 2003 , 125, 4430-1	16.4	1191
251	Preparation of Hollow Anatase TiO ₂ Nanospheres via Ostwald Ripening. <i>Journal of Physical Chemistry B</i> , 2004 , 108, 3492-3495	3.4	887
250	Mesoscale organization of CuO nanoribbons: formation of "dandelions". <i>Journal of the American Chemical Society</i> , 2004 , 126, 8124-5	16.4	771
249	Symmetric and asymmetric Ostwald ripening in the fabrication of homogeneous core-shell semiconductors. <i>Small</i> , 2005 , 1, 566-71	11	563
248	Fabrication of ZnO "dandelions" via a modified Kirkendall process. <i>Journal of the American Chemical Society</i> , 2004 , 126, 16744-6	16.4	512
247	Mesoporous Co ₃ O ₄ and CoO@C Topotactically Transformed from Chrysanthemum-like Co(CO ₃) _{0.5} (OH)·1.1H ₂ O and Their Lithium-Storage Properties. <i>Advanced Functional Materials</i> , 2012 , 22, 861-871	15.6	506
246	Hollowing Sn-doped TiO ₂ nanospheres via ostwald ripening. <i>Journal of the American Chemical Society</i> , 2007 , 129, 15839-47	16.4	494
245	Highly Reversible Lithium Storage in Porous SnO ₂ Nanotubes with Coaxially Grown Carbon Nanotube Overlayers. <i>Advanced Materials</i> , 2006 , 18, 645-649	24	456
244	Formation of colloidal CuO nanocrystallites and their spherical aggregation and reductive transformation to hollow Cu ₂ O nanospheres. <i>Langmuir</i> , 2005 , 21, 1074-9	4	445
243	Synthetic architecture of interior space for inorganic nanostructures. <i>Journal of Materials Chemistry</i> , 2006 , 16, 649-662		436
242	Self-construction of hollow SnO(2) octahedra based on two-dimensional aggregation of nanocrystallites. <i>Angewandte Chemie - International Edition</i> , 2004 , 43, 5930-3	16.4	413
241	Polycrystalline SnO ₂ Nanotubes Prepared via Infiltration Casting of Nanocrystallites and Their Electrochemical Application. <i>Chemistry of Materials</i> , 2005 , 17, 3899-3903	9.6	409
240	Large-scale synthesis of high-quality ultralong copper nanowires. <i>Langmuir</i> , 2005 , 21, 3746-8	4	406
239	Fabrications of hollow nanocubes of Cu(2)O and Cu via reductive self-assembly of CuO nanocrystals. <i>Langmuir</i> , 2006 , 22, 7369-77	4	375
238	Preparation of nanocomposites of metals, metal oxides, and carbon nanotubes via self-assembly. <i>Journal of the American Chemical Society</i> , 2007 , 129, 9401-9	16.4	321
237	Hydrothermal Synthesis of HMoO ₃ Nanorods via Acidification of Ammonium Heptamolybdate Tetrahydrate. <i>Chemistry of Materials</i> , 2002 , 14, 4781-4789	9.6	311
236	Synthesis, morphological control, and antibacterial properties of hollow/solid Ag ₂ S/Ag heterodimers. <i>Journal of the American Chemical Society</i> , 2010 , 132, 10771-85	16.4	298

235	Ostwald Ripening: A Synthetic Approach for Hollow Nanomaterials. <i>Current Nanoscience</i> , 2007 , 3, 177-181	14	295
234	Abrupt Structural Transformation in Hydrotalcite-like Compounds $Mg_{1-x}Al_x(OH)_2(NO_3)_x \cdot nH_2O$ as a Continuous Function of Nitrate Anions. <i>Journal of Physical Chemistry B</i> , 2001 , 105, 1743-1749	3-4	265
233	Room temperature solution synthesis of monodispersed single-crystalline ZnO nanorods and derived hierarchical nanostructures. <i>Langmuir</i> , 2004 , 20, 4196-204	4	263
232	Dimensional Control of Cobalt-hydroxide-carbonate Nanorods and Their Thermal Conversion to One-Dimensional Arrays of Co_3O_4 Nanoparticles. <i>Journal of Physical Chemistry B</i> , 2003 , 107, 12643-12649	3-4	249
231	Size-Controlled Growth of Co_3O_4 Nanocubes. <i>Chemistry of Materials</i> , 2003 , 15, 2829-2835	9.6	246
230	Synthesis of complex nanomaterials via Ostwald ripening. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 4843-4851	3-4	238
229	Synthesis, self-assembly, disassembly, and reassembly of two types of Cu_2O nanocrystals uniaxially with {001} or {110} planes. <i>Journal of the American Chemical Society</i> , 2010 , 132, 6131-44	16.4	237
228	Controlled Synthesis and Self-Assembly of Single-Crystalline CuO Nanorods and Nanoribbons. <i>Crystal Growth and Design</i> , 2004 , 4, 397-402	3.5	233
227	Synthesis of Single-Crystalline TiO_2 Nanotubes. <i>Chemistry of Materials</i> , 2002 , 14, 1391-1397	9.6	233
226	Self-generation of tiered surfactant superstructures for one-pot synthesis of Co_3O_4 nanocubes and their close- and non-close-packed organizations. <i>Langmuir</i> , 2004 , 20, 9780-90	4	232
225	Size tuning, functionalization, and reactivation of Au in TiO_2 nanoreactors. <i>Angewandte Chemie - International Edition</i> , 2005 , 44, 4342-5	16.4	230
224	Synthesis and integration of Fe-soc-MOF cubes into colloidosomes via a single-step emulsion-based approach. <i>Journal of the American Chemical Society</i> , 2013 , 135, 10234-7	16.4	228
223	CO_2 Reforming of Methane to Synthesis Gas over Sol-Gel-made Ni/Al_2O_3 Catalysts from Organometallic Precursors. <i>Journal of Catalysis</i> , 2000 , 194, 424-430	7.3	226
222	Complex $\alpha-MoO_3$ nanostructures with external bonding capacity for self-assembly. <i>Journal of the American Chemical Society</i> , 2003 , 125, 2697-704	16.4	189
221	Synthesis and Functionalization of Oriented Metal-Organic-Framework Nanosheets: Toward a Series of 2D Catalysts. <i>Advanced Functional Materials</i> , 2016 , 26, 3268-3281	15.6	181
220	Carbon Nanotubes Supported Mesoporous Mesocrystals of Anatase TiO_2 . <i>Chemistry of Materials</i> , 2008 , 20, 2711-2718	9.6	180
219	Arresting butterfly-like intermediate nanocrystals of $\beta-Co(OH)_2$ via ethylenediamine-mediated synthesis. <i>Journal of the American Chemical Society</i> , 2002 , 124, 6668-75	16.4	180
218	Morphogenesis of Highly Uniform $CoCO_3$ Submicrometer Crystals and Their Conversion to Mesoporous Co_3O_4 for Gas-Sensing Applications. <i>Chemistry of Materials</i> , 2009 , 21, 4984-4992	9.6	179

- 217 Creation of intestine-like interior space for metal-oxide nanostructures with a quasi-reverse emulsion. *Angewandte Chemie - International Edition*, **2004**, 43, 5206-9 16.4 177
- 216 Manipulative Synthesis of Multipod Frameworks for Self-Organization and Self-Amplification of Cu₂O Microcrystals. *Crystal Growth and Design*, **2004**, 4, 273-278 3.5 168
- 215 Metal-Support Interactions in Co/Al₂O₃ Catalysts: A Comparative Study on Reactivity of Support. *Journal of Physical Chemistry B*, **2000**, 104, 1783-1790 3.4 168
- 214 Synthetic architectures of TiO₂/H₂Ti₅O₁₁·H₂O, ZnO/H₂Ti₅O₁₁·H₂O, ZnO/TiO₂/H₂Ti₅O₁₁·H₂O, and ZnO/TiO₂ nanocomposites. *Journal of the American Chemical Society*, **2005**, 127, 270-8 16.4 162
- 213 Serial ionic exchange for the synthesis of multishelled copper sulfide hollow spheres. *Angewandte Chemie - International Edition*, **2012**, 51, 949-52 16.4 158
- 212 Mechanistic Investigation on Salt-Mediated Formation of Free-Standing Co₃O₄ Nanocubes at 95 °C. *Journal of Physical Chemistry B*, **2003**, 107, 926-930 3.4 140
- 211 Thermal evolution of cobalt hydroxides: a comparative study of their various structural phases. *Journal of Materials Chemistry*, **1998**, 8, 2499-2506 138
- 210 Self-Assembled Hollow Spheres of Ni(OH)₂ and Their Derived Nanomaterials. *Chemistry of Materials*, **2009**, 21, 871-883 9.6 134
- 209 Synthesis and self-assembly of complex hollow materials. *Journal of Materials Chemistry*, **2011**, 21, 7511 133
- 208 Armored MOFs: enforcing soft microporous MOF nanocrystals with hard mesoporous silica. *Journal of the American Chemical Society*, **2014**, 136, 5631-9 16.4 128
- 207 Preparation of Monodisperse Au/TiO₂ Nanocatalysts via Self-Assembly. *Chemistry of Materials*, **2006**, 18, 4270-4277 9.6 125
- 206 Highly monodisperse M(III)-based sod-MOFs (M = In and Ga) with cubic and truncated cubic morphologies. *Journal of the American Chemical Society*, **2012**, 134, 13176-9 16.4 122
- 205 Semiconductor rings fabricated by self-assembly of nanocrystals. *Journal of the American Chemical Society*, **2005**, 127, 18262-8 16.4 118
- 204 Integrated nanocatalysts. *Accounts of Chemical Research*, **2013**, 46, 226-35 24.3 117
- 203 Self-cleaning and antireflective packaging glass for solar modules. *Renewable Energy*, **2011**, 36, 2489-2493 116
- 202 ZnO/PVP Nanocomposite Spheres with Two Hemispheres. *Journal of Physical Chemistry C*, **2007**, 111, 13301-13308 3.8 113
- 201 Low-Temperature Synthesis of Mg_xCo_{1-x}Co₂O₄ Spinel Catalysts for N₂O Decomposition. *Chemistry of Materials*, **2000**, 12, 650-658 9.6 110
- 200 Surface and Bulk Integrations of Single-Layered Au or Ag Nanoparticles onto Designated Crystal Planes {110} or {100} of ZIF-8. *Chemistry of Materials*, **2013**, 25, 1761-1768 9.6 109

199	Salt-Assisted Deposition of SnO ₂ on HMoO ₃ Nanorods and Fabrication of Polycrystalline SnO ₂ Nanotubes. <i>Journal of Physical Chemistry B</i> , 2004 , 108, 5867-5874	3.4	109
198	Multifunctional Roles of TiO ₂ Nanoparticles for Architecture of Complex Core/Shell and Hollow Spheres of SiO ₂ /TiO ₂ /Polyaniline System. <i>Chemistry of Materials</i> , 2009 , 21, 4811-4823	9.6	106
197	Decomposition Pathways of Hydrotalcite-like Compounds Mg _{1-x} Al _x (OH) ₂ (NO ₃) _x ·nH ₂ O as a Continuous Function of Nitrate Anions. <i>Chemistry of Materials</i> , 2001 , 13, 4564-4572	9.6	106
196	An inorganic route for controlled synthesis of WO ₃ nanorods and nanofibers in solution. <i>Inorganic Chemistry</i> , 2003 , 42, 6169-71	5.1	102
195	Targeted synthesis of silicomolybdic acid (Keggin acid) inside mesoporous silica hollow spheres for Friedel-Crafts alkylation. <i>Journal of the American Chemical Society</i> , 2012 , 134, 16235-46	16.4	100
194	Low-energy electron-diffraction crystallographic determination for the Cu(110)2 × 1-O surface structure. <i>Physical Review B</i> , 1990 , 41, 5432-5435	3.3	97
193	Highly ordered self-assemblies of submicrometer Cu ₂ O spheres and their hollow chalcogenide derivatives. <i>Langmuir</i> , 2010 , 26, 5963-70	4	95
192	Hollow ZnO Microspheres with Complex Nanobuilding Units. <i>Chemistry of Materials</i> , 2007 , 19, 5824-5826	9.6	93
191	Synthesis of High-Surface-Area Alumina Using Aluminum Tri-sec-butoxide, 4-Pentanedione, 2-Propanol, Nitric Acid Precursors. <i>Chemistry of Materials</i> , 2000 , 12, 931-939	9.6	93
190	A catalyst-free approach for sol-gel synthesis of highly mixed ZrO ₂ /BiO ₂ oxides. <i>Journal of Non-Crystalline Solids</i> , 1999 , 243, 26-38	3.9	93
189	Mechanistic Investigation on Self-redox Decompositions of Cobalt Hydroxide Nitrate Compounds with Different Nitrate Anion Configurations in Interlayer Space. <i>Chemistry of Materials</i> , 2003 , 15, 2040-2048	8.6	87
188	ZIF-67-Derived Nanoreactors for Controlling Product Selectivity in CO ₂ Hydrogenation. <i>ACS Catalysis</i> , 2017 , 7, 7509-7519	13.1	85
187	Integrated nanocatalysts with mesoporous silica/silicate and microporous MOF materials. <i>Coordination Chemistry Reviews</i> , 2016 , 320-321, 181-192	23.2	85
186	Integrated Networks of Mesoporous Silica Nanowires and Their Bifunctional Catalysis/Absorption Application for Oxidative Desulfurization. <i>ACS Catalysis</i> , 2014 , 4, 566-576	13.1	82
185	TiO ₂ thin films prepared via adsorptive self-assembly for self-cleaning applications. <i>ACS Applied Materials & Interfaces</i> , 2012 , 4, 1093-102	9.5	82
184	Synthetic Architecture of Multiple Core/Shell and Yolk/Shell Structures of (Cu ₂ [email-protected]) _n Cu ₂ O (n = 1-4) with Centricity and Eccentricity. <i>Chemistry of Materials</i> , 2012 , 24, 1917-1929	9.6	78
183	Creation of Interior Space, Architecture of Shell Structure, and Encapsulation of Functional Materials for Mesoporous SiO ₂ Spheres. <i>Chemistry of Materials</i> , 2011 , 23, 4886-4899	9.6	78
182	Self-Construction of Hollow SnO ₂ Octahedra Based on Two-Dimensional Aggregation of Nanocrystallites. <i>Angewandte Chemie</i> , 2004 , 116, 6056-6059	3.6	78

- 181 Decomposition Processes of Organic-Anion-Pillared Clays CoaMgbAl(OH)c(TA)dH₂O. *Journal of Physical Chemistry B*, **2000**, 104, 10206-10214 3.4 77
- 180 Oxygen on Cu(100) surface structure studied by scanning tunneling microscopy and by low-energy-electron-diffraction multiple-scattering calculations. *Physical Review B*, **1990**, 42, 11926-11929 3.3 77
- 179 Bimetallic NiFe phosphide nanocomposites with a controlled architecture and composition enabling highly efficient electrochemical water oxidation. *Journal of Materials Chemistry A*, **2018**, 6, 2231-2238 1.3 76
- 178 Architecture and Preparation of Hollow Catalytic Devices. *Advanced Materials*, **2019**, 31, e1801104 2.4 76
- 177 Self-templating synthesis of hollow spheres of MOFs and their derived nanostructures. *Chemical Communications*, **2016**, 52, 11591-4 5.8 75
- 176 Nanobubbles within a microbubble: synthesis and self-assembly of hollow manganese silicate and its metal-doped derivatives. *ACS Nano*, **2014**, 8, 6407-16 16.7 69
- 175 Simultaneous synthesis and assembly of noble metal nanoclusters with variable micellar templates. *Journal of the American Chemical Society*, **2014**, 136, 13805-17 16.4 69
- 174 Direct growth of enclosed ZnO nanotubes. *Nano Research*, **2009**, 2, 201-209 10 69
- 173 Control of Surface Area and Porosity of Co₃O₄ via Intercalation of Oxidative or Nonoxidative Anions in Hydrotalcite-like Precursors. *Chemistry of Materials*, **2000**, 12, 3459-3465 9.6 69
- 172 Hydrogen spillover through Matryoshka-type (ZIFs@)ZIFs nanocubes. *Nature Communications*, **2018**, 9, 3778 17.4 69
- 171 Sandwich-Like Nanocomposite of CoNiOx/Reduced Graphene Oxide for Enhanced Electrocatalytic Water Oxidation. *Advanced Functional Materials*, **2017**, 27, 1606325 15.6 68
- 170 Alternative synthetic approaches for metal-organic frameworks: transformation from solid matters. *Chemical Communications*, **2016**, 53, 72-81 5.8 63
- 169 Chemical Etching of Molybdenum Trioxide: A New Tailor-Made Synthesis of MoO₃ Catalysts. *Inorganic Chemistry*, **1998**, 37, 1967-1973 5.1 63
- 168 Further LEED investigations of missing row models for the surface structure. *Surface Science*, **1990**, 239, L571-L578 1.8 63
- 167 The mixed metal cluster (n-Bu₄N)₂[MoCu₃OS₃(NCS)₃]: the first example of a nest-shaped compound with large third-order polarizability and optical limiting effect. *Materials Chemistry and Physics*, **1995**, 39, 298-303 4.4 62
- 166 High-Temperature Carbon Monoxide Potentiometric Sensor. *Journal of the Electrochemical Society*, **1993**, 140, 1068-1073 3.9 59
- 165 Calcium carbonate nanotablets: bridging artificial to natural nacre. *Advanced Materials*, **2012**, 24, 6277-824 57
- 164 A leed crystallographic analysis for the Cu(100)c(2x2)-N surface structure. *Surface Science*, **1987**, 188, 599-608 1.8 57

163	Site-specific growth of Au particles on ZnO nanopyramids under ultraviolet illumination. <i>Nanoscale</i> , 2011 , 3, 4195-200	7.7	56
162	A General Synthetic Approach for Integrated Nanocatalysts of [email[protected]]. <i>Chemistry of Materials</i> , 2016 , 28, 326-336	9.6	55
161	Synthesis of Lithium Niobate Gels Using a Metal Alkoxide/Metal Nitrate Precursor. <i>Chemistry of Materials</i> , 1996 , 8, 2667-2672	9.6	55
160	Symmetric Linear Assembly of Hourglass-like ZnO Nanostructures. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 2032-2039	3.8	54
159	Control of Nucleation in Solution Growth of Anatase TiO ₂ on Glass Substrate. <i>Journal of Physical Chemistry B</i> , 2003 , 107, 12244-12255	3.4	54
158	Synthesis of Nanosize Supported Hydrotalcite-like Compounds CoAl _x (OH) ₂ +2x(CO ₃) _y (NO ₃) _{x-2y} ·nH ₂ O on γ-Al ₂ O ₃ . <i>Chemistry of Materials</i> , 2001 , 13, 297-303	9.6	53
157	Ag nanoprisms with Ag ₂ S attachment. <i>Scientific Reports</i> , 2013 , 3, 2177	4.9	52
156	Synthesis and characterization of MgTiO catalytic oxidematerials for low-temperature N ₂ O decomposition. <i>Journal of Materials Chemistry</i> , 1997 , 7, 493-499		52
155	Deposition method for preparing SERS-active gold nanoparticle substrates. <i>Analytical Chemistry</i> , 2005 , 77, 7462-71	7.8	52
154	Size Tuning, Functionalization, and Reactivation of Au in TiO ₂ Nanoreactors. <i>Angewandte Chemie</i> , 2005 , 117, 4416-4419	3.6	52
153	3D Networks of CoFePi with Hierarchical Porosity for Effective OER Electrocatalysis. <i>Small</i> , 2018 , 14, e1704403	11	51
152	Solution-Based Epitaxial Growth of Magnetically Responsive [email[protected]] Nanowires. <i>Chemistry of Materials</i> , 2010 , 22, 1282-1284	9.6	51
151	CoHPi Nanoflakes for Enhanced Oxygen Evolution Reaction. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 6288-6298	9.5	50
150	Preparation of a Ru-Nanoparticles/Defective-Graphene Composite as a Highly Efficient Arene-Hydrogenation Catalyst. <i>ChemCatChem</i> , 2012 , 4, 1938-1942	5.2	49
149	Synthetic Architecture of MgO/C Nanocomposite from Hierarchical-Structured Coordination Polymer toward Enhanced CO Capture. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 9592-9602	9.5	48
148	Catalytic decomposition of nitrous oxide on alumina-supported ruthenium catalysts Ru/Al ₂ O ₃ . <i>Applied Catalysis B: Environmental</i> , 1997 , 13, 113-122	21.8	48
147	Generating isotropic superparamagnetic interconnectivity for the two-dimensional organization of nanostructured building blocks. <i>Angewandte Chemie - International Edition</i> , 2006 , 45, 2713-7	16.4	48
146	Asymmetric ZnO nanostructures with an interior cavity. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 14736-43	5.4	48

145	Synthesis of Non-Al-Containing Hydrotalcite-like Compound Mg _{0.3} CoII _{0.6} CoIII _{0.2} (OH) ₂ (NO ₃) _{0.2} ·H ₂ O. <i>Chemistry of Materials</i> , 1998 , 10, 2277-2283	9.6	46
144	Defect Creation in HKUST-1 via Molecular Imprinting: Attaining Anionic Framework Property and Mesoporosity for Cation Exchange Applications. <i>Advanced Functional Materials</i> , 2017 , 27, 1703765	15.6	45
143	Immobilization of Metal-Organic Framework Nanocrystals for Advanced Design of Supported Nanocatalysts. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 29551-29564	9.5	45
142	Investigation with low-energy electron diffraction of the adsorbate-induced metal relaxations in the Cu(100)-(2 × 2)-S surface structure. <i>Physical Review B</i> , 1989 , 39, 8000-8002	3.3	44
141	Oriented attachment: a versatile approach for construction of nanomaterials. <i>International Journal of Nanotechnology</i> , 2007 , 4, 329	1.5	42
140	Advanced oxygen evolution catalysis by bimetallic Ni-Fe phosphide nanoparticles encapsulated in nitrogen, phosphorus, and sulphur tri-doped porous carbon. <i>Chemical Communications</i> , 2017 , 53, 6025-6028	5.8	41
139	Synthetic Chemistry and Multifunctionality of an Amorphous Ni-MOF-74 Shell on a Ni/SiO ₂ Hollow Catalyst for Efficient Tandem Reactions. <i>Chemistry of Materials</i> , 2019 , 31, 5320-5330	9.6	41
138	Large-Scale Organizations of MoO ₃ Nanoplatelets with Single-Crystalline MoO ₃ (4,4'-bipyridyl) _{0.5} . <i>Journal of Physical Chemistry B</i> , 2003 , 107, 2619-2622	3.4	41
137	Metal-Hydroxide and Gold-Nanocluster Interfaces: Enhancing Catalyst Activity and Stability for Oxygen Evolution Reaction. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 29348-29357	3.8	41
136	Charge-Switchable Integrated Nanocatalysts for Substrate-Selective Degradation in Advanced Oxidation Processes. <i>Chemistry of Materials</i> , 2016 , 28, 4572-4582	9.6	40
135	Silica nanowires encapsulated Ru nanoparticles as stable nanocatalysts for selective hydrogenation of CO ₂ to CO. <i>Applied Catalysis B: Environmental</i> , 2017 , 219, 580-591	21.8	40
134	Sulfidation of Single Molecular Sheets of MoO ₃ Pillared by Bipyridine in Nanohybrid MoO ₃ (4,4'-bipyridyl) _{0.5} . <i>Chemistry of Materials</i> , 2003 , 15, 433-442	9.6	40
133	Ionic Interactions in Crystallite Growth of CoMgAl-hydrotalcite-like Compounds. <i>Chemistry of Materials</i> , 2001 , 13, 4555-4563	9.6	40
132	Preparation of Mo-Embedded Mesoporous Carbon Microspheres for Friedel-Crafts Alkylation. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 7767-7775	3.8	39
131	Correlation of PbMoO ₄ crystal imperfections to Czochralski growth process. <i>Journal of Crystal Growth</i> , 1997 , 171, 136-145	1.6	39
130	A Synthetic Protocol for Preparation of Binary Multi-shelled Hollow Spheres and Their Enhanced Oxidation Application. <i>Chemistry of Materials</i> , 2017 , 29, 10104-10112	9.6	38
129	General Strategy for Preparation of Carbon-Nanotube-Supported Nanocatalysts with Hollow Cavities and Mesoporous Shells. <i>Chemistry of Materials</i> , 2015 , 27, 726-734	9.6	38
128	Simultaneous Chemical Modification and Structural Transformation of Stober Silica Spheres for Integration of Nanocatalysts. <i>Chemistry of Materials</i> , 2012 , 24, 140-148	9.6	38

127	Constrained Growth of MoS ₂ Nanosheets within a Mesoporous Silica Shell and Its Effects on Defect Sites and Catalyst Stability for H ₂ S Decomposition. <i>ACS Catalysis</i> , 2018 , 8, 714-724	13.1	38
126	Vapour phase growth of orthorhombic molybdenum trioxide crystals at normal pressure of purified air. <i>Journal of Crystal Growth</i> , 1998 , 186, 393-402	1.6	37
125	Gold Sponges Prepared via Hydrothermally Activated Self-Assembly of Au Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 6970-6975	3.8	37
124	Self-generated etchant for synthetic sculpturing of Cu ₂ O-Au, Cu ₂ O@Au, Au/Cu ₂ O, and 3D-Au nanostructures. <i>Chemistry - A European Journal</i> , 2012 , 18, 14605-9	4.8	36
123	Sulfate-Functionalized Carbon/Metal-Oxide Nanocomposites from Hydrotalcite-like Compounds. <i>Nano Letters</i> , 2001 , 1, 703-706	11.5	36
122	Coordination chemistry and antisolvent strategy to rare-earth solid solution colloidal spheres. <i>Journal of the American Chemical Society</i> , 2012 , 134, 19084-91	16.4	35
121	Gold(I)-alkanethiolate nanotubes. <i>Advanced Materials</i> , 2009 , 21, 4962-4965	24	35
120	Crystallization and glass formation in 50Li ₂ O-50Nb ₂ O ₅ and 25Li ₂ O-25Nb ₂ O ₅ -50SiO ₂ . <i>Journal of Non-Crystalline Solids</i> , 1997 , 209, 112-121	3.9	35
119	Mesoporous Niobium Oxide Spheres as an Effective Catalyst for the Transamidation of Primary Amides with Amines. <i>Advanced Synthesis and Catalysis</i> , 2014 , 356, 475-484	5.6	34
118	In-Situ Generation of Maximum Trivalent Cobalt in Synthesis of Hydrotalcite-like Compounds Mg _x Co _{11-x} yCo _{11y} (OH) ₂ (NO ₃) _y ·nH ₂ O. <i>Chemistry of Materials</i> , 2000 , 12, 2597-2603	9.6	34
117	Thermal Processes of Volatile RuO ₂ in Nanocrystalline Al ₂ O ₃ Matrixes Involving β -Phase Transformation. <i>Chemistry of Materials</i> , 2001 , 13, 2403-2412	9.6	34
116	What determines the structures formed by oxygen at low index surfaces of copper?. <i>Progress in Surface Science</i> , 1995 , 50, 247-257	6.6	33
115	A further LEED study for the surface structure designated copper(100)-c(2 .times. 2)-nitrogen. <i>Langmuir</i> , 1989 , 5, 829-833	4	33
114	Ultrafine Alloy Nanoparticles Converted from 2D Intercalated Coordination Polymers for Catalytic Application. <i>Advanced Functional Materials</i> , 2016 , 26, 5658-5668	15.6	33
113	Transformation of Stober Silica Spheres to Hollow Hierarchical Single-Crystal ZSM-5 Zeolites with Encapsulated Metal Nanocatalysts for Selective Catalysis. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 14774-14785	9.5	32
112	Mesoporous bubble-like manganese silicate as a versatile platform for design and synthesis of nanostructured catalysts. <i>Chemistry - A European Journal</i> , 2015 , 21, 1882-7	4.8	32
111	Structured Assemblages of Single-Walled 3d Transition Metal Silicate Nanotubes as Precursors for Composition-Tailorable Catalysts. <i>Chemistry of Materials</i> , 2015 , 27, 658-667	9.6	32
110	A Hybrid Electrocatalyst with a Coordinatively Unsaturated Metal-Organic Framework Shell and Hollow NiS/NiS Core for Oxygen Evolution Reaction Applications. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 23180-23191	9.5	31

- 109 Lewis basicity generated by localised charge imbalance in noble metal nanoparticle-embedded defective metal-organic frameworks. *Nature Communications*, **2018**, 9, 4326 17.4 31
- 108 Architectural Designs and Synthetic Strategies of Advanced Nanocatalysts. *Advanced Materials*, **2018**, 30, e1802094 24 30
- 107 Fabrication and surface properties of composite films of SAM/Pt/ZnO/SiO₂. *Langmuir*, **2008**, 24, 14234-44 30
- 106 Synthesis of CoII CoIII₂-xAl_xO₄/Al₂O₃ Nanocomposites via Decomposition of CoII_{0.73}CoIII_{0.27}(OH)_{2.00}(NO₃)_{0.23}(CO₃)_{0.02}·5H₂O in a Sol-Gel-Derived Al₂O₃ Matrix. *Chemistry of Materials*, **2001**, 13, 4722-4730 9.6 30
- 105 A leed crystallographic analysis for the Cu(100)-(2 × 2)-S surface structure. *Surface Science*, **1986**, 177, 329-337 1.8 30
- 104 Template-free parallel one-dimensional assembly of gold nanoparticles. *Journal of Physical Chemistry B*, **2006**, 110, 16812-5 3.4 29
- 103 An alternative synthetic approach for macro-meso-microporous metal-organic frameworks via a "domain growth" mechanism. *Chemical Communications*, **2016**, 52, 8432-5 5.8 28
- 102 Nanocomposites of Anatase/Polyaniline Prepared via Self-Assembly. *Journal of Physical Chemistry C*, **2009**, 113, 8097-8106 3.8 28
- 101 Insertion and Removal of Protons in Single-Crystal Orthorhombic Molybdenum Trioxide under H₂S/H₂ and O₂/N₂. *Chemistry of Materials*, **2002**, 14, 1788-1796 9.6 28
- 100 Monoclinic ZrO₂ and its supported materials Co/Ni/ZrO₂ for N₂O decomposition. *Journal of Materials Research*, **1995**, 10, 545-552 2.5 28
- 99 Photochemistry of adsorbed molecules. Part 10. Harpooning a fixed target: charge transfer from Ag or K substrates to halide adsorbates. *Faraday Discussions of the Chemical Society*, **1991**, 91, 451-463 28
- 98 Hierarchical Nanocomposite by the Integration of Reduced Graphene Oxide and Amorphous Carbon with Ultrafine MgO Nanocrystallites for Enhanced CO Capture. *Environmental Science & Technology*, **2017**, 51, 12998-13007 10.3 27
- 97 Serial Ionic Exchange for the Synthesis of Multishelled Copper Sulfide Hollow Spheres. *Angewandte Chemie*, **2012**, 124, 973-976 3.6 27
- 96 Architectural Processes and Physicochemical Properties of CoO/ZnO and Zn_{1-x}Co_xO/Co_{1-y}Zn_yO Nanocomposites. *Journal of Physical Chemistry C*, **2009**, 113, 1373-1385 3.8 27
- 95 Surfactant-mediated self-assembly of Au nanoparticles and their related conversion to complex mesoporous structures. *Langmuir*, **2008**, 24, 3740-6 4 27
- 94 Reduction and reconstruction of Co₃O₄ nanocubes upon carbon deposition. *Journal of Physical Chemistry B*, **2005**, 109, 17113-9 3.4 27
- 93 Creation of Intestine-like Interior Space for Metal-Oxide Nanostructures with a Quasi-Reverse Emulsion. *Angewandte Chemie*, **2004**, 116, 5318-5321 3.6 26
- 92 General synthetic approach to heterostructured nanocrystals based on noble metals and I-VI, II-VI, and I-III-VI metal chalcogenides. *Langmuir*, **2014**, 30, 9838-49 4 25

91	Monodisperse Aluminosilicate Spheres with Tunable Al/Si Ratio and Hierarchical Macro-Meso-Microporous Structure. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 13578-89	9.5	25
90	Antisolvent Precipitation for the Synthesis of Monodisperse Mesoporous Niobium Oxide Spheres as Highly Effective Solid Acid Catalysts. <i>ChemCatChem</i> , 2012 , 4, 1675-1682	5.2	25
89	Synthesis of Co ₃ O ₄ Spinel at Ambient Conditions. <i>Journal of Materials Research</i> , 2000 , 15, 1250-1253	2.5	25
88	Rectangular vacancy island formation and self-depletion in Czochralski-grown PbMoO ₄ single crystal during heat treatment. <i>Journal of Crystal Growth</i> , 1996 , 160, 119-128	1.6	25
87	Preparation and integration of nanostructured titanium dioxide. <i>Current Opinion in Chemical Engineering</i> , 2011 , 1, 11-17	5.4	24
86	Insertion Direction of Hydrogen in Protonation of δ -MoO ₃ . <i>Journal of Physical Chemistry B</i> , 2001 , 105, 7178-7181	3.4	24
85	Surface and Textural Properties of Network-Modified Silica as a Function of Transition Metal Dopant Zirconium. <i>Journal of Physical Chemistry B</i> , 2001 , 105, 9093-9100	3.4	24
84	Hydrodynamic assembly of two-dimensional layered double hydroxide nanostructures. <i>Nature Communications</i> , 2018 , 9, 4913	17.4	24
83	MESOSCALE SPHERICAL AND PLANAR ORGANIZATIONS OF GOLD NANOPARTICLES. <i>Functional Materials Letters</i> , 2008 , 01, 43-53	1.2	23
82	Synthesis of stoichiometric lead molybdate PbMoO ₄ : An x-ray diffraction, Fourier transform infrared spectroscopy, and differential thermal analysis study. <i>Journal of Materials Research</i> , 1996 , 11, 703-715	2.5	23
81	Formation Combined with Intercalation of Ni and Its Alloy Nanoparticles within Mesoporous Silica for Robust Catalytic Reactions. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 29435-29447	9.5	22
80	Protein-assisted synthesis of double-shelled CaCO ₃ microcapsules and their mineralization with heavy metal ions. <i>Chemistry - A European Journal</i> , 2012 , 18, 1945-52	4.8	22
79	Decomposition of water-containing nitrous oxide gas using Ru/Al ₂ O ₃ catalysts. <i>Applied Catalysis B: Environmental</i> , 1998 , 17, 89-99	21.8	22
78	Lattice Strain Directed Synthesis of Anatase TiO ₂ Single-Crystal Microplatelet Arrays on δ -MoO ₃ (010) Template. <i>Journal of Physical Chemistry B</i> , 2004 , 108, 819-823	3.4	22
77	A new approach for design and synthesis of CoII and CoII,III hydroxide materials. <i>Solid State Sciences</i> , 2000 , 2, 187-196		22
76	N ₂ O decomposition over ZrO ₂ In situ DRIFT, TPR, TPD and XPS study. <i>Applied Surface Science</i> , 1996 , 103, 307-314	6.7	22
75	Rapid synthesis of highly monodisperse Au(x)Ag(1-x) alloy nanoparticles via a half-seeding approach. <i>Langmuir</i> , 2011 , 27, 5633-43	4	21
74	Retention behaviours of carbon-containing species in as-prepared, water-treated, and transition-metal-contaminated ZrO ₂ gels. <i>Journal of Non-Crystalline Solids</i> , 1995 , 185, 31-40	3.9	21

73	Bubble formation in Czochralski-grown lead molybdate crystals. <i>Journal of Crystal Growth</i> , 1996 , 167, 686-692	1.6	21
72	Self-Assembled Au/TiO ₂ /CNTs Ternary Nanocomposites for Photocatalytic Applications. <i>Science of Advanced Materials</i> , 2010 , 2, 503-513	2.3	21
71	Confirmation of Suzuki-Miyaura Cross-Coupling Reaction Mechanism through Synthetic Architecture of Nanocatalysts. <i>Journal of the American Chemical Society</i> , 2020 , 142, 13823-13832	16.4	21
70	Modification of Ammonia Decomposition Activity of Ruthenium Nanoparticles by N-Doping of CNT Supports. <i>Topics in Catalysis</i> , 2017 , 60, 1251-1259	2.3	20
69	Spontaneous Formations of Superlattices and Supracrystals from Various Forms of Mn ₃ O ₄ Nanocrystals. <i>Crystal Growth and Design</i> , 2012 , 12, 5561-5570	3.5	20
68	Generation of Double-Layer Steps on (010) Surface of Orthorhombic MoO ₃ via Chemical Etching at Room Temperature. <i>Journal of Physical Chemistry B</i> , 2000 , 104, 11891-11898	3.4	20
67	Topological Transformations of Core-Shell Precursors to Hierarchically Hollow Assemblages of Copper Silicate Nanotubes. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 37210-37218	9.5	18
66	Low-Dimensional Metal-Organic Frameworks and their Diverse Functional Roles in Catalysis. <i>ChemCatChem</i> , 2019 , 11, 3138-3165	5.2	18
65	Self-Aligned Growth of Hexagonal TiO ₂ Nanosphere Arrays on HMoO ₃ (010) Surface. <i>Chemistry of Materials</i> , 2003 , 15, 3113-3120	9.6	18
64	Metastability of tetragonal ZrO ₂ derived from Zr-n-propoxide-acetylacetone-water-isopropyl alcohol. <i>Journal of Materials Research</i> , 1998 , 13, 2174-2183	2.5	18
63	Synthesis of new nanocrystal-polymer nanocomposite as the electron acceptor in polymer bulk heterojunction solar cells. <i>European Polymer Journal</i> , 2010 , 46, 634-642	5.2	17
62	Trimetal atoms confined in openly accessible nitrogen-doped carbon constructs for an efficient ORR. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 17266-17275	13	17
61	Promoting Electrocatalytic Oxygen Evolution over Transition-Metal Phosphide-Based Nanocomposites via Architectural and Electronic Engineering. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 46825-46838	9.5	17
60	Smart Nanocatalysts with Streamline Shapes. <i>ACS Central Science</i> , 2017 , 3, 794-799	16.8	16
59	Surface Ni ²⁺ diffusion in sol-gel-derived tetragonal and monoclinic ZrO ₂ matrices. <i>Journal of Non-Crystalline Solids</i> , 1995 , 181, 49-57	3.9	16
58	Alumina-Supported Metal Catalysts inside a Mesoporous Aluminum-Silicate Shell: Nanoscale Reactors Prepared through the Transformation of MIL-96(Al) Nanocrystals. <i>ChemCatChem</i> , 2016 , 8, 12832-12837	5.2	14
57	Confined Transformation of UiO-66 Nanocrystals to Yttria-Stabilized Zirconia with Hierarchical Pore Structures for Catalytic Applications. <i>Advanced Functional Materials</i> , 2019 , 29, 1903264	15.6	14
56	Kinetic Study of Vapor-Phase Preparation of Orthorhombic Molybdenum Trioxide. <i>Chemistry of Materials</i> , 1998 , 10, 974-979	9.6	14

55	Pseudo-dendritic growth in lead molybdate single crystal by Czochralski technique. <i>Journal of Crystal Growth</i> , 1994 , 140, 148-156	1.6	14
54	Cool Copper Template for the Formation of Oriented Nanocrystalline β -Tantalum. <i>Journal of Physical Chemistry B</i> , 2002 , 106, 12366-12368	3.4	13
53	Kinetics of N ₂ O Decomposition on a RuO ₂ /Al ₂ O ₃ Catalyst. <i>Chemical Engineering Research and Design</i> , 1997 , 75, 807-812	5.5	12
52	Growth modes in vapour-phase prepared orthorhombic molybdenum trioxide crystals. <i>Journal of Crystal Growth</i> , 1999 , 197, 186-194	1.6	11
51	Memory effect of ZrO ₂ matrix on surface Co ₃ O ₄ /CoO transition. <i>Journal of Materials Research</i> , 1995 , 10, 3096-3105	2.5	11
50	Transition-Metal-Ions-Induced Coalescence: Stitching Au Nanoclusters into Tubular Au-Based Nanocomposites. <i>Small</i> , 2016 , 12, 2652-64	11	11
49	Design and Synthesis of Supported Nanoscale Metal-Organic Frameworks: Transformation from Transition Metal Silicates. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 14979-14988	8.3	11
48	Controllable integration of ultrasmall noble metal nanoparticles into mesoporous silica matrixes by a self-assembly method. <i>Chemical Communications</i> , 2018 , 54, 7030-7033	5.8	11
47	Adsorption and On-Site Transformation of Transition Metal Cations on Ni-Doped AlOOH Nanoflowers for OER Electrocatalysis. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 5953-5962	8.3	10
46	A Shell-by-Shell Approach for Synthesis of Mesoporous Multi-Shelled Hollow MOFs for Catalytic Applications. <i>Particle and Particle Systems Characterization</i> , 2020 , 37, 2000101	3.1	10
45	Cobalt (hcp) nanofibers with pine-tree-leaf hierarchical superstructures. <i>Journal of Materials Chemistry</i> , 2010 , 20, 9187		10
44	Scalable and precise synthesis of two-dimensional metal organic framework nanosheets in a high shear annular microreactor. <i>Chemical Engineering Journal</i> , 2020 , 388, 124133	14.7	9
43	Effect of ambient water on crystal morphology and coloration of lead molybdate. <i>Journal of Crystal Growth</i> , 1997 , 171, 493-500	1.6	9
42	Water-assisted reconstruction on ferroelectric domain ends of triglycine sulfate (NH ₂ CH ₂ COOH) ₃ H ₂ SO ₄ crystals. <i>Journal of Materials Chemistry</i> , 2000 , 10, 651-656		9
41	Formation Route of Carbon Nanotubes in a Gel Matrix. <i>Chemistry of Materials</i> , 2000 , 12, 3466-3471	9.6	9
40	Synthesis, Self-Assembly, Transformation, and Functionalization of Nanoscale Artificial Allophane Spherules for Catalytic Applications. <i>Chemistry of Materials</i> , 2017 , 29, 6076-6086	9.6	8
39	Kinetically Controlled Growth of Fine Gold Nanofractals from Au(I) via Indirect Galvanic Replacement Reaction. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 21552-61	9.5	8
38	The self-catalytic role of zirconium n-propoxide in sol-gel syntheses of ZrO ₂ /BiO ₂ mixed oxides. <i>Journal of Materials Chemistry</i> , 1999 , 9, 2647-2652		8

37	Diffusion of transition metals (Co,Ni) and its effects on sol-gel derived ZrO ₂ polymorphic stabilities. <i>Journal of Materials Chemistry</i> , 1996 , 6, 435-442		8
36	Transformation of Stober Silica Spheres to Hollow Nanocatalysts. <i>ChemNanoMat</i> , 2020 , 6, 889-906	3.5	8
35	Design of hollow spherical Co@hsZSM5@metal dual-layer nanocatalysts for tandem CO ₂ hydrogenation to increase C ₂ + hydrocarbon selectivity. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 12757-12766	13.7	7
34	Synthesis of Mesoporous Copper Aluminosilicate Hollow Spheres for Oxidation Reactions. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 23060-23075	9.5	7
33	Generating Isotropic Superparamagnetic Interconnectivity for the Two-Dimensional Organization of Nanostructured Building Blocks. <i>Angewandte Chemie</i> , 2006 , 118, 2779-2783	3.6	7
32	Hybrid OER Electrocatalyst Combining Mesoporous Hollow Spheres of N, P-Doped Carbon with Ultrafine CoNiO. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 50324-50332	9.5	7
31	Preparation of orthorhombic molybdenum trioxide crystals using a semi-open flux growth system. <i>Journal of Crystal Growth</i> , 1998 , 194, 195-202	1.6	6
30	Secondary ionic forces in lead molybdate melt solidification. <i>Journal of Materials Research</i> , 1998 , 13, 1426-1429	2.5	6
29	Purification growth of orthorhombic molybdenum trioxide crystals from alkali-metal-containing Mo-sources. <i>Journal of Crystal Growth</i> , 1999 , 203, 547-553	1.6	6
28	Two-level growth of potassium niobate KNbO ₃ single crystals: a new growth method for ABO ₃ -type materials. <i>Journal of Crystal Growth</i> , 1996 , 160, 296-304	1.6	6
27	Effects of meniscus on the directional growth of potassium niobate single crystals. <i>Journal of Crystal Growth</i> , 1996 , 160, 289-295	1.6	6
26	Three-Dimensional Hierarchical Multimetal-LDH Nanoflakes and Their Derived Spinel Oxides for Efficient Oxygen Evolution. <i>ACS Applied Energy Materials</i> , 2018 , 1, 4998-5007	6.1	6
25	Minimalization of Metallic Pd Formation in Suzuki Reaction with a Solid-State Organometallic Catalyst. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 33827-33837	9.5	5
24	Hierarchy Concepts in Design and Synthesis of Nanocatalysts. <i>ChemCatChem</i> , 2020 , 12, 5303-5311	5.2	5
23	Pt, Ir, Ru, and Rh Nanoparticles Supported on ZIF-67 Nanocubes for Evaluation of Hydrogen Spillover Ability of Noble Metals. <i>ACS Applied Nano Materials</i> , 2021 , 4, 6030-6044	5.6	5
22	Growth kinetic study of potassium niobate single crystal: a new method for high time-resolution kinetic data of ABO ₃ -type materials. <i>Journal of Crystal Growth</i> , 1997 , 173, 446-455	1.6	4
21	Versatile Hollow ZSM-5 Nanoreactors Loaded with Tailorable Metal Catalysts for Selective Hydrogenation Reactions. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 20524-20538	9.5	4
20	Pushing nanomaterials up to the kilogram scale: An accelerated approach for synthesizing antimicrobial ZnO with high shear reactors, machine learning and high-throughput analysis. <i>Chemical Engineering Journal</i> , 2021 , 426, 131345	14.7	4

19	A direct method for ultrafine gold networks with nanometre scale ligaments. <i>International Journal of Nanotechnology</i> , 2011 , 8, 816	1.5	3
18	Via Resistance Reduction using ToolPVD-Ta Processing. <i>Journal of the Electrochemical Society</i> , 2003 , 150, G766	3.9	3
17	Surface reconstruction in TGS family crystals under humidity and temperature controls. <i>Materials Research Innovations</i> , 1999 , 2, 289-298	1.9	3
16	Antisolvent Route to Ultrathin Hollow Spheres of Cerium Oxide for Enhanced CO Oxidation. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 20501-20510	9.5	3
15	Nanotechnology for emerging applications. <i>Current Opinion in Chemical Engineering</i> , 2012 , 1, 89-90	5.4	2
14	Effect of nanostructured supports on catalytic methane decomposition. <i>Pure and Applied Chemistry</i> , 2000 , 72, 327-331	2.1	2
13	Revamping SiO ₂ Spheres by Core-Shell Porosity Endowment to Construct a Mazelike Nanoreactor for Enhanced Catalysis in CO ₂ Hydrogenation to Methanol. <i>Advanced Functional Materials</i> , 2021 , 31, 2102896	15.6	2
12	Nanowire Networks of Metal-Organosilicates as Reversible Pd(II) Reservoirs for Suzuki Coupling Reactions. <i>ACS Applied Nano Materials</i> ,	5.6	2
11	Self-Assembly: Calcium Carbonate Nanotablets: Bridging Artificial to Natural Nacre (Adv. Mater. 47/2012). <i>Advanced Materials</i> , 2012 , 24, 6252-6252	24	1
10	Catalytic decomposition of high-concentration nitrous oxide N ₂ O. <i>Studies in Surface Science and Catalysis</i> , 1998 , 485-494	1.8	1
9	Revamping SiO ₂ Spheres by Core-Shell Porosity Endowment to Construct a Mazelike Nanoreactor for Enhanced Catalysis in CO ₂ Hydrogenation to Methanol (Adv. Funct. Mater. 47/2021). <i>Advanced Functional Materials</i> , 2021 , 31, 2170345	15.6	1
8	Assembly of Two-Dimensional Metal Organic Framework Superstructures via Solvent-Mediated Oriented Attachment. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 22837-22847	3.8	1
7	Mesoporous Silica Encapsulated Metal-Organic Frameworks for Heterogeneous Catalysis. <i>Matter</i> , 2020 , 3, 332-334	12.7	1
6	TiO ₂ /C tetragons with a double-side concave nanostructure and its high rate performance on Na-ion storage. <i>Applied Surface Science</i> , 2021 , 567, 150756	6.7	1
5	Strong coke-resistivity of spherical hollow Ni/SiO ₂ catalysts with shell-confined high-content Ni nanoparticles for methane dry reforming with CO ₂ . <i>Applied Catalysis B: Environmental</i> , 2022 , 310, 121360	21.8	1
4	Single Solid Precursor-Derived Three-Dimensional Nanowire Networks of CuZn-Silicate for CO ₂ Hydrogenation to Methanol. <i>ACS Catalysis</i> , 2021 , 11, 5750-5765	13.1	1
3	Synthetic Architecture of Inorganic Nanomaterials 2006 , 25-56		
2	Kinetics of chain reactions between organochromium macrocyclic complexes and iodine. <i>Journal of Organometallic Chemistry</i> , 1994 , 484, 59-65	2.3	

- 1 Nanostructured Catalysts **2008**, 2974-2985