Hua Chun Zeng

List of Publications by Year
in descending order

254 papers	24,671 citations	6592 79 h-index	7718 150 g-index
267 all docs	267 docs citations	267 times ranked	23089 citing authors

#	Article	IF	Citations
1	Hydrothermal Synthesis of ZnO Nanorods in the Diameter Regime of 50 nm. Journal of the American Chemical Society, 2003, 125, 4430-4431.	6.6	1,323
2	Preparation of Hollow Anatase TiO2Nanospheres via Ostwald Ripening. Journal of Physical Chemistry B, 2004, 108, 3492-3495.	1.2	940
3	Mesoscale Organization of CuO Nanoribbons:â€‰ Formation of â€œDandelionsâ€• Journal of the American Chemical Society, 2004, 126, 8124-8125.	6.6	800
4	Symmetric and Asymmetric Ostwald Ripening in the Fabrication of Homogeneous Core-Shell Semiconductors. Small, 2005, 1, 566-571.	5.2	604
5	Mesoporous Co₃O₄ and CoO@C Topotactically Transformed from Chrysanthemumâ€like Co(CO₃)_{0.5}(OH)Â·0.11H₂O and Their Lithiumâ€Storage Properties. Advanced Functional Materials, 2012, 22, 861-871.	7.8	554
6	Fabrication of ZnO â€œDandelionsâ€•via a Modified Kirkendall Process. Journal of the American Chemical Society, 2004, 126, 16744-16746.	6.6	539
7	Hollowing Sn-Doped TiO₂ Nanospheres via Ostwald Ripening. Journal of the American Chemical Society, 2007, 129, 15839-15847.	6.6	527
8	Highly Reversible Lithium Storage in Porous SnO2 Nanotubes with Coaxially Grown Carbon Nanotube Overlayers. Advanced Materials, 2006, 18, 645-649.	11.1	477
9	Formation of Colloidal CuO Nanocrystallites and Their Spherical Aggregation and Reductive Transformation to Hollow Cu2O Nanospheres. Langmuir, 2005, 21, 1074-1079.	1.6	464
10	Synthetic architecture of interior space for inorganic nanostructures. Journal of Materials Chemistry, 2006, 16, 649-662.	6.7	457
11	Large-Scale Synthesis of High-Quality Ultralong Copper Nanowires. Langmuir, 2005, 21, 3746-3748.	1.6	445
12	Polycrystalline SnO2 Nanotubes Prepared via Infiltration Casting of Nanocrystallites and Their Electrochemical Application. Chemistry of Materials, 2005, 17, 3899-3903.	3.2	430
13	Self-Construction of Hollow SnO2 Octahedra Based on Two-Dimensional Aggregation of Nanocrystallites. Angewandte Chemie - International Edition, 2004, 43, 5930-5933.	7.2	429
14	Fabrications of Hollow Nanocubes of Cu2O and Cu via Reductive Self-Assembly of CuO Nanocrystals. Langmuir, 2006, 22, 7369-7377.	1.6	406
15	Preparation of Nanocomposites of Metals, Metal Oxides, and Carbon Nanotubes via Self-Assembly. Journal of the American Chemical Society, 2007, 129, 9401-9409.	6.6	353
16	Hydrothermal Synthesis of Î±-MoO3 Nanorods via Acidification of Ammonium Heptamolybdate Tetrahydrate. Chemistry of Materials, 2002, 14, 4781-4789.	3.2	342
17	Synthesis, Morphological Control, and Antibacterial Properties of Hollow/Solid Ag₂S/Ag Heterodimers. Journal of the American Chemical Society, 2010, 132, 10771-10785.	6.6	334
18	Ostwald Ripening: A Synthetic Approach for Hollow Nanomaterials. Current Nanoscience, 2007, 3, 177-181.	0.7	322

#	Article	IF	Citations
19	Abrupt Structural Transformation in Hydrotalcite-like Compounds Mg1-xAlx(OH)2(NO3)xÂ·nH2O as a Continuous Function of Nitrate Anions. Journal of Physical Chemistry B, 2001, 105, 1743-1749.	1.2	293
20	Room Temperature Solution Synthesis of Monodispersed Single-Crystalline ZnO Nanorods and Derived Hierarchical Nanostructures. Langmuir, 2004, 20, 4196-4204.	1.6	283
21	Synthesis of complex nanomaterials via Ostwald ripening. Journal of Materials Chemistry A, 2014, 2, 4843-4851.	5.2	280
22	Dimensional Control of Cobalt-hydroxide-carbonate Nanorods and Their Thermal Conversion to One-Dimensional Arrays of Co3O4Nanoparticles. Journal of Physical Chemistry B, 2003, 107, 12643-12649.	1.2	277
23	CO2 Reforming of Methane to Synthesis Gas over Solâ€“Gel-made Ni/Î³-Al2O3 Catalysts from Organometallic Precursors. Journal of Catalysis, 2000, 194, 424-430.	3.1	267
24	Synthesis and Integration of Fe-soc-MOF Cubes into Colloidosomes via a Single-Step Emulsion-Based Approach. Journal of the American Chemical Society, 2013, 135, 10234-10237.	6.6	267
25	Size-Controlled Growth of Co3O4Nanocubes. Chemistry of Materials, 2003, 15, 2829-2835.	3.2	265
26	Controlled Synthesis and Self-Assembly of Single-Crystalline CuO Nanorods and Nanoribbons. Crystal Growth and Design, 2004, 4, 397-402.	1.4	253
27	Synthesis of Single-Crystalline TiO2Nanotubes. Chemistry of Materials, 2002, 14, 1391-1397.	3.2	251
28	Synthesis, Self-Assembly, Disassembly, and Reassembly of Two Types of Cu₂O Nanocrystals Unifaceted with {001} or {110} Planes. Journal of the American Chemical Society, 2010, 132, 6131-6144.	6.6	251
29	Self-Generation of Tiered Surfactant Superstructures for One-Pot Synthesis of Co3O4Nanocubes and Their Close- and Non-Close-Packed Organizations. Langmuir, 2004, 20, 9780-9790.	1.6	246
30	Size Tuning, Functionalization, and Reactivation of Au in TiO2 Nanoreactors. Angewandte Chemie - International Edition, 2005, 44, 4342-4345.	7.2	237
31	Synthesis and Functionalization of Oriented Metalâ€“Organicâ€Framework Nanosheets: Toward a Series of 2D Catalysts. Advanced Functional Materials, 2016, 26, 3268-3281.	7.8	227
32	Complex Î±-MoO3Nanostructures with External Bonding Capacity for Self-Assembly. Journal of the American Chemical Society, 2003, 125, 2697-2704.	6.6	203
33	Metalâˆ'Support Interactions in Co/Al2O3 Catalysts:â€‰ A Comparative Study on Reactivity of Support. Journal of Physical Chemistry B, 2000, 104, 1783-1790.	1.2	201
34	Arresting Butterfly-Like Intermediate Nanocrystals of Î²-Co(OH)2via Ethylenediamine-Mediated Synthesis. Journal of the American Chemical Society, 2002, 124, 6668-6675.	6.6	196
35	Morphogenesis of Highly Uniform CoCO₃ Submicrometer Crystals and Their Conversion to Mesoporous Co₃O₄ for Gas-Sensing Applications. Chemistry of Materials, 2009, 21, 4984-4992.	3.2	194
36	Carbon Nanotubes Supported Mesoporous Mesocrystals of Anatase TiO2. Chemistry of Materials, 2008, 20, 2711-2718.	3.2	188

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37	Serial Ionic Exchange for the Synthesis of Multishelled Copper Sulfide Hollow Spheres. Angewandte Chemie - International Edition, 2012, 51, 949-952.	7.2	182
38	Creation of Intestine-like Interior Space for Metal-Oxide Nanostructures with a Quasi-Reverse Emulsion. Angewandte Chemie - International Edition, 2004, 43, 5206-5209.	7.2	180
39	Manipulative Synthesis of Multipod Frameworks for Self-Organization and Self-Amplification of Cu2O Microcrystals. Crystal Growth and Design, 2004, 4, 273-278.	1.4	176
40	Synthetic Architectures of TiO2/H2Ti5O11Â·H2O, ZnO/H2Ti5O11Â·H2O, ZnO/TiO2/H2Ti5O11Â·H2O, and ZnO/TiO2Nanocomposites. Journal of the American Chemical Society, 2005, 127, 270-278.	6.6	166
41	Armored MOFs: Enforcing Soft Microporous MOF Nanocrystals with Hard Mesoporous Silica. Journal of the American Chemical Society, 2014, 136, 5631-5639.	6.6	157
42	Self-Assembled Hollow Spheres of Î²-Ni(OH)₂ and Their Derived Nanomaterials. Chemistry of Materials, 2009, 21, 871-883.	3.2	152
43	Self-cleaning and antireflective packaging glass for solar modules. Renewable Energy, 2011, 36, 2489-2493.	4.3	151
44	Mechanistic Investigation on Salt-Mediated Formation of Free-Standing Co3O4Nanocubes at 95 Â°C. Journal of Physical Chemistry B, 2003, 107, 926-930.	1.2	150
45	Thermal evolution of cobalt hydroxides: a comparative study of their various structural phases. Journal of Materials Chemistry, 1998, 8, 2499-2506.	6.7	149
46	Synthesis and self-assembly of complex hollow materials. Journal of Materials Chemistry, 2011, 21, 7511.	6.7	138
47	Highly Monodisperse M^{III}-Based soc-MOFs (M = In and Ga) with Cubic and Truncated Cubic Morphologies. Journal of the American Chemical Society, 2012, 134, 13176-13179.	6.6	138
48	Preparation of Monodisperse Au/TiO2Nanocatalysts via Self-Assembly. Chemistry of Materials, 2006, 18, 4270-4277.	3.2	134
49	Integrated Nanocatalysts. Accounts of Chemical Research, 2013, 46, 226-235.	7.6	127
50	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.	3.2	126
51	ZIF-67-Derived Nanoreactors for Controlling Product Selectivity in CO₂ Hydrogenation. ACS Catalysis, 2017, 7, 7509-7519.	5.5	124
52	Semiconductor Rings Fabricated by Self-Assembly of Nanocrystals. Journal of the American Chemical Society, 2005, 127, 18262-18268.	6.6	121
53	ZnO/PVP Nanocomposite Spheres with Two Hemispheres. Journal of Physical Chemistry C, 2007, 111, 13301-13308.	1.5	120
54	Hydrogen spillover through Matryoshka-type (ZIFs@)nâˆ’1ZIFs nanocubes. Nature Communications, 2018, 9, 3778.	5.8	120

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55	Decomposition Pathways of Hydrotalcite-like Compounds Mg1-xAlx(OH)2(NO3)xÂ·nH2O as a Continuous Function of Nitrate Anions. Chemistry of Materials, 2001, 13, 4564-4572.	3.2	118
56	Low-Temperature Synthesis of MgxCo1-xCo2O4Spinel Catalysts for N2O Decomposition. Chemistry of Materials, 2000, 12, 650-658.	3.2	117
57	Targeted Synthesis of Silicomolybdic Acid (Keggin Acid) inside Mesoporous Silica Hollow Spheres for Friedelâ€“Crafts Alkylation. Journal of the American Chemical Society, 2012, 134, 16235-16246.	6.6	116
58	Multifunctional Roles of TiO₂ Nanoparticles for Architecture of Complex Coreâˆ'Shells and Hollow Spheres of SiO₂âˆ'TiO₂âˆ'Polyaniline System. Chemistry of Materials, 2009, 21, 4811-4823.	3.2	114
59	Salt-Assisted Deposition of SnO2 on Î±-MoO3 Nanorods and Fabrication of Polycrystalline SnO2 Nanotubes. Journal of Physical Chemistry B, 2004, 108, 5867-5874.	1.2	111
60	An Inorganic Route for Controlled Synthesis of W18O49Nanorods and Nanofibers in Solution. Inorganic Chemistry, 2003, 42, 6169-6171.	1.9	110
61	Synthesis of High-Surface-Area Alumina Using Aluminum Tri-sec-butoxideâˆ'2,4-Pentanedioneâˆ' 2-Propanolâˆ'Nitric Acid Precursors. Chemistry of Materials, 2000, 12, 931-939.	3.2	105
62	Integrated nanocatalysts with mesoporous silica/silicate and microporous MOF materials. Coordination Chemistry Reviews, 2016, 320-321, 181-192.	9.5	105
63	Architecture and Preparation of Hollow Catalytic Devices. Advanced Materials, 2019, 31, e1801104.	11.1	105
64	A catalyst-free approach for solâ€“gel synthesis of highly mixed ZrO2â€“SiO2 oxides. Journal of Non-Crystalline Solids, 1999, 243, 26-38.	1.5	104
65	Highly Ordered Self-Assemblies of Submicrometer Cu₂O Spheres and Their Hollow Chalcogenide Derivatives. Langmuir, 2010, 26, 5963-5970.	1.6	100
66	Low-energy electron-diffraction crystallographic determination for the Cu(110)2Ã—1-O surface structure. Physical Review B, 1990, 41, 5432-5435.	1.1	99
67	Hollow ZnO Microspheres with Complex Nanobuilding Units. Chemistry of Materials, 2007, 19, 5824-5826.	3.2	98
68	Bimetallic Niâ€“Fe phosphide nanocomposites with a controlled architecture and composition enabling highly efficient electrochemical water oxidation. Journal of Materials Chemistry A, 2018, 6, 2231-2238.	5.2	97
69	Mechanistic Investigation on Self-redox Decompositions of Cobaltâˆ'Hydroxideâˆ'Nitrate Compounds with Different Nitrate Anion Configurations in Interlayer Space. Chemistry of Materials, 2003, 15, 2040-2048.	3.2	95
70	TiO₂ Thin Films Prepared via Adsorptive Self-Assembly for Self-Cleaning Applications. ACS Applied Materials & Interfaces, 2012, 4, 1093-1102.	4.0	92
71	Self-templating synthesis of hollow spheres of MOFs and their derived nanostructures. Chemical Communications, 2016, 52, 11591-11594.	2.2	89
72	Integrated Networks of Mesoporous Silica Nanowires and Their Bifunctional Catalysisâ€“Sorption Application for Oxidative Desulfurization. ACS Catalysis, 2014, 4, 566-576.	5.5	87

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73	Sandwichâ€Like Nanocomposite of CoNiO<i>_x</i>/Reduced Graphene Oxide for Enhanced Electrocatalytic Water Oxidation. Advanced Functional Materials, 2017, 27, 1606325.	7.8	87
74	Decomposition Processes of Organic-Anion-Pillared Clays CoaMgbAl(OH)c(TA)dÂ·nH2O. Journal of Physical Chemistry B, 2000, 104, 10206-10214.	1.2	84
75	Creation of Interior Space, Architecture of Shell Structure, and Encapsulation of Functional Materials for Mesoporous SiO₂ Spheres. Chemistry of Materials, 2011, 23, 4886-4899.	3.2	84
76	Synthetic Architecture of Multiple Coreâ€"Shell and Yolkâ€"Shell Structures of (Cu₂O@)_{<i>n</i>}Cu₂O (<i>n</i> = 1â€"4) with Centricity and Eccentricity. Chemistry of Materials, 2012, 24, 1917-1929.	3.2	81
77	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.	1.1	80
78	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.	2.0	80
79	Control of Surface Area and Porosity of Co3O4via Intercalation of Oxidative or Nonoxidative Anions in Hydrotalcite-like Precursors. Chemistry of Materials, 2000, 12, 3459-3465.	3.2	79
80	Nanobubbles within a Microbubble: Synthesis and Self-Assembly of Hollow Manganese Silicate and Its Metal-Doped Derivatives. ACS Nano, 2014, 8, 6407-6416.	7.3	78
81	Simultaneous Synthesis and Assembly of Noble Metal Nanoclusters with Variable Micellar Templates. Journal of the American Chemical Society, 2014, 136, 13805-13817.	6.6	77
82	Alternative synthetic approaches for metalâ€"organic frameworks: transformation from solid matters. Chemical Communications, 2017, 53, 72-81.	2.2	77
83	Chemical Etching of Molybdenum Trioxide:Â A New Tailor-Made Synthesis of MoO3Catalysts. Inorganic Chemistry, 1998, 37, 1967-1973.	1.9	72
84	3D Networks of CoFePi with Hierarchical Porosity for Effective OER Electrocatalysis. Small, 2018, 14, e1704403.	5.2	72
85	Direct growth of enclosed ZnO nanotubes. Nano Research, 2009, 2, 201-209.	5.8	71
86	Highâ€Temperature Carbon Monoxide Potentiometric Sensor. Journal of the Electrochemical Society, 1993, 140, 1068-1073.	1.3	68
87	Calcium Carbonate Nanotablets: Bridging Artificial to Natural Nacre. Advanced Materials, 2012, 24, 6277-6282.	11.1	68
88	A General Synthetic Approach for Integrated Nanocatalysts of Metal-Silica@ZIFs. Chemistry of Materials, 2016, 28, 326-336.	3.2	67
89	CoHPi Nanoflakes for Enhanced Oxygen Evolution Reaction. ACS Applied Materials & Interfaces, 2018, 10, 6288-6298.	4.0	67
90	Further LEED investigations of missing row models for the surface structure. Surface Science, 1990, 239, L571-L578.	0.8	66

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91	Synthetic Chemistry and Multifunctionality of an Amorphous Ni-MOF-74 Shell on a Ni/SiO₂ Hollow Catalyst for Efficient Tandem Reactions. Chemistry of Materials, 2019, 31, 5320-5330.	3.2	66
92	Synthesis of Lithium Niobate Gels Using a Metal Alkoxideâˆ'Metal Nitrate Precursor. Chemistry of Materials, 1996, 8, 2667-2672.	3.2	63
93	A leed crystallographic analysis for the Cu(100)c(2Ã—2)-N surface structure. Surface Science, 1987, 188, 599-608.	0.8	62
94	Deposition Method for Preparing SERS-Active Gold Nanoparticle Substrates. Analytical Chemistry, 2005, 77, 7462-7471.	3.2	62
95	Site-specific growth of Au particles on ZnO nanopyramids under ultraviolet illumination. Nanoscale, 2011, 3, 4195.	2.8	61
96	Ag nanoprisms with Ag2S attachment. Scientific Reports, 2013, 3, 2177.	1.6	61
97	A Synthetic Protocol for Preparation of Binary Multi-shelled Hollow Spheres and Their Enhanced Oxidation Application. Chemistry of Materials, 2017, 29, 10104-10112.	3.2	60
98	Constrained Growth of MoS₂ Nanosheets within a Mesoporous Silica Shell and Its Effects on Defect Sites and Catalyst Stability for H₂S Decomposition. ACS Catalysis, 2018, 8, 714-724.	5.5	58
99	Control of Nucleation in Solution Growth of Anatase TiO2on Glass Substrate. Journal of Physical Chemistry B, 2003, 107, 12244-12255.	1.2	57
100	Immobilization of Metalâ€"Organic Framework Nanocrystals for Advanced Design of Supported Nanocatalysts. ACS Applied Materials & Interfaces, 2016, 8, 29551-29564.	4.0	57
101	Synthetic Architecture of MgO/C Nanocomposite from Hierarchical-Structured Coordination Polymer toward Enhanced CO₂ Capture. ACS Applied Materials & Interfaces, 2017, 9, 9592-9602.	4.0	57
102	Defect Creation in HKUSTâ€1 via Molecular Imprinting: Attaining Anionic Framework Property and Mesoporosity for Cation Exchange Applications. Advanced Functional Materials, 2017, 27, 1703765.	7.8	57
103	Catalytic decomposition of nitrous oxide on alumina-supported ruthenium catalysts Ru/Al2O3. Applied Catalysis B: Environmental, 1997, 13, 113-122.	10.8	56
104	Synthesis of Nanosize Supported Hydrotalcite-like Compounds CoAlx(OH)2+2x(CO3)y(NO3)x-2yÂ·nH2O on Î3-Al2O3. Chemistry of Materials, 2001, 13, 297-303.	3.2	56
105	Synthesis and characterization of Mgâ€"Co catalytic oxide materials forlow-temperature N2O decomposition. Journal of Materials Chemistry, 1997, 7, 493-499.	6.7	55
106	Synthesis of Non-Al-Containing Hydrotalcite-like Compound Mg0.3CoII0.6CoIII0.2(OH)2(NO3)0.2Â·H2O. Chemistry of Materials, 1998, 10, 2277-2283.	3.2	55
107	Symmetric Linear Assembly of Hourglass-like ZnO Nanostructures. Journal of Physical Chemistry C, 2007, 111, 2032-2039.	1.5	55
108	Preparation of a Ruâ€Nanoparticles/Defectiveâ€Graphene Composite as a Highly Efficient Areneâ€Hydrogenation Catalyst. ChemCatChem, 2012, 4, 1938-1942.	1.8	55

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109	Solution-Based Epitaxial Growth of Magnetically Responsive Cu@Ni Nanowires. Chemistry of Materials, 2010, 22, 1282-1284.	3.2	54
110	Advanced oxygen evolution catalysis by bimetallic Niâ€“Fe phosphide nanoparticles encapsulated in nitrogen, phosphorus, and sulphur tri-doped porous carbon. Chemical Communications, 2017, 53, 6025-6028.	2.2	54
111	Silica nanowires encapsulated Ru nanoparticles as stable nanocatalysts for selective hydrogenation of CO2 to CO. Applied Catalysis B: Environmental, 2017, 219, 580-591.	10.8	54
112	Generating Isotropic Superparamagnetic Interconnectivity for the Two-Dimensional Organization of Nanostructured Building Blocks. Angewandte Chemie - International Edition, 2006, 45, 2713-2717.	7.2	50
113	Asymmetric ZnO Nanostructures with an Interior Cavity. Journal of Physical Chemistry B, 2006, 110, 14736-14743.	1.2	49
114	Charge-Switchable Integrated Nanocatalysts for Substrate-Selective Degradation in Advanced Oxidation Processes. Chemistry of Materials, 2016, 28, 4572-4582.	3.2	49
115	Ionic Interactions in Crystallite Growth of CoMgAl-hydrotalcite-like Compounds. Chemistry of Materials, 2001, 13, 4555-4563.	3.2	48
116	Confirmation of Suzukiâ€“Miyaura Cross-Coupling Reaction Mechanism through Synthetic Architecture of Nanocatalysts. Journal of the American Chemical Society, 2020, 142, 13823-13832.	6.6	48
117	Metalâ€“Hydroxide and Goldâ€“Nanocluster Interfaces: Enhancing Catalyst Activity and Stability for Oxygen Evolution Reaction. Journal of Physical Chemistry C, 2016, 120, 29348-29357.	1.5	47
118	Transformation of StÃ¶ber Silica Spheres to Hollow Hierarchical Single-Crystal ZSM-5 Zeolites with Encapsulated Metal Nanocatalysts for Selective Catalysis. ACS Applied Materials & Interfaces, 2019, 11, 14774-14785.	4.0	47
119	Preparation of Mo-Embedded Mesoporous Carbon Microspheres for Friedelâ€“Crafts Alkylation. Journal of Physical Chemistry C, 2012, 116, 7767-7775.	1.5	46
120	Lewis basicity generated by localised charge imbalance in noble metal nanoparticle-embedded defective metalâ€“organic frameworks. Nature Communications, 2018, 9, 4326.	5.8	46
121	Investigation with low-energy electron diffraction of the adsorbate-induced metal relaxations in the Cu(100)-(2Ã—2)-S surface structure. Physical Review B, 1989, 39, 8000-8002.	1.1	44
122	Oriented attachment: a versatile approach for construction of nanomaterials. International Journal of Nanotechnology, 2007, 4, 329.	0.1	44
123	Mesoporous Niobium Oxide Spheres as an Effective Catalyst for the Transamidation of Primary Amides with Amines. Advanced Synthesis and Catalysis, 2014, 356, 475-484.	2.1	44
124	Large-Scale Organizations of MoO3Nanoplatelets with Single-Crystalline MoO3(4,4â€˜-bipyridyl)0.5. Journal of Physical Chemistry B, 2003, 107, 2619-2622.	1.2	43
125	Selfâ€Generated Etchant for Synthetic Sculpturing of Cu₂Oâ€Au, Cu₂O@Au, Au/Cu₂O, and 3Dâ€Au Nanostructures. Chemistry - A European Journal, 2012, 18, 14605-14609.	1.7	43
126	Structured Assemblages of Single-Walled 3d Transition Metal Silicate Nanotubes as Precursors for Composition-Tailorable Catalysts. Chemistry of Materials, 2015, 27, 658-667.	3.2	43

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127	Correlation of PbMoO4 crystal imperfections to Czochralski growth process. Journal of Crystal Growth, 1997, 171, 136-145.	0.7	42
128	Hierarchical Nanocomposite by the Integration of Reduced Graphene Oxide and Amorphous Carbon with Ultrafine MgO Nanocrystallites for Enhanced CO₂ Capture. Environmental Science & Technology, 2017, 51, 12998-13007.	4.6	42
129	A Hybrid Electrocatalyst with a Coordinatively Unsaturated Metalâ€“Organic Framework Shell and Hollow Ni₃S₂/NiS Core for Oxygen Evolution Reaction Applications. ACS Applied Materials & Interfaces, 2019, 11, 23180-23191.	4.0	42
130	Crystallization and glass formation in 50Li2OÂ·50Nb2O5 and 25Li2OÂ·25Nb2O5Â·50SiO2. Journal of Non-Crystalline Solids, 1997, 209, 112-121.	1.5	41
131	Vapour phase growth of orthorhombic molybdenum trioxide crystals at normal pressure of purified air. Journal of Crystal Growth, 1998, 186, 393-402.	0.7	41
132	In-Situ Generation of Maximum Trivalent Cobalt in Synthesis of Hydrotalcite-like Compounds MgxCoII1-x-yCoIIIy(OH)2(NO3)yÂ·nH2O. Chemistry of Materials, 2000, 12, 2597-2603.	3.2	41
133	Simultaneous Chemical Modification and Structural Transformation of StÃ¶ber Silica Spheres for Integration of Nanocatalysts. Chemistry of Materials, 2012, 24, 140-148.	3.2	41
134	Ultrafine Alloy Nanoparticles Converted from 2D Intercalated Coordination Polymers for Catalytic Application. Advanced Functional Materials, 2016, 26, 5658-5668.	7.8	41
135	Architectural Designs and Synthetic Strategies of Advanced Nanocatalysts. Advanced Materials, 2018, 30, e1802094.	11.1	41
136	Sulfidation of Single Molecular Sheets of MoO3Pillared by Bipyridine in Nanohybrid MoO3(4,4â€²-bipyridyl)0.5. Chemistry of Materials, 2003, 15, 433-442.	3.2	40
137	Gold Sponges Prepared via Hydrothermally Activated Self-Assembly of Au Nanoparticles. Journal of Physical Chemistry C, 2007, 111, 6970-6975.	1.5	40
138	Gold(I)â€“Alkanethiolate Nanotubes. Advanced Materials, 2009, 21, 4962-4965.	11.1	40
139	Formation Combined with Intercalation of Ni and Its Alloy Nanoparticles within Mesoporous Silica for Robust Catalytic Reactions. ACS Applied Materials & Interfaces, 2018, 10, 29435-29447.	4.0	39
140	General Strategy for Preparation of Carbon-Nanotube-Supported Nanocatalysts with Hollow Cavities and Mesoporous Shells. Chemistry of Materials, 2015, 27, 726-734.	3.2	38
141	Hydrodynamic assembly of two-dimensional layered double hydroxide nanostructures. Nature Communications, 2018, 9, 4913.	5.8	38
142	What determines the structures formed by oxygen at low index surfaces of copper?. Progress in Surface Science, 1995, 50, 247-257.	3.8	37
143	Sulfate-Functionalized Carbon/Metal-Oxide Nanocomposites from Hydrotalcite-like Compounds. Nano Letters, 2001, 1, 703-706.	4.5	37
144	Thermal Processes of Volatile RuO2in Nanocrystalline Al2O3Matrixes Involving Î³â†’Î± Phase Transformation. Chemistry of Materials, 2001, 13, 2403-2412.	3.2	36

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145	Mesoporous Bubbleâ€like Manganese Silicate as a Versatile Platform for Design and Synthesis of Nanostructured Catalysts. Chemistry - A European Journal, 2015, 21, 1882-1887.	1.7	36
146	Modification of Ammonia Decomposition Activity of Ruthenium Nanoparticles by N-Doping of CNT Supports. Topics in Catalysis, 2017, 60, 1251-1259.	1.3	36
147	Coordination Chemistry and Antisolvent Strategy to Rare-Earth Solid Solution Colloidal Spheres. Journal of the American Chemical Society, 2012, 134, 19084-19091.	6.6	35
148	Strong coke-resistivity of spherical hollow Ni/SiO2 catalysts with shell-confined high-content Ni nanoparticles for methane dry reforming with CO2. Applied Catalysis B: Environmental, 2022, 310, 121360.	10.8	35
149	A further LEED study for the surface structure designated copper(100)-c(2 .times. 2)-nitrogen. Langmuir, 1989, 5, 829-833.	1.6	34
150	Photochemistry of adsorbed molecules. Part 10.â€"Harpooning a fixed target: charge transfer from Ag or K substrates to halide adsorbates. Faraday Discussions of the Chemical Society, 1991, 91, 451-463.	2.2	34
151	An alternative synthetic approach for macroâ€"mesoâ€"microporous metalâ€"organic frameworks via a â€œdomain growthâ€• mechanism. Chemical Communications, 2016, 52, 8432-8435.	2.2	34
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