

Michael Z Hu

List of Publications by Year in descending order

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59
papers

2,056
citations

279798

23
h-index

254184

43
g-index

63
all docs

63
docs citations

63
times ranked

3135
citing authors

#	ARTICLE	IF	CITATIONS
1	Template-removal-associated microstructural development of porous-ceramic-supported MFI zeolite membranes. <i>Microporous and Mesoporous Materials</i> , 2000, 34, 241-253.	4.4	230
2	Semiconductor Nanocrystals-Based White Light-Emitting Diodes. <i>Small</i> , 2010, 6, 1577-1588.	10.0	225
3	Biosorption of uranium by <i>Pseudomonas aeruginosa</i> strain CSU: Characterization and comparison studies. , 1996, 51, 237-247.		138
4	Nucleation and Growth for Synthesis of Nanometric Zirconia Particles by Forced Hydrolysis. <i>Journal of Colloid and Interface Science</i> , 1998, 198, 87-99.	9.4	115
5	Recent progress in enhancing solar-to-hydrogen efficiency. <i>Journal of Power Sources</i> , 2015, 280, 649-666.	7.8	112
6	Biosorption of Uranium by <i>Pseudomonas aeruginosa</i> Strain CSU Immobilized in a Novel Matrix. <i>Biotechnology Progress</i> , 1997, 13, 60-70.	2.6	103
7	Wet-chemical synthesis of monodispersed barium titanate particles – hydrothermal conversion of TiO ₂ microspheres to nanocrystalline BaTiO ₃ . <i>Powder Technology</i> , 2000, 110, 2-14.	4.2	101
8	Photoluminescent Colloidal CdS Nanocrystals with High Quality via Noninjection One-Pot Synthesis in 1-Octadecene. <i>Journal of Physical Chemistry C</i> , 2009, 113, 7579-7593.	3.1	75
9	Sol-Gel and Ultrafine Particle Formation via Dielectric Tuning of Inorganic Salt-Alcohol-Water Solutions. <i>Journal of Colloid and Interface Science</i> , 2000, 222, 20-36.	9.4	73
10	Semiconductor Nanocrystal Quantum Dot Synthesis Approaches Towards Large-Scale Industrial Production for Energy Applications. <i>Nanoscale Research Letters</i> , 2015, 10, 469.	5.7	73
11	Synthesis of brookite TiO ₂ nanoparticles by ambient condition sol process. <i>Materials Letters</i> , 2006, 60, 1179-1183.	2.6	71
12	Thermodynamic Equilibrium-Driven Formation of Single-Sized Nanocrystals: Reaction Media Tuning CdSe Magic-Sized versus Regular Quantum Dots. <i>Journal of Physical Chemistry C</i> , 2010, 114, 3329-3339.	3.1	71
13	Size-Dependent Temperature Effects on PbSe Nanocrystals. <i>Langmuir</i> , 2010, 26, 11435-11440.	3.5	57
14	Controlling Morphological Parameters of Anodized Titania Nanotubes for Optimized Solar Energy Applications. <i>Materials</i> , 2012, 5, 1890-1909.	2.9	52
15	Sustainable Novel Bamboo-Based Membranes for Water Treatment Fabricated by Regeneration of Bamboo Waste Fibers. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 4225-4235.	6.7	40
16	Ligand Effects on Synthesis and Post-Synthetic Stability of PbSe Nanocrystals. <i>Journal of Physical Chemistry C</i> , 2010, 114, 16160-16167.	3.1	39
17	Scalable economic extracellular synthesis of CdS nanostructured particles by a non-pathogenic thermophile. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2013, 40, 1263-1271.	3.0	31
18	Synthesis and characterization of anodized titanium-oxide nanotube arrays. <i>Journal of Materials Science</i> , 2009, 44, 2820-2827.	3.7	30

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19	STEM characterization on silica nanowires with new mesopore structures by space-confined self-assembly within nano-scale channels. <i>Chemical Communications</i> , 2008, , 1338.	4.1	29
20	Preparation of spherical, dense uranium fuel kernels with carbon. <i>Radiochimica Acta</i> , 2007, 95, .	1.2	28
21	Nanocrystalline BaTiO ₃ powder via a sol process ambient conditions. <i>Journal of the European Ceramic Society</i> , 2006, 26, 2319-2326.	5.7	26
22	A facile approach to PbS nanoflowers and their shape-tunable single crystal hollow nanostructures: Morphology evolution. <i>CrystEngComm</i> , 2011, 13, 199-203.	2.6	26
23	Particle growth and particle-surface interactions during low-temperature deposition of ceramic thin films. <i>Solid State Ionics</i> , 2002, 151, 69-78.	2.7	25
24	Processing of YSZ thin films on dense and porous substrates. <i>Surface and Coatings Technology</i> , 2005, 200, 1242-1247.	4.8	25
25	Transport Properties of Nanosystems: Viscosity of Nanofluids Confined in Slit Nanopores. <i>Journal of Nanoscience and Nanotechnology</i> , 2002, 2, 209-227.	0.9	22
26	Mechanism of nanocrystalline BaTiO ₃ particle formation by hydrothermal refluxing synthesis. <i>Journal of Materials Science: Materials in Electronics</i> , 2003, 14, 495-500.	2.2	20
27	Thermodynamic method for prediction of surfactant-modified oil droplet contact angle. <i>Journal of Colloid and Interface Science</i> , 2004, 270, 229-241.	9.4	19
28	A novel thermal electrochemical synthesis method for production of stable colloids of naked metal (Ag) nanocrystals. <i>Materials Science and Engineering C</i> , 2009, 29, 726-736.	7.3	18
29	Synthesis and Optical Properties of Thiol Functionalized CdSe/ZnS (Core/Shell) Quantum Dots by Ligand Exchange. <i>Journal of Nanomaterials</i> , 2014, 2014, 1-14.	2.7	17
30	Effect of microstructural evolution on wettability of laser coated calcium phosphate on titanium alloy. <i>Materials Science and Engineering C</i> , 2008, 28, 1560-1564.	7.3	14
31	Mutual Transformation between Random Nanoparticles and Their Superlattices: The Configuration of Capping Ligand Chains. <i>Journal of Physical Chemistry C</i> , 2010, 114, 11425-11429.	3.1	14
32	Synthesis of high tetragonality nanoparticle BaTiO ₃ . <i>Microelectronic Engineering</i> , 2006, 83, 463-470.	2.4	13
33	Grain Growth in Nanocrystalline Yttrium-Stabilized Zirconia Thin Films Synthesized by Spin Coating of Polymeric Precursors. <i>Journal of Nanoscience and Nanotechnology</i> , 2002, 2, 161-169.	0.9	13
34	Synthesis of nanocrystalline BaTiO ₃ by solvent refluxing method. <i>Journal of Materials Science Letters</i> , 2003, 22, 557-559.	0.5	12
35	A comparative study of anodized titania nanotube architectures in aqueous and nonaqueous solutions. <i>Journal of Materials Research</i> , 2011, 26, 2612-2623.	2.6	12
36	Electrochemical characterization of B-site cation-excess Pr ₂ Ni _{0.75} Cu _{0.25} Ga _{0.05} O _{4+δ} cathode for IT-SOFCs. <i>Ceramics International</i> , 2015, 41, 12107-12114.	4.8	9

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37	Chemical synthesis and optical properties of CdS/poly(lactic acid) nanocomposites and their transparent fluorescent films. <i>Colloid and Polymer Science</i> , 2011, 289, 395-400.	2.1	8
38	Advanced Nanoporous Materials: Synthesis, Properties, and Applications. <i>Journal of Nanomaterials</i> , 2014, 2014, 1-2.	2.7	8
39	Chemical synthesis and optical characterization of regular and magic-sized CdS quantum dot nanocrystals using 1-dodecanethiol. <i>Journal of Materials Research</i> , 2015, 30, 890-895.	2.6	8
40	Superhydrophobic and superhydrophilic surface-enhanced separation performance of porous inorganic membranes for biomass-to-biofuel conversion applications. <i>Separation Science and Technology</i> , 2017, 52, 528-543.	2.5	8
41	Acetic Acid/Propionic Acid Conversion on Metal Doped Molybdenum Carbide Catalyst Beads for Catalytic Hot Gas Filtration. <i>Catalysts</i> , 2018, 8, 643.	3.5	8
42	Chemical Functionalization, Self-Assembly, and Applications of Nanomaterials and Nanocomposites. <i>Journal of Nanomaterials</i> , 2014, 2014, 1-2.	2.7	7
43	Nanostructured Mesoporous Silica Wires with Intrawire Lamellae via Evaporation-Induced Self-Assembly in Space-Confined Channels. <i>Journal of Nanomaterials</i> , 2014, 2014, 1-8.	2.7	5
44	ZnCuInS/ZnSe/ZnS Quantum Dot-Based Downconversion Light-Emitting Diodes and Their Thermal Effect. <i>Journal of Nanomaterials</i> , 2015, 2015, 1-10.	2.7	5
45	In situ high-temperature X-ray diffraction studies of mixed-conducting perovskite-type oxides. <i>Journal of Materials Science Letters</i> , 2001, 20, 1631-1633.	0.5	4
46	Nanomaterials for Light Management in Electro-Optical Devices. <i>Journal of Nanomaterials</i> , 2012, 2012, 1-2.	2.7	4
47	Performances of YBaCo _{1.4} Cu _{0.6} O _{5+δ} /Ce _{0.8} Sm _{0.2} O _{1.9} composite cathodes for intermediate-temperature solid oxide fuel cells. <i>Ceramics International</i> , 2015, 41, 13772-13779.	4.8	3
48	Chemical-Solution Deposition of Hafnia Films on Self-Assembled Molecular Monolayers. <i>Current Nanoscience</i> , 2006, 2, 13-32.	1.2	2
49	1D Nanostructures: Controlled Fabrication and Energy Applications. <i>Journal of Nanomaterials</i> , 2013, 2013, 1-2.	2.7	2
50	A Modified Solid-State Reduction Method to Prepare Supported Platinum Nanoparticle Catalysts for Low Temperature Fuel Cell Application. <i>Current Nanoscience</i> , 2009, 5, 252-256.	1.2	2
51	Nanostructured Materials for Clean Energy and Environmental Challenges. <i>Journal of Nanomaterials</i> , 2014, 2014, 1-2.	2.7	1
52	Bioinspired Functional Materials. <i>Journal of Nanomaterials</i> , 2014, 2014, 1-2.	2.7	1
53	Chemical Functionalization, Self-Assembly, and Applications of Nanomaterials and Nanocomposites 2014. <i>Journal of Nanomaterials</i> , 2015, 2015, 1-1.	2.7	1
54	STEM characterization on silica nanowires with new mesopore structures by space-confined self-assembly within nano-scale channels. , 0, .		1

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55	Nanocrystals-Related Synthesis, Assembly, and Energy Applications. Journal of Nanomaterials, 2011, 2011, 1-2.	2.7	0
56	Nanocrystals-Related Synthesis, Assembly, and Energy Applications 2012. Journal of Nanomaterials, 2012, 2012, 1-2.	2.7	0
57	Concepts of Novel Nanomaterial Device and Application. Journal of Nanomaterials, 2014, 2014, 1-1.	2.7	0
58	Nano for Biomimetics and Biomaterials. Journal of Nanomaterials, 2014, 2014, 1-1.	2.7	0
59	Electric-Field-Oriented Growth of Long Hair-Like Silica Microfibrils and Derived Functional Monolithic Solids. Recent Patents on Nanotechnology, 2017, 11, 243-251.	1.3	0