

James B Murowchick

List of Publications by Year in descending order

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58
papers

3,418
citations

159585

30
h-index

138484

58
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58
all docs

58
docs citations

58
times ranked

4814
citing authors

#	ARTICLE	IF	CITATIONS
1	Marcasite precipitation from hydrothermal solutions. <i>Geochimica Et Cosmochimica Acta</i> , 1986, 50, 2615-2629.	3.9	263
2	Amorphous carbon-coated TiO ₂ nanocrystals for improved lithium-ion battery and photocatalytic performance. <i>Nano Energy</i> , 2014, 6, 109-118.	16.0	174
3	A Facile Method to Improve the Photocatalytic and Lithium-ion Rechargeable Battery Performance of TiO ₂ Nanocrystals. <i>Advanced Energy Materials</i> , 2013, 3, 1516-1523.	19.5	166
4	Vacuum-treated titanium dioxide nanocrystals: Optical properties, surface disorder, oxygen vacancy, and photocatalytic activities. <i>Catalysis Today</i> , 2014, 225, 2-9.	4.4	162
5	Synthesis and photoactivity of nanostructured CdS@TiO ₂ composite catalysts. <i>Catalysis Today</i> , 2014, 225, 64-73.	4.4	159
6	Asymmetric Lattice Vibrational Characteristics of Rutile TiO ₂ as Revealed by Laser Power Dependent Raman Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2013, 117, 24015-24022.	3.1	155
7	Built-in Electric Field-Assisted Surface-Amorphized Nanocrystals for High-Rate Lithium-Ion Battery. <i>Nano Letters</i> , 2013, 13, 5289-5296.	9.1	143
8	Converting CoMoO ₄ into CoO/MoO ₃ for Overall Water Splitting by Hydrogenation. <i>ACS Sustainable Chemistry and Engineering</i> , 2016, 4, 3743-3749.	6.7	134
9	Rhenium and osmium isotopes in black shales and Ni-Mo-PGE-rich sulfide layers, Yukon Territory, Canada, and Hunan and Guizhou provinces, China. <i>Geochimica Et Cosmochimica Acta</i> , 1994, 58, 257-265.	3.9	128
10	Dual origins of lode gold deposits in the Canadian Cordillera. <i>Geology</i> , 1986, 14, 506.	4.4	111
11	Sedimentary exhalative nickel-molybdenum ores in South China. <i>Economic Geology</i> , 1999, 94, 1051-1066.	3.8	111
12	Effect of hydrogenation on the microwave absorption properties of BaTiO ₃ nanoparticles. <i>Journal of Materials Chemistry A</i> , 2015, 3, 12550-12556.	10.3	108
13	Strong Microwave Absorption of Hydrogenated Wide Bandgap Semiconductor Nanoparticles. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 10407-10413.	8.0	104
14	Marcasite inversion and the petrographic determination of pyrite ancestry. <i>Economic Geology</i> , 1992, 87, 1141-1152.	3.8	91
15	Partially amorphized MnMoO ₄ for highly efficient energy storage and the hydrogen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2016, 4, 3683-3688.	10.3	86
16	FeNi ₃ /NiFeO _x Nanohybrids as Highly Efficient Bifunctional Electrocatalysts for Overall Water Splitting. <i>Advanced Materials Interfaces</i> , 2016, 3, 1600368.	3.7	84
17	Genetic implications of stable isotope characteristics of mesothermal Au deposits and related Sb and Hg deposits in the Canadian Cordillera. <i>Economic Geology</i> , 1989, 84, 1489-1506.	3.8	81
18	Hydrogenated black ZnO nanoparticles with enhanced photocatalytic performance. <i>RSC Advances</i> , 2014, 4, 41654-41658.	3.6	81

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19	Directional Heat Dissipation across the Interface in Anatase-Rutile Nanocomposites. ACS Applied Materials & Interfaces, 2013, 5, 9883-9890.	8.0	79
20	FeP nanoparticles: a new material for microwave absorption. Materials Chemistry Frontiers, 2018, 2, 1119-1125.	5.9	78
21	Cyclic variations of sulfur isotopes in Cambrian stratabound Ni-Mo-(PGE-Au) ores of southern China. Geochimica Et Cosmochimica Acta, 1994, 58, 1813-1823.	3.9	65
22	Microwave absorption of magnesium/hydrogen-treated titanium dioxide nanoparticles. Nano Materials Science, 2019, 1, 48-59.	8.8	61
23	Gold and platinum in shales with evidence against extraterrestrial sources of metals. Chemical Geology, 1992, 99, 101-114.	3.3	57
24	Co2P nanoparticles for microwave absorption. Materials Today Nano, 2018, 1, 1-7.	4.6	57
25	Microwave absorption of aluminum/hydrogen treated titanium dioxide nanoparticles. Journal of Materiomics, 2019, 5, 133-146.	5.7	55
26	Formulation of Dacarbazine-loaded Cubosomes. Part III. Physicochemical Characterization. AAPS PharmSciTech, 2010, 11, 1243-1249.	3.3	46
27	Improving the activity of Co _x P nanoparticles for the electrochemical hydrogen evolution by hydrogenation. Sustainable Energy and Fuels, 2017, 1, 62-68.	4.9	41
28	Spray drying tenofovir loaded mucoadhesive and pH-sensitive microspheres intended for HIV prevention. Antiviral Research, 2013, 97, 334-346.	4.1	37
29	Resveratrol-loaded nanocarriers: Formulation, optimization, characterization and in vitro toxicity on cochlear cells. Colloids and Surfaces B: Biointerfaces, 2014, 118, 234-242.	5.0	33
30	Photocatalytic Hydrogen Generation from Pure Water using Silicon Carbide Nanoparticles. Energy Technology, 2014, 2, 183-187.	3.8	33
31	Uptake and Cytotoxicity of Docetaxel-Loaded Hyaluronic Acid-Grafted Oily Core Nanocapsules in MDA-MB 231 Cancer Cells. Pharmaceutical Research, 2014, 31, 2439-2452.	3.5	32
32	Encapsulation of docetaxel in oily core polyester nanocapsules intended for breast cancer therapy. Nanoscale Research Letters, 2011, 6, 630.	5.7	30
33	Crystalline-amorphous Co@CoO core-shell heterostructures for efficient electro-oxidation of hydrazine. Materials Chemistry Frontiers, 2018, 2, 96-101.	5.9	29
34	Structural evolution from TiO ₂ nanoparticles to nanosheets and their photocatalytic performance in hydrogen generation and environmental pollution removal. RSC Advances, 2014, 4, 16146.	3.6	28
35	Lithium-Ion Battery Performance of (001)-Faceted TiO ₂ Nanosheets vs. Spherical TiO ₂ Nanoparticles. Energy Technology, 2014, 2, 376-382.	3.8	27
36	Influence of the Amount of Hydrogen Fluoride on the Formation of (001)-Faceted Titanium Dioxide Nanosheets and Their Photocatalytic Hydrogen Generation Performance. ChemPlusChem, 2014, 79, 1159-1166.	2.8	24

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37	Influence of Surface Chemistry on Cytotoxicity and Cellular Uptake of Nanocapsules in Breast Cancer and Phagocytic Cells. <i>AAPS Journal</i> , 2014, 16, 550-567.	4.4	24
38	Evaluation of degradation kinetics and physicochemical stability of tenofovir. <i>Drug Testing and Analysis</i> , 2015, 7, 207-213.	2.6	24
39	Entrapment and release kinetics of furosemide from pegylated nanocarriers. <i>Colloids and Surfaces B: Biointerfaces</i> , 2012, 94, 133-142.	5.0	22
40	Carbon nanoparticles as an interfacial layer between TiO ₂ -coated ZnO nanorod arrays and conjugated polymers for high-photocurrent hybrid solar cells. <i>RSC Advances</i> , 2013, 3, 16308.	3.6	17
41	Carlsonite, , and huizingite-(Al), (NH ₄) ₉ Al ₃ (SO ₄) ₈ (OH) ₂ ·4H ₂ O, two new minerals from a natural fire in an oil-bearing shale near Milan, Ohio. <i>American Mineralogist</i> , 2016, 101, 2095-2107.	1.9	17
42	Engineering fast dissolving sodium acetate mediated crystalline solid dispersion of docetaxel. <i>International Journal of Pharmaceutics</i> , 2018, 545, 329-341.	5.2	17
43	Sodium Acetate Coated Tenofovir-Loaded Chitosan Nanoparticles for Improved Physico-Chemical Properties. <i>Pharmaceutical Research</i> , 2016, 33, 367-383.	3.5	16
44	Label-Free Ferrocene-Loaded Nanocarrier Engineering for In Vivo Cochlear Drug Delivery and Imaging. <i>Journal of Pharmaceutical Sciences</i> , 2016, 105, 3162-3171.	3.3	15
45	Formation of TiO ₂ nanomaterials via titanium ethylene glycolide decomposition. <i>Journal of Materials Research</i> , 2013, 28, 326-332.	2.6	14
46	Petrography and sulfur isotopic compositions of SEDEX ores in the early Cambrian Nanhua Basin, South China. <i>Precambrian Research</i> , 2020, 345, 105757.	2.7	13
47	Serpentinization of the Acoje massif, Zambales ophiolite, Philippines: hydrogen and oxygen isotope geochemistry. <i>Tectonophysics</i> , 1989, 168, 101-107.	2.2	12
48	Electrochemically tuned cobalt hydroxide carbonate with abundant grain boundaries for highly efficient electro-oxidation of hydrazine. <i>Materials Chemistry Frontiers</i> , 2018, 2, 369-375.	5.9	10
49	Optimization of Formulation Variables Affecting Spray-Dried Oily Core Nanocapsules by Response Surface Methodology. <i>Journal of Pharmaceutical Sciences</i> , 2011, 100, 1031-1044.	3.3	9
50	Synthesis and self-assembly of triphenylene-containing conjugated macrocycles. <i>RSC Advances</i> , 2013, 3, 6008.	3.6	8
51	Sediment Contamination of Residential Streams in the Metropolitan Kansas City Area, USA: Part I. Distribution of Polycyclic Aromatic Hydrocarbon and Pesticide-Related Compounds. <i>Archives of Environmental Contamination and Toxicology</i> , 2010, 59, 352-369.	4.1	7
52	Preparation of uncapped CdSe _{1-x} S _x semiconducting nanocrystals by mechanical alloying. <i>Journal of Applied Physics</i> , 2011, 110, .	2.5	7
53	Preparation of Uncapped CdSe _x Te _{1-x} Nanocrystals with Strong Near-IR Tunable Absorption. <i>Journal of Electronic Materials</i> , 2013, 42, 3373-3378.	2.2	7
54	Comment and Reply on "Dual origins of lode gold deposits in the Canadian Cordillera". <i>Geology</i> , 1987, 15, 472.	4.4	7

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55	Sediment Contamination of Residential Streams in the Metropolitan Kansas City Area, USA: Part II. Whole-Sediment Toxicity to the Amphipod <i>Hyaella azteca</i> . <i>Archives of Environmental Contamination and Toxicology</i> , 2010, 59, 370-381.	4.1	6
56	Thermodynamics of Drug Nanoencapsulation: Case Study of Phenytoin- Poly (D, L-lactide) Nanocarrier. <i>Current Drug Delivery</i> , 2010, 7, 343-354.	1.6	5
57	Preparation of ternary Cd _{1-x} Zn _x S nanocrystals with tunable ultraviolet absorption by mechanical alloying. <i>Electronic Materials Letters</i> , 2015, 11, 187-192.	2.2	5
58	METALS, PHOSPHATE AND STONE COAL IN THE PROTEROZOIC AND CAMBRIAN OF CHINA: The Geologic Setting of Precious Metal-bearing Ni-Mo Ore Beds. <i>SEG Discovery</i> , 1994, , 1-11.	1.0	3