Xiangchao Zhang

List of Publications by Year
in descending order

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56 papers	3,107 citations	182225 30 h-index	206121 51 g-index
56 all docs	56 docs citations	56 times ranked	4926 citing authors

#	Article	IF	Citations
1	Synergy of surface sodium and hydroxyl on NaTi2HO5 nanotubes accelerating the Pt-dominated ambient HCHO oxidation. Journal of Hazardous Materials, 2022, 421, 126769.	6.5	7
2	Experimental and Numerical Studies on Flowing Properties of Grouting Mortar Based on the Modified MPS Method. Geofluids, 2022, 2022, 1-9.	0.3	0
3	Tuning the interfacial electronic structure via Au clusters for boosting photocatalytic H₂ evolution. Journal of Materials Chemistry A, 2021, 9, 1759-1769.	5.2	33
4	Piezopotential-driven simulated electrocatalytic nanosystem of ultrasmall MoC quantum dots encapsulated in ultrathin N-doped graphene vesicles for superhigh H2 production from pure water. Nano Energy, 2020, 75, 104990.	8.2	64
5	Investigation of natural minerals for ulcerative colitis therapy. Applied Clay Science, 2020, 186, 105436.	2.6	7
6	CO2 capturing performances of millimeter scale beads made by tetraethylenepentamine loaded ultra-fine palygorskite powders from jet pulverization. Chemical Engineering Journal, 2018, 341, 432-440.	6.6	35
7	Textural properties determined CO2 capture of tetraethylenepentamine loaded SiO2 nanowires from Î±-sepiolite. Chemical Engineering Journal, 2018, 337, 342-350.	6.6	50
8	Emerging Nanoclay Composite for Effective Hemostasis. Advanced Functional Materials, 2018, 28, 1704452.	7.8	106
9	Fabrication of Z-Scheme Fe₂O₃â€“MoS₂â€“Cu₂O Ternary Nanofilm with Significantly Enhanced Photoelectrocatalytic Performance. Industrial & Engineering Chemistry Research, 2018, 57, 881-890.	1.8	48
10	Polyethyleneimine (PEI) loaded MgO-SiO 2 nanofibers from sepiolite minerals for reusable CO 2 capture/release applications. Applied Clay Science, 2018, 152, 267-275.	2.6	40
11	Selective Fabrication of Barium Carbonate Nanoparticles in the Lumen of Halloysite Nanotubes. Minerals (Basel, Switzerland), 2018, 8, 296.	0.8	11
12	Mineralogy and Physico-Chemical Data of Two Newly Discovered Halloysite in China and Their Contrasts with Some Typical Minerals. Minerals (Basel, Switzerland), 2018, 8, 108.	0.8	39
13	Visible-light activity of N-LiInO 2 : Band structure modifications through interstitial nitrogen doping. Applied Surface Science, 2017, 391, 645-653.	3.1	7
14	Enhanced visible-light-driven photocatalytic performance of Ag/AgGaO2 metal semiconductor heterostructures. Journal of Alloys and Compounds, 2017, 701, 16-22.	2.8	29
15	Halloysite Nanotubes Supported Ag and ZnO Nanoparticles with Synergistically Enhanced Antibacterial Activity. Nanoscale Research Letters, 2017, 12, 135.	3.1	128
16	Intercalated 2D nanoclay for emerging drug delivery in cancer therapy. Nano Research, 2017, 10, 2633-2643.	5.8	66
17	Fabrication of metal/semiconductor hybrid Ag/AgInO₂ nanocomposites with enhanced visible-light-driven photocatalytic properties. RSC Advances, 2017, 7, 30392-30396.	1.7	13
18	Characterization and synergetic antibacterial properties of ZnO and CeO2 supported by halloysite. Applied Surface Science, 2017, 420, 833-838.	3.1	58

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19	Lauric acid/modified sepiolite composite as a form-stable phase change material for thermal energy storage. Applied Clay Science, 2017, 146, 14-22.	2.6	94
20	Enhanced visibleâ€lightâ€driven photocatalytic activities of LiInO₂ by Mo⁶⁺â€doping strategy. Journal of the American Ceramic Society, 2017, 100, 2781-2789.	1.9	8
21	Enhanced visible light photocatalytic H2 production over Z-scheme g-C3N4 nansheets/WO3 nanorods nanocomposites loaded with Ni(OH) cocatalysts. Chinese Journal of Catalysis, 2017, 38, 240-252.	6.9	237
22	Bi 2 O 3 cocatalyst improving photocatalytic hydrogen evolution performance of TiO 2. Applied Surface Science, 2017, 400, 530-536.	3.1	125
23	Sb2Se3 assembling Sb2O3@ attapulgite as an emerging composites for catalytic hydrogenation of p-nitrophenol. Scientific Reports, 2017, 7, 3281.	1.6	24
24	Constructing 2D layered hybrid CdS nanosheets/MoS 2 heterojunctions for enhanced visible-light photocatalytic H 2 generation. Applied Surface Science, 2017, 391, 580-591.	3.1	284
25	Substitutional Doping for Aluminosilicate Mineral and Superior Water Splitting Performance. Nanoscale Research Letters, 2017, 12, 456.	3.1	31
26	Synthesis of a Novel Visible-light-driven Photocatalyst Ag/AgAlO₂ Composite. Chemistry Letters, 2016, 45, 1288-1290.	0.7	8
27	Emerging integrated nanoclay-facilitated drug delivery system for papillary thyroid cancer therapy. Scientific Reports, 2016, 6, 33335.	1.6	52
28	Amine-Impregnated Mesoporous Silica Nanotube as an Emerging Nanocomposite for CO₂ Capture. ACS Applied Materials & Interfaces, 2016, 8, 17312-17320.	4.0	201
29	Applications and interfaces of halloysite nanocomposites. Applied Clay Science, 2016, 119, 8-17.	2.6	235
30	Helical TiO₂Nanotube Arrays Modified by Cuâ€“Cu₂O with Ultrahigh Sensitivity for the Nonenzymatic Electro-oxidation of Glucose. ACS Applied Materials & Interfaces, 2015, 7, 12719-12730.	4.0	107
31	Synthesis, Characterization and Photocatalysis of Mesoporous TiO2. Asian Journal of Chemistry, 2014, 26, 5491-5494.	0.1	3
32	Photocatalytic degradation of formaldehyde using mesoporous TiO2 prepared by evaporation-induced self-assembly. Journal of Central South University, 2014, 21, 4066-4070.	1.2	7
33	Synthesis, characterization and photocatalysis of AgAlO2/TiO2 heterojunction with sunlight irradiation. Catalysis Communications, 2014, 50, 1-4.	1.6	26
34	Effect of the Steam Activation Thermal Treatment on the Microstructure of Continuous TiO2Fibers. Journal of Nanomaterials, 2012, 2012, 1-7.	1.5	0
35	Novel CuO/TiO₂ Nanocomposite Films with a Graded Band Gap for Visible Light Irradiation. Materials Express, 2012, 2, 238-244.	0.2	15
36	Facile synthesis of ZnO micro-nanostructures with controllable morphology and their applications in dye-sensitized solar cells. Applied Surface Science, 2012, 261, 759-763.	3.1	24

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37	Insights into the physicochemical aspects from natural halloysite to silica nanotubes. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2012, 414, 115-119.	2.3	67
38	Structural characterization and gas sensing property of Cd-doped SnO2 nanocrystallites synthesized by mechanochemical reaction. Sensors and Actuators B: Chemical, 2012, 173, 127-132.	4.0	29
39	Recycling and Reuse of Waste Concrete to Prepare the Concrete Hollow Building Bricks. Advanced Science Letters, 2012, 10, 292-294.	0.2	0
40	Crystallization Kinetics of Continuous TiO₂ Fibers Synthesized by Solâ€“Gel. Advanced Science Letters, 2012, 10, 270-273.	0.2	0
41	Synthesis and characterization of sol-gel derived TiO2 thin films: Effect of different pretreatment process. Inorganic Materials, 2009, 45, 1139-1145.	0.2	13
42	Synthesis, characterization and computational simulation of visible-light irradiated fluorine-doped titanium oxide thin films. Journal of Materials Chemistry, 2009, 19, 6907.	6.7	38
43	Optical, Electrochemical and Hydrophilic Properties of Y₂O₃ Doped TiO₂ Nanocomposite Films. Journal of Physical Chemistry B, 2008, 112, 16271-16279.	1.2	33
44	Solid-state synthesis and electrochemical property of SnO2/NiO nanomaterials. Journal of Alloys and Compounds, 2008, 459, 98-102.	2.8	104
45	Mechanosynthesis and gas-sensing properties of In2O3/SnO2 nanocomposites. Nanotechnology, 2006, 17, 2860-2864.	1.3	25
46	Microwave-assisted synthesis of ceria nanoparticles. Materials Research Bulletin, 2005, 40, 1690-1695.	2.7	87
47	Formation of zinc oxide nanoparticles by mechanochemical reaction. Materials Science and Technology, 2004, 20, 1493-1495.	0.8	13
48	In2O3 nanoparticles synthesized by mechanochemical processing. Scripta Materialia, 2004, 50, 413-415.	2.6	29
49	Mechanochemical synthesis of In2O3/CuO nanocomposites. Materials Chemistry and Physics, 2004, 86, 330-332.	2.0	7
50	Formation of NiFe2O4 nanoparticles by mechanochemical reaction. Materials Research Bulletin, 2004, 39, 833-837.	2.7	133
51	Synthesis of ZnFe2O4 nanocrystallites by mechanochemical reaction. Journal of Physics and Chemistry of Solids, 2004, 65, 1329-1332.	1.9	54
52	Preparation of CdO nanoparticles by mechanochemical reaction. Journal of Nanoparticle Research, 2004, 6, 539-542.	0.8	30
53	Mechanochemical synthesis of cobalt oxide nanoparticles. Materials Letters, 2004, 58, 387-389.	1.3	128
54	Cobalt Ferrite Nanoparticles Prepared by Coprecipitation/Mechanochemical Treatment. Chemistry Letters, 2004, 33, 826-827.	0.7	38

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55	Synthesis of vanadium-doped SnO2 nanoparticles by chemical co-precipitation method. Materials Letters, 2003, 57, 3124-3127.	1.3	56
56	Room Temperature Oxidation of Formaldehyde Using TiO2/Recycled Diatomite Composite. Jom, 0, , 1.	0.9	1