

Xiaolong Deng

List of Publications by Year in descending order

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71
papers

3,433
citations

126858

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138417

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73
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73
docs citations

73
times ranked

5305
citing authors

#	ARTICLE	IF	CITATIONS
1	Controllable synthesis of Co ²⁺ /Al layered double hydroxides with different anionic intercalation layers for the efficient removal of methyl orange. <i>Environmental Technology (United Kingdom)</i> , 2023, 44, 3004-3017.	1.2	2
2	Bimetal phosphide as high efficiency and stable bifunctional electrocatalysts for hydrogen and oxygen evolution reaction in alkaline solution. <i>RSC Advances</i> , 2022, 12, 9051-9057.	1.7	4
3	Metal Ion Migration: A New Insight into the H ⁺ /O ²⁻ Dual-Ion Transport in Perovskite ²⁺ Fluorite Composites. <i>ACS Applied Energy Materials</i> , 2022, 5, 3647-3659.	2.5	1
4	Amorphous FeOOH decorated hierarchy capillary-liked CoAl LDH catalysts for efficient oxygen evolution reaction. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 21289-21297.	3.8	18
5	Recent Advances and Perspectives of Nanostructured Amorphous Alloys in Electrochemical Water Electrolysis. <i>Energy & Fuels</i> , 2021, 35, 15472-15488.	2.5	30
6	Controllable in situ growth of amorphous MoS nanosheets on CoAl layered double hydroxides for efficient oxygen evolution reaction. <i>Electrochemistry Communications</i> , 2020, 110, 106634.	2.3	15
7	Recent progress in functionalized layered double hydroxides and their application in efficient electrocatalytic water oxidation. <i>Journal of Energy Chemistry</i> , 2019, 32, 93-104.	7.1	70
8	Highly sensitive and low working temperature detection of trace triethylamine based on TiO ₂ nanoparticles decorated CuO nanosheets sensors. <i>Sensors and Actuators B: Chemical</i> , 2019, 301, 127019.	4.0	55
9	A high energy-density P ₂ -Na _{2/3} [Ni _{0.3} Co _{0.1} Mn _{0.6}]O ₂ cathode with mitigated P ₂ →O ₂ transition for sodium-ion batteries. <i>Nanoscale</i> , 2019, 11, 2787-2794.	2.8	33
10	<i>In situ</i> growth of metallic Ag ⁰ intercalated CoAl layered double hydroxides as efficient electrocatalysts for the oxygen reduction reaction in alkaline solutions. <i>Dalton Transactions</i> , 2019, 48, 1084-1094.	1.6	30
11	Synthesis of hollow Cu/Cu ₂ O/Cu ₂ S nanotubes for enhanced electrocatalytic hydrogen evolution. <i>Applied Surface Science</i> , 2019, 476, 966-971.	3.1	36
12	Progress in Electrocatalytic Hydrogen Evolution Based on Monolayer Molybdenum Disulfide. <i>Frontiers in Chemistry</i> , 2019, 7, 131.	1.8	17
13	Construction of dual defect mediated Z-scheme photocatalysts for enhanced photocatalytic hydrogen evolution. <i>Applied Catalysis B: Environmental</i> , 2019, 245, 399-409.	10.8	174
14	Liquid Phase Exfoliation of MoS ₂ Assisted by Formamide Solvothermal Treatment and Enhanced Electrocatalytic Activity Based on (H ₃ Mo ₁₂ O ₄₀ /P/MoS ₂) _n Multilayer Structure. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 5227-5237.	3.2	39
15	Synthesis of Ce-doped In ₂ O ₃ nanostructure for gas sensor applications. <i>Applied Surface Science</i> , 2018, 428, 478-484.	3.1	90
16	Controlled synthesis of NiCo ₂ S ₄ hollow spheres as high-performance electrode materials for supercapacitors. <i>Journal of Alloys and Compounds</i> , 2018, 735, 1395-1401.	2.8	43
17	Fabrication of Hierarchical ZnO@NiO Core-Shell Heterostructures for Improved Photocatalytic Performance. <i>Nanoscale Research Letters</i> , 2018, 13, 260.	3.1	22
18	Construction of 3DOM Carbon Nitrides with Quasi-Honeycomb Structures for Efficient Photocatalytic H ₂ Production. <i>ChemCatChem</i> , 2018, 10, 5656-5664.	1.8	21

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19	Enhanced Efficiency of Dye-Sensitized Solar Cells Benefited from Graphene Modified by Ag Nanoparticles. <i>Journal of Nanoscience and Nanotechnology</i> , 2018, 18, 3693-3696.	0.9	7
20	New Properties of Two-Dimensional Materials: Highly Effective Thermal Catalytic Degradation Activity. <i>ChemistrySelect</i> , 2018, 3, 10133-10138.	0.7	1
21	Highly dispersed and noble metal-free MPX (M = Ni, Co, Fe) coupled with g-C ₃ N ₄ nanosheets as OD/2D photocatalysts for hydrogen evolution. <i>Applied Surface Science</i> , 2018, 458, 893-902.	3.1	37
22	Enhanced Dye-Sensitized Solar Cell Efficiency by Insertion of a H ₃ PW ₁₂ O ₄₀ Layer Between the Transparent Conductive Oxide Layer and the Compact TiO ₂ Layer. <i>Science of Advanced Materials</i> , 2018, 10, 867-871.	0.1	4
23	Low-temperature solution synthesis of CuO/Cu ₂ O nanostructures for enhanced photocatalytic activity with added H ₂ O ₂ : synergistic effect and mechanism insight. <i>RSC Advances</i> , 2017, 7, 4329-4338.	1.7	67
24	Low cost and high catalytic efficiency composite counter electrode NiS-H ₃ Mo ₁₂ O ₄₀ P for dye-sensitized solar cells. <i>Materials Letters</i> , 2017, 198, 65-68.	1.3	4
25	Fabrication of ZnO/ZnFe ₂ O ₄ hollow nanocages through metal organic frameworks route with enhanced gas sensing properties. <i>Sensors and Actuators B: Chemical</i> , 2017, 251, 27-33.	4.0	113
26	Fabrication of TiO ₂ Nanosheet Arrays/Graphene/Cu ₂ O Composite Structure for Enhanced Photocatalytic Activities. <i>Nanoscale Research Letters</i> , 2017, 12, 310.	3.1	16
27	One-pot hydrothermal synthesis of CdS decorated CuS microflower-like structures for enhanced photocatalytic properties. <i>Scientific Reports</i> , 2017, 7, 3877.	1.6	51
28	Flexible and high energy density asymmetrical supercapacitors based on core/shell conducting polymer nanowires/manganese dioxide nanoflakes. <i>Nano Energy</i> , 2017, 35, 242-250.	8.2	226
29	Constructing the novel ultrafine amorphous iron oxyhydroxide/g-C ₃ N ₄ nanosheets heterojunctions for highly improved photocatalytic performance. <i>Scientific Reports</i> , 2017, 7, 8686.	1.6	53
30	Ultrathin and Porous Ni ₃ S ₂ /CoNi ₂ S ₄ 3D Network Structure for Superhigh Energy Density Asymmetric Supercapacitors. <i>Advanced Energy Materials</i> , 2017, 7, 1700983.	10.2	498
31	Stabilizing the Electrode/Electrolyte Interface of LiNi _{0.8} Co _{0.15} Al _{0.05} O ₂ through Tailoring Aluminum Distribution in Microspheres as Long-Life, High-Rate, and Safe Cathode for Lithium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 29643-29653.	4.0	133
32	Hierarchical CuCo ₂ O ₄ @nickel-cobalt hydroxides core/shell nanoarchitectures for high-performance hybrid supercapacitors. <i>Science Bulletin</i> , 2017, 62, 1122-1131.	4.3	111
33	In-situ synthesis of amorphous silver silicate/carbonate composites for selective visible-light photocatalytic decomposition. <i>Scientific Reports</i> , 2017, 7, 15001.	1.6	37
34	Synthesis and characterization of Cd-doped ZnMn ₂ O ₄ microspheres as supercapacitor electrodes. <i>Journal of Materials Science: Materials in Electronics</i> , 2017, 28, 1223-1228.	1.1	15
35	MoO ₂ nanoparticles grown on carbon fibers as anode materials for lithium-ion batteries. <i>Ceramics International</i> , 2017, 43, 760-765.	2.3	40
36	NiCo ₂ O ₄ -Based Supercapacitor Nanomaterials. <i>Nanomaterials</i> , 2017, 7, 41.	1.9	129

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37	ZnO@CdS Core-Shell Heterostructures: Fabrication, Enhanced Photocatalytic, and Photoelectrochemical Performance. <i>Nanoscale Research Letters</i> , 2016, 11, 205.	3.1	51
38	Morphology-controlled syntheses of MnO_2 for electrochemical energy storage. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 15235-15243.	1.3	57
39	Synthesis of Zn-doped In_2O_3 nano sphere architectures as a triethylamine gas sensor and photocatalytic properties. <i>RSC Advances</i> , 2016, 6, 89847-89854.	1.7	46
40	Reduced interfacial recombination in dye-sensitized solar cells assisted with $\text{NiO}:\text{Eu}^{3+}, \text{Tb}^{3+}$ coated TiO_2 film. <i>Scientific Reports</i> , 2016, 6, 31123.	1.6	49
41	Hybrid nanostructures of TiO_2 nanorod array/ Cu_2O with a $\text{CH}_3\text{NH}_3\text{PbI}_3$ interlayer for enhanced photocatalytic activity and photoelectrochemical performance. <i>RSC Advances</i> , 2016, 6, 57695-57700.	1.7	5
42	Ag nanoparticles anchored NiO/GO composites for enhanced capacitive performance. <i>Ceramics International</i> , 2016, 42, 12644-12650.	2.3	15
43	Improving the photovoltaic performance of dye sensitized solar cells based on a hierarchical structure with up/down converters. <i>RSC Advances</i> , 2016, 6, 11880-11887.	1.7	15
44	One-Step Solvothermal Method to Prepare $\text{Ag}/\text{Cu}_2\text{O}$ Composite With Enhanced Photocatalytic Properties. <i>Nanoscale Research Letters</i> , 2016, 11, 29.	3.1	31
45	Synthesis of hollow cubic Zn_2SnO_4 sub-microstructures with enhanced photocatalytic performance. <i>Journal of Alloys and Compounds</i> , 2016, 671, 328-333.	2.8	39
46	Polyhedral Zn_2SnO_4 : Synthesis, enhanced gas sensing and photocatalytic performance. <i>Sensors and Actuators B: Chemical</i> , 2016, 229, 627-634.	4.0	86
47	Rare earth ion doped phosphors for dye-sensitized solar cells applications. <i>RSC Advances</i> , 2016, 6, 17546-17559.	1.7	58
48	Enhanced Photocatalytic Performance Using One Dimensional Ordered TiO_2 Nanorods Modified by Graphene Oxide. <i>Journal of Nanoscience and Nanotechnology</i> , 2016, 16, 1477-1482.	0.9	5
49	Facile synthesis of MoO_2 nanoparticles as high performance supercapacitor electrodes and photocatalysts. <i>Ceramics International</i> , 2016, 42, 2198-2203.	2.3	74
50	Three-Dimensionally Porous NiCo_2O_4 Nanoneedle Arrays for High Performance Supercapacitor. <i>Science of Advanced Materials</i> , 2016, 8, 1298-1304.	0.1	22
51	Morphology-modulation of SnO_2 Hierarchical Architectures by Zn Doping for Glycol Gas Sensing and Photocatalytic Applications. <i>Scientific Reports</i> , 2015, 5, 7874.	1.6	112
52	Effects of architectures and H_2O_2 additions on the photocatalytic performance of hierarchical Cu_2O nanostructures. <i>Nanoscale Research Letters</i> , 2015, 10, 8.	3.1	33
53	Morphology transformation of Cu_2O sub-microstructures by Sn doping for enhanced photocatalytic properties. <i>Journal of Alloys and Compounds</i> , 2015, 649, 1124-1129.	2.8	36
54	One-pot synthesis of Zn-doped SnO_2 nanosheet-based hierarchical architectures as a glycol gas sensor and photocatalyst. <i>CrystEngComm</i> , 2015, 17, 4394-4401.	1.3	52

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55	Synthesis and property of spinel porous ZnMn ₂ O ₄ microspheres. Applied Surface Science, 2015, 356, 1127-1134.	3.1	60
56	Enhanced light harvesting of dye-sensitized solar cells with up/down conversion materials. Electrochimica Acta, 2015, 154, 273-277.	2.6	60
57	Anodic Oxidation Synthesis of One-Dimensional TiO ₂ Nanostructures for Photocatalytic and Field Emission Properties. Journal of Nanomaterials, 2014, 2014, 1-14.	1.5	29
58	Improved Ion-Selective Detection Method Using Nanopipette with Poly(vinyl chloride)-Based Membrane. Journal of Physical Chemistry B, 2014, 118, 5130-5134.	1.2	9
59	Effect of concentration gradient on ionic current rectification in polyethyleneimine modified glass nano-pipettes. Scientific Reports, 2014, 4, 4005.	1.6	26
60	Ion-Selective Detection by Plasticized Poly(vinyl chloride) Membrane in Glass Nanopipette with Alternating Voltage Modulation. Journal of Nanoscience and Nanotechnology, 2013, 13, 5413-5419.	0.9	3
61	Development of Beetle-Type Robot with Sub-Micropipette Probe. Japanese Journal of Applied Physics, 2012, 51, 08KB12.	0.8	3
62	Effects of a Load Resistor on Conducting Filament Characteristics and Unipolar Resistive Switching Behaviors in a Pt/NiO/Pt Structure. IEEE Electron Device Letters, 2012, 33, 881-883.	2.2	16
63	Confining grains of textured Cu ₂ O films to single-crystal nanowires and resultant change in resistive switching characteristics. Nanoscale, 2012, 4, 2029.	2.8	31
64	Ion Current Oscillation in Glass Nanopipettes. Journal of Physical Chemistry C, 2012, 116, 14857-14862.	1.5	7
65	Selective Measurement of Calcium and Sodium Ion Conductance Using Sub-Micropipette Probes with Ion Filters. Applied Physics Express, 2012, 5, 027001.	1.1	4
66	Study of the photoluminescence emission line at 3.33 eV in ZnO films. Journal of Applied Physics, 2012, 112, .	1.1	32
67	Unipolar resistive switching mechanism speculated from irreversible low resistance state of Cu ₂ O films. Applied Physics Letters, 2011, 99, 052105.	1.5	20
68	SYNTHESIS OF NANO-CRYSTALLINE CO ₃ O ₄ PARTICLES BY HYDROTHERMAL METHOD UNDER PULSED MAGNETIC FIELD. International Journal of Modern Physics B, 2009, 23, 3602-3607.	1.0	4
69	HYDROTHERMAL SYNTHESIS OF NANOCRYSTAL MnO ₂ UNDER PULSED MAGNETIC FIELD. International Journal of Modern Physics B, 2009, 23, 3608-3612.	1.0	1
70	Hydrothermal synthesis of nanostructured Co ₃ O ₄ materials under pulsed magnetic field and with an aging technique, and their electrochemical performance as anode for lithium-ion battery. Electrochimica Acta, 2009, 55, 504-510.	2.6	93
71	HYDROTHERMAL SYNTHESIS OF ZnO NANOSTRUCTURES UNDER HIGH PULSED MAGNETIC FIELD. International Journal of Modern Physics B, 2009, 23, 3655-3659.	1.0	6