

Xiaolong Deng

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3010177/publications.pdf>

Version: 2024-02-01

71
papers

3,433
citations

126858

33
h-index

138417

58
g-index

73
all docs

73
docs citations

73
times ranked

5305
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | 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 |
| 2 | 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 |
| 3 | 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 |
| 4 | 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 |
| 5 | NiCo ₂ O ₄ -Based Supercapacitor Nanomaterials. <i>Nanomaterials</i> , 2017, 7, 41. | 1.9 | 129 |
| 6 | 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 |
| 7 | 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 |
| 8 | 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 |
| 9 | 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. <i>Electrochimica Acta</i> , 2009, 55, 504-510. | 2.6 | 93 |
| 10 | 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 |
| 11 | Polyhedral Zn ₂ SnO ₄ : Synthesis, enhanced gas sensing and photocatalytic performance. <i>Sensors and Actuators B: Chemical</i> , 2016, 229, 627-634. | 4.0 | 86 |
| 12 | Facile synthesis of MoO ₂ nanoparticles as high performance supercapacitor electrodes and photocatalysts. <i>Ceramics International</i> , 2016, 42, 2198-2203. | 2.3 | 74 |
| 13 | 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 |
| 14 | 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 |
| 15 | Synthesis and property of spinel porous ZnMn ₂ O ₄ microspheres. <i>Applied Surface Science</i> , 2015, 356, 1127-1134. | 3.1 | 60 |
| 16 | Enhanced light harvesting of dye-sensitized solar cells with up/down conversion materials. <i>Electrochimica Acta</i> , 2015, 154, 273-277. | 2.6 | 60 |
| 17 | Rare earth ion doped phosphors for dye-sensitized solar cells applications. <i>RSC Advances</i> , 2016, 6, 17546-17559. | 1.7 | 58 |
| 18 | Morphology-controlled syntheses of δ -MnO ₂ for electrochemical energy storage. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 15235-15243. | 1.3 | 57 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | 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 |
| 20 | 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 |
| 21 | 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 |
| 22 | ZnO@CdS Core-Shell Heterostructures: Fabrication, Enhanced Photocatalytic, and Photoelectrochemical Performance. <i>Nanoscale Research Letters</i> , 2016, 11, 205. | 3.1 | 51 |
| 23 | 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 |
| 24 | Reduced interfacial recombination in dye-sensitized solar cells assisted with NiO:Eu ³⁺ , Tb ³⁺ coated TiO ₂ film. <i>Scientific Reports</i> , 2016, 6, 31123. | 1.6 | 49 |
| 25 | Synthesis of Zn-doped In ₂ O ₃ nano sphere architectures as a triethylamine gas sensor and photocatalytic properties. <i>RSC Advances</i> , 2016, 6, 89847-89854. | 1.7 | 46 |
| 26 | 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 |
| 27 | 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 |
| 28 | Synthesis of hollow cubic Zn ₂ SnO ₄ sub-microstructures with enhanced photocatalytic performance. <i>Journal of Alloys and Compounds</i> , 2016, 671, 328-333. | 2.8 | 39 |
| 29 | 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 |
| 30 | 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 |
| 31 | Highly dispersed and noble metal-free MPX (M ²⁺ =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 |
| 32 | Morphology transformation of Cu ₂ O sub-microstructures by Sn doping for enhanced photocatalytic properties. <i>Journal of Alloys and Compounds</i> , 2015, 649, 1124-1129. | 2.8 | 36 |
| 33 | 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 |
| 34 | Effects of architectures and H ₂ O ₂ additions on the photocatalytic performance of hierarchical Cu ₂ O nanostructures. <i>Nanoscale Research Letters</i> , 2015, 10, 8. | 3.1 | 33 |
| 35 | 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 |
| 36 | Study of the photoluminescence emission line at 3.33 eV in ZnO films. <i>Journal of Applied Physics</i> , 2012, 112, . | 1.1 | 32 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 37 | Confining grains of textured Cu ₂ O films to single-crystal nanowires and resultant change in resistive switching characteristics. <i>Nanoscale</i> , 2012, 4, 2029. | 2.8 | 31 |
| 38 | One-Step Solvothermal Method to Prepare Ag/Cu ₂ O Composite With Enhanced Photocatalytic Properties. <i>Nanoscale Research Letters</i> , 2016, 11, 29. | 3.1 | 31 |
| 39 | <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 |
| 40 | Recent Advances and Perspectives of Nanostructured Amorphous Alloys in Electrochemical Water Electrolysis. <i>Energy & Fuels</i> , 2021, 35, 15472-15488. | 2.5 | 30 |
| 41 | Anodic Oxidation Synthesis of One-Dimensional TiO ₂ Nanostructures for Photocatalytic and Field Emission Properties. <i>Journal of Nanomaterials</i> , 2014, 2014, 1-14. | 1.5 | 29 |
| 42 | Effect of concentration gradient on ionic current rectification in polyethyleneimine modified glass nano-pipettes. <i>Scientific Reports</i> , 2014, 4, 4005. | 1.6 | 26 |
| 43 | Fabrication of Hierarchical ZnO@NiO Core-Shell Heterostructures for Improved Photocatalytic Performance. <i>Nanoscale Research Letters</i> , 2018, 13, 260. | 3.1 | 22 |
| 44 | Three-Dimensionally Porous NiCo ₂ O ₄ Nanoneedle Arrays for High Performance Supercapacitor. <i>Science of Advanced Materials</i> , 2016, 8, 1298-1304. | 0.1 | 22 |
| 45 | 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 |
| 46 | Unipolar resistive switching mechanism speculated from irreversible low resistance state of Cu ₂ O films. <i>Applied Physics Letters</i> , 2011, 99, 052105. | 1.5 | 20 |
| 47 | 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 |
| 48 | Progress in Electrocatalytic Hydrogen Evolution Based on Monolayer Molybdenum Disulfide. <i>Frontiers in Chemistry</i> , 2019, 7, 131. | 1.8 | 17 |
| 49 | Effects of a Load Resistor on Conducting Filament Characteristics and Unipolar Resistive Switching Behaviors in a Pt/NiO/Pt Structure. <i>IEEE Electron Device Letters</i> , 2012, 33, 881-883. | 2.2 | 16 |
| 50 | 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 |
| 51 | Ag nanoparticles anchored NiO/GO composites for enhanced capacitive performance. <i>Ceramics International</i> , 2016, 42, 12644-12650. | 2.3 | 15 |
| 52 | 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 |
| 53 | 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 |
| 54 | 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 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 55 | Improved Ion-Selective Detection Method Using Nanopipette with Poly(vinyl chloride)-Based Membrane. <i>Journal of Physical Chemistry B</i> , 2014, 118, 5130-5134. | 1.2 | 9 |
| 56 | Ion Current Oscillation in Glass Nanopipettes. <i>Journal of Physical Chemistry C</i> , 2012, 116, 14857-14862. | 1.5 | 7 |
| 57 | 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 |
| 58 | HYDROTHERMAL SYNTHESIS OF ZnO NANOSTRUCTURES UNDER HIGH PULSED MAGNETIC FIELD. <i>International Journal of Modern Physics B</i> , 2009, 23, 3655-3659. | 1.0 | 6 |
| 59 | Hybrid nanostructures of TiO_2 nanorod array/ Cu_2O with a $CH_3NH_3PbI_3$ interlayer for enhanced photocatalytic activity and photoelectrochemical performance. <i>RSC Advances</i> , 2016, 6, 57695-57700. | 1.7 | 5 |
| 60 | 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 |
| 61 | SYNTHESIS OF NANO-CRYSTALLINE CO_3O_4 PARTICLES BY HYDROTHERMAL METHOD UNDER PULSED MAGNETIC FIELD. <i>International Journal of Modern Physics B</i> , 2009, 23, 3602-3607. | 1.0 | 4 |
| 62 | Selective Measurement of Calcium and Sodium Ion Conductance Using Sub-Micropipette Probes with Ion Filters. <i>Applied Physics Express</i> , 2012, 5, 027001. | 1.1 | 4 |
| 63 | Low cost and high catalytic efficiency composite counter electrode $NiS-H_3Mo_{12}O_{40}P$ for dye-sensitized solar cells. <i>Materials Letters</i> , 2017, 198, 65-68. | 1.3 | 4 |
| 64 | Enhanced Dye-Sensitized Solar Cell Efficiency by Insertion of a $H_3PW_{12}O_{40}$ 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 |
| 65 | 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 |
| 66 | Development of Beetle-Type Robot with Sub-Micropipette Probe. <i>Japanese Journal of Applied Physics</i> , 2012, 51, 08KB12. | 0.8 | 3 |
| 67 | Ion-Selective Detection by Plasticized Poly(vinyl chloride) Membrane in Glass Nanopipette with Alternating Voltage Modulation. <i>Journal of Nanoscience and Nanotechnology</i> , 2013, 13, 5413-5419. | 0.9 | 3 |
| 68 | Controllable synthesis of $Co-Al$ 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 |
| 69 | HYDROTHERMAL SYNTHESIS OF NANOCRYSTAL MnO_2 UNDER PULSED MAGNETIC FIELD. <i>International Journal of Modern Physics B</i> , 2009, 23, 3608-3612. | 1.0 | 1 |
| 70 | New Properties of Two-Dimensional Materials: Highly Effective Thermal Catalytic Degradation Activity. <i>ChemistrySelect</i> , 2018, 3, 10133-10138. | 0.7 | 1 |
| 71 | Metal Ion Migration: A New Insight into the H^+/O^{2-} Dual-Ion Transport in Perovskite-Fluorite Composites. <i>ACS Applied Energy Materials</i> , 2022, 5, 3647-3659. | 2.5 | 1 |