

# Helin Niu

## List of Publications by Year in descending order

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59  
papers

1,366  
citations

361296

20  
h-index

377752

34  
g-index

59  
all docs

59  
docs citations

59  
times ranked

2128  
citing authors

#	ARTICLE	IF	CITATIONS
1	Hierarchical structured bismuth oxychlorides: self-assembly from nanoplates to nanoflowers via a solvothermal route and their photocatalytic properties. <i>CrystEngComm</i> , 2010, 12, 3875.	1.3	188
2	A Cd-MOF as a fluorescent probe for highly selective, sensitive and stable detection of antibiotics in water. <i>Analyst</i> , 2019, 144, 2656-2661.	1.7	76
3	General Method for Large Area Films of Carbon Nanomaterials and Application of a Self-Assembled Carbon Nanotube Film as a High-Performance Electrode Material for an All-Solid-State Supercapacitor. <i>Advanced Functional Materials</i> , 2017, 27, 1700474.	7.8	75
4	Core-shell CeO <sub>2</sub> @C nanospheres as enhanced anode materials for lithium ion batteries. <i>Journal of Materials Chemistry A</i> , 2014, 2, 6790.	5.2	59
5	Enhanced photoelectrochemical DNA sensor based on TiO <sub>2</sub> /Au hybrid structure. <i>Biosensors and Bioelectronics</i> , 2018, 116, 23-29.	5.3	57
6	Graphene-like cobalt selenide nanostructures: template-free solvothermal synthesis, characterization and wastewater treatment. <i>CrystEngComm</i> , 2011, 13, 5681.	1.3	48
7	Co <sup>2+</sup> induced phase transformation from $\gamma$ - to $\delta$ -MnO <sub>2</sub> and their hierarchical $\delta$ -MnO <sub>2</sub> @ $\gamma$ -MnO <sub>2</sub> nanostructures for efficient asymmetric supercapacitors. <i>Journal of Materials Chemistry A</i> , 2019, 7, 12661-12668.	5.2	43
8	Self-assembly of CNTs on Ni foam for enhanced performance of NiCoO <sub>2</sub> @CNT@NF supercapacitor electrode. <i>Chemical Engineering Journal</i> , 2021, 410, 128317.	6.6	43
9	A carbon-oxygen-bridged hexacyclic ladder-type building block for low-bandgap nonfullerene acceptors. <i>Materials Chemistry Frontiers</i> , 2018, 2, 700-703.	3.2	41
10	Highly sensitive electrochemical biosensor for streptavidin detection based on CdSe quantum dots. <i>Biosensors and Bioelectronics</i> , 2018, 103, 99-103.	5.3	36
11	Doping Zn <sup>2+</sup> in CuS Nanoflowers into Chemically Homogeneous Zn <sub>0.49</sub> Cu <sub>0.50</sub> S <sub>1.01</sub> Superlattice Crystal Structure as High-Efficiency n-Type Photoelectric Semiconductors. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 15820-15827.	4.0	34
12	A label-free photoelectrochemical biosensor for urokinase-type plasminogen activator detection based on a g-C <sub>3</sub> N <sub>4</sub> /CdS nanocomposite. <i>Analytica Chimica Acta</i> , 2018, 1025, 99-107.	2.6	30
13	Visible-Light Active and Magnetically Recyclable Nanocomposites for the Degradation of Organic Dye. <i>Materials</i> , 2014, 7, 4034-4044.	1.3	29
14	Electrochemical biosensor for Ni <sup>2+</sup> detection based on a DNAzyme-CdSe nanocomposite. <i>Biosensors and Bioelectronics</i> , 2016, 77, 13-18.	5.3	29
15	Colloidal Synthesis and Thermoelectric Properties of CuFeSe <sub>2</sub> Nanocrystals. <i>Nanomaterials</i> , 2018, 8, 8.	1.9	29
16	Enhanced electrochemiluminescence of CdSe quantum dots coupled with MoS <sub>2</sub> -chitosan nanosheets. <i>Journal of Solid State Electrochemistry</i> , 2015, 19, 1633-1641.	1.2	25
17	Bottom-Up Assembly of a Highly Efficient Metal-Organic Framework for Cooperative Catalysis. <i>Inorganic Chemistry</i> , 2018, 57, 13912-13919.	1.9	22
18	Electrochemiluminescence immunoassay for the prostate-specific antigen by using a CdS/chitosan/g-C <sub>3</sub> N <sub>4</sub> nanocomposite. <i>Mikrochimica Acta</i> , 2020, 187, 155.	2.5	22

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19	Boosting the $K^{+}$ -adsorption capacity in edge-nitrogen doped hierarchically porous carbon spheres for ultrastable potassium ion battery anodes. <i>Nanoscale</i> , 2021, 13, 19634-19641.	2.8	22
20	Optimizing the nitrogen configuration in interlayer-expanded carbon materials <i>via</i> sulfur-bridged bonds toward remarkable energy storage performances. <i>Journal of Materials Chemistry A</i> , 2022, 10, 10033-10042.	5.2	22
21	One-step preparation of Ni <sub>3</sub> S <sub>4</sub> quantum dots composite graphene/carbon nanotube conductive network for asymmetric supercapacitor. <i>Journal of Alloys and Compounds</i> , 2021, 859, 158247.	2.8	21
22	Regulating the sodium storage sites in nitrogen-doped carbon materials by sulfur-doping engineering for sodium ion batteries. <i>Electrochimica Acta</i> , 2022, 424, 140645.	2.6	20
23	A facile synthesis of graphene-like cobalt-nickel double hydroxide nanocomposites at room temperature and their excellent catalytic and adsorption properties. <i>Journal of Nanoparticle Research</i> , 2014, 16, 1.	0.8	19
24	One-pot synthesis of ZnO decorated with AgBr nanoparticles and its enhanced photocatalytic properties. <i>CrystEngComm</i> , 2014, 16, 2652.	1.3	18
25	Electrochemiluminescence immunoassay for the carcinoembryonic antigen using CdSe:Eu nanocrystals. <i>Mikrochimica Acta</i> , 2017, 184, 1353-1360.	2.5	18
26	Synthesis of zinc 1-(2-pyridylazo)-2-naphthol (Zn(PAN) <sub>2</sub> ) nanobelts with nonlinear optical property. <i>CrystEngComm</i> , 2012, 14, 6823.	1.3	17
27	Photoelectrochemical immunoassay for human interleukin 6 based on the use of perovskite-type LaFeO <sub>3</sub> nanoparticles on fluorine-doped tin oxide glass. <i>Mikrochimica Acta</i> , 2018, 185, 52.	2.5	17
28	A novel self-assembled-derived 1D MnO <sub>2</sub> @Co <sub>3</sub> O <sub>4</sub> composite as a high-performance Li-ion storage anode material. <i>Dalton Transactions</i> , 2020, 49, 6644-6650.	1.6	17
29	A mild reduction of Co-doped MnO <sub>2</sub> to create abundant oxygen vacancies and active sites for enhanced oxygen evolution reaction. <i>Nanoscale</i> , 2021, 13, 11120-11127.	2.8	17
30	Highly Stable Hierarchical Flower-like In <sub>2</sub> S <sub>3</sub> Assembled from 2D Nanosheets with high Adsorption-Photodecolorization Activities for the Treatment of Wastewater. <i>Journal of Nanoparticle Research</i> , 2017, 19, 1.	0.8	16
31	Electrochemiluminescent biosensor with DNA link for selective detection of human IgG based on steric hindrance. <i>Talanta</i> , 2019, 194, 745-751.	2.9	16
32	A two-dimensional zinc(II)-based metal-organic framework for fluorometric determination of ascorbic acid, chloramphenicol and ceftriaxone. <i>Mikrochimica Acta</i> , 2020, 187, 136.	2.5	16
33	Self-Assembly of Lanthanide-Based Metallogel Nanoplates into Microcubic Blocks as Self-Calibrating Luminescent Methanol Sensors. <i>ACS Applied Nano Materials</i> , 2021, 4, 4735-4745.	2.4	16
34	Synthesis of a novel double-ligand nickel conductive metal-organic framework material and its electrochemical characterization for supercapacitors. <i>Journal of Materials Science</i> , 2021, 56, 2517-2527.	1.7	15
35	Facile Synthesis of CeO <sub>2</sub> -LaFeO <sub>3</sub> Perovskite Composite and Its Application for 4-(Methylnitrosamino)-1-(3-Pyridyl)-1-Butanone (NNK) Degradation. <i>Materials</i> , 2016, 9, 326.	1.3	14
36	Zr <sup>4+</sup> -based metal organic gel as a fluorescent "Turn on" sensing platform for the selective detection and adsorption of CrO <sub>4</sub> <sup>2-</sup> . <i>Materials Chemistry Frontiers</i> , 2021, 5, 1932-1941.	3.2	13

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37	Synthesis of monodisperse pancake-like Bi <sub>2</sub> WO <sub>6</sub> with prominent photocatalytic performances. <i>Research on Chemical Intermediates</i> , 2018, 44, 2251-2259.	1.3	12
38	Synthesis of novel C-doped g-C <sub>3</sub> N <sub>4</sub> nanosheets coupled with CdIn <sub>2</sub> S <sub>4</sub> for enhanced photocatalytic hydrogen evolution. <i>Beilstein Journal of Nanotechnology</i> , 2019, 10, 912-921.	1.5	12
39	Self-assembly of MnO <sub>2</sub> /Mn <sub>3</sub> O <sub>4</sub> hierarchical structure on carbon cloth for asymmetric supercapacitors. <i>Journal of Materials Science</i> , 2021, 56, 3246-3255.	1.7	12
40	Stabilizing V <sub>2</sub> O <sub>3</sub> in carbon nanofiber flexible films for ultrastable potassium storage. <i>Inorganic Chemistry Frontiers</i> , 2022, 9, 1434-1445.	3.0	11
41	Preparation and photoelectrochemical performance of TiO <sub>2</sub> /Ag <sub>2</sub> Se interface composite film. <i>Science in China Series B: Chemistry</i> , 2009, 52, 2213-2218.	0.8	10
42	Synthesis and Electrochemical Properties of PbSe Nanotubes. <i>Journal of Physical Chemistry C</i> , 2009, 113, 18091-18096.	1.5	10
43	Synergy of PVP and ethanol to synthesize Ni <sub>3</sub> S <sub>4</sub> quantum dots for high-performance asymmetric supercapacitors. <i>Materials Chemistry Frontiers</i> , 2020, 4, 1764-1772.	3.2	10
44	A synergistic strategy combining amorphous Ni <sub>3</sub> S <sub>4</sub> quantum dots and zeolite imidazole framework nanosheets for enhanced supercapacitor performance. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021, 623, 126710.	2.3	10
45	Ag <sub>3</sub> PO <sub>4</sub> nanocrystals deposited on monoclinic olive-like BiVO <sub>4</sub> with efficient photodegradation of organic dyes under visible light irradiation. <i>Journal of Nanoparticle Research</i> , 2017, 19, 1.	0.8	9
46	Preparation and Electrochemiluminescence of a Graphene Oxide/Selenium Nanocomposite. <i>Analytical Letters</i> , 2013, 46, 1394-1403.	1.0	8
47	Highly selective adsorption of organic dyes containing sulphonic groups using Cu <sub>2</sub> (OH) <sub>3</sub> NO <sub>3</sub> nanosheets. <i>Journal of Nanoparticle Research</i> , 2016, 18, 1.	0.8	8
48	CuAgSe nanocrystals: colloidal synthesis, characterization and their thermoelectric performance. <i>Journal of Materials Science</i> , 2018, 53, 14998-15008.	1.7	8
49	Coordination-induced spontaneous resolution of a TPPE-based MOF and its use as a crystalline sponge in guest determination. <i>Dalton Transactions</i> , 2021, 50, 7186-7190.	1.6	8
50	Self-catalytic synthesis of hydrophilic polypyrrole/tellurium nanocomposite and its capacitance performance. <i>Journal of Solid State Electrochemistry</i> , 2017, 21, 2381-2391.	1.2	7
51	Conductive NiMn-based bimetallic metal-organic gel nanosheets for supercapacitors. <i>Materials Advances</i> , 2021, 2, 4362-4369.	2.6	7
52	Self-catalytic synthesis of soluble polythiophene/tellurium nanocomposite and its nonlinear optical property. <i>Colloid and Polymer Science</i> , 2016, 294, 1259-1267.	1.0	6
53	Hydrothermal synthesis and capacitance property of cobalt sulfide/graphene oxide nanocomposite. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2017, 32, 80-84.	0.4	6
54	A study on surfactant-free growth of silver-carbon nanocables by H <sub>2</sub> SO <sub>4</sub> -mediated hydrothermal process. <i>Journal of Materials Research</i> , 2011, 26, 2780-2794.	1.2	4

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55	Electrochemical synthesis and photoelectrochemical properties of a novel RGO/AgNDs composite. RSC Advances, 2015, 5, 32994-33000.	1.7	3
56	Facile synthesis of uniform hierarchical composites CuO-CeO <sub>2</sub> for enhanced dye removal. Journal of Nanoparticle Research, 2016, 18, 1.	0.8	3
57	Preparation and photoelectrochemical performance of PbSe/BaTiO <sub>3</sub> /TiO <sub>2</sub> composite film. Journal of Sol-Gel Science and Technology, 2013, 67, 660-664.	1.1	1
58	An electrochemiluminescence sensor based on a sulfur-terminal CdS <sub>2</sub> L complex. Analytical Methods, 2015, 7, 6566-6571.	1.3	1
59	In-situ Electrochemical Activation Enhances the OER Catalytic Performance of Ag NWs@ZIF-67 in Alkaline Simulated Seawater. ChemistrySelect, 2022, 7, .	0.7	0