

# Rui Huang

## List of Publications by Year in descending order

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Version: 2024-02-01

78  
papers

6,626  
citations

126708

33  
h-index

64668

79  
g-index

82  
all docs

82  
docs citations

82  
times ranked

9867  
citing authors

#	ARTICLE	IF	CITATIONS
1	Recent advances in graphene quantum dots for sensing. <i>Materials Today</i> , 2013, 16, 433-442.	8.3	659
2	Graphene Quantum Dots-Band-Aids Used for Wound Disinfection. <i>ACS Nano</i> , 2014, 8, 6202-6210.	7.3	628
3	Accelerated Hydrogen Evolution Kinetics on NiFe <sup>2+</sup> -Layered Double Hydroxide Electrocatalysts by Tailoring Water Dissociation Active Sites. <i>Advanced Materials</i> , 2018, 30, 1706279.	11.1	601
4	Carbon Nanozymes: Enzymatic Properties, Catalytic Mechanism, and Applications. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 9224-9237.	7.2	424
5	Antibacterial applications of graphene-based nanomaterials: Recent achievements and challenges. <i>Advanced Drug Delivery Reviews</i> , 2016, 105, 176-189.	6.6	420
6	Deciphering a Nanocarbon <sup>2+</sup> -Based Artificial Peroxidase: Chemical Identification of the Catalytically Active and Substrate <sup>2+</sup> -Binding Sites on Graphene Quantum Dots. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 7176-7180.	7.2	380
7	Activation of biologically relevant levels of reactive oxygen species by Au/g-C <sub>3</sub> N <sub>4</sub> hybrid nanozyme for bacteria killing and wound disinfection. <i>Biomaterials</i> , 2017, 113, 145-157.	5.7	318
8	Ag Nanoparticle-decorated graphene quantum dots for label-free, rapid and sensitive detection of Ag <sup>+</sup> and biothiols. <i>Chemical Communications</i> , 2013, 49, 1079.	2.2	227
9	Improvement of Photoluminescence of Graphene Quantum Dots with a Biocompatible Photochemical Reduction Pathway and Its Bioimaging Application. <i>ACS Applied Materials &amp; Interfaces</i> , 2013, 5, 1174-1179.	4.0	224
10	Highly Photoluminescent Amino <sup>2+</sup> -Functionalized Graphene Quantum Dots Used for Sensing Copper Ions. <i>Chemistry - A European Journal</i> , 2013, 19, 13362-13368.	1.7	211
11	Transition-metal-substituted polyoxometalate derivatives as functional anti-amyloid agents for Alzheimer <sup>2+</sup> 's disease. <i>Nature Communications</i> , 2014, 5, 3422.	5.8	204
12	Programmed Bacteria Death Induced by Carbon Dots with Different Surface Charge. <i>Small</i> , 2016, 12, 4713-4718.	5.2	202
13	Visible-light-driven enhanced antibacterial and biofilm elimination activity of graphitic carbon nitride by embedded Ag nanoparticles. <i>Nano Research</i> , 2015, 8, 1648-1658.	5.8	179
14	Carbon Nanomaterials and DNA: from Molecular Recognition to Applications. <i>Accounts of Chemical Research</i> , 2016, 49, 461-470.	7.6	132
15	Gold <sup>2+</sup> -Nanoparticle <sup>2+</sup> -Based Multifunctional Amyloid <sup>2+</sup> Inhibitor against Alzheimer <sup>2+</sup> 's Disease. <i>Chemistry - A European Journal</i> , 2015, 21, 829-835.	1.7	127
16	Thiophene <sup>2+</sup> -Bridged Donor <sup>2+</sup> -Acceptor sp <sup>2</sup> -Carbon <sup>2+</sup> -Linked 2D Conjugated Polymers as Photocathodes for Water Reduction. <i>Advanced Materials</i> , 2021, 33, e2006274.	11.1	100
17	Synthesis of Fluorinated and Nonfluorinated Graphene Quantum Dots through a New Top <sup>2+</sup> -Down Strategy for Long <sup>2+</sup> -Time Cellular Imaging. <i>Chemistry - A European Journal</i> , 2015, 21, 3791-3797.	1.7	99
18	Polyoxometalate-based nanozyme: Design of a multifunctional enzyme for multi-faceted treatment of Alzheimer <sup>2+</sup> 's disease. <i>Nano Research</i> , 2016, 9, 1079-1090.	5.8	96

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19	Mesoporous Encapsulated Chiral Nanogold for Use in Enantioselective Reactions. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 16791-16795.	7.2	91
20	How functional groups influence the ROS generation and cytotoxicity of graphene quantum dots. <i>Chemical Communications</i> , 2017, 53, 10588-10591.	2.2	73
21	Pt and Au bimetallic and monometallic nanostructured amperometric sensors for direct detection of hydrogen peroxide: Influences of bimetallic effect and silica support. <i>Sensors and Actuators B: Chemical</i> , 2018, 255, 1325-1334.	4.0	65
22	Germanium substitution endowing Cr <sup>3+</sup> -doped zinc aluminate phosphors with bright and super-long near-infrared persistent luminescence. <i>Acta Materialia</i> , 2018, 155, 214-221.	3.8	62
23	Polyoxometalate-based Rewritable Paper. <i>Chemistry of Materials</i> , 2015, 27, 7573-7576.	3.2	61
24	Social participation and perceived depression among elderly population in South Africa. <i>Clinical Interventions in Aging</i> , 2017, Volume 12, 971-976.	1.3	56
25	Preparation of highly dispersed palladium-phosphorus nanoparticles and its electrocatalytic performance for formic acid electrooxidation. <i>Electrochimica Acta</i> , 2012, 59, 279-283.	2.6	54
26	Label-free ratiometric electrochemical detection of the mutated apolipoprotein E gene associated with Alzheimer's disease. <i>Chemical Communications</i> , 2016, 52, 12080-12083.	2.2	53
27	Poly(1,4-Diethynylbenzene) Gradient Homojunction with Enhanced Charge Carrier Separation for Photoelectrochemical Water Reduction. <i>Advanced Materials</i> , 2019, 31, e1900961.	11.1	53
28	The availability and affordability of orphan drugs for rare diseases in China. <i>Orphanet Journal of Rare Diseases</i> , 2016, 11, 20.	1.2	46
29	Triple-Mode Emissions with Invisible Near-Infrared After-Glow from Cr <sup>3+</sup> -Doped Zinc Aluminum Germanium Nanoparticles for Advanced Anti-Counterfeiting Applications. <i>Small</i> , 2020, 16, e2003121.	5.2	46
30	Molecular Engineering of Conjugated Acetylenic Polymers for Efficient Cocatalyst-free Photoelectrochemical Water Reduction. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 10368-10374.	7.2	42
31	Hydrogen-producing hyperthermophilic bacteria synthesized size-controllable fine gold nanoparticles with excellence for eradicating biofilm and antibacterial applications. <i>Journal of Materials Chemistry B</i> , 2018, 6, 4602-4609.	2.9	41
32	Deciphering a Nanocarbon-Based Artificial Peroxidase: Chemical Identification of the Catalytically Active and Substrate-Binding Sites on Graphene Quantum Dots. <i>Angewandte Chemie</i> , 2015, 127, 7282-7286.	1.6	39
33	Reduced graphene oxide supported chiral Ni particles as magnetically reusable and enantioselective catalyst for asymmetric hydrogenation. <i>Carbon</i> , 2014, 79, 615-622.	5.4	34
34	Conjugated Acetylenic Polymers Grafted Cuprous Oxide as an Efficient Z-scheme Heterojunction for Photoelectrochemical Water Reduction. <i>Advanced Materials</i> , 2020, 32, e2002486.	11.1	34
35	Plasmonic Nanozymes: Localized Surface Plasmonic Resonance Regulates Reaction Kinetics and Antibacterial Performance. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 312-323.	2.1	31
36	Thiophene-Based Conjugated Acetylenic Polymers with Dual Active Sites for Efficient Co-catalyst-free Photoelectrochemical Water Reduction in Alkaline Medium. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 18876-18881.	7.2	28

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37	Molecular Engineering of Conjugated Acetylenic Polymers for Efficient Cocatalyst-free Photoelectrochemical Water Reduction. <i>Angewandte Chemie</i> , 2019, 131, 10476-10482.	1.6	27
38	Ligand-Exchange-Mediated Fabrication of Gold Aerogels Containing Different Au(I) Content with Peroxidase-like Behavior. <i>Chemistry of Materials</i> , 2019, 31, 10094-10099.	3.2	26
39	Health Perceptions and Misconceptions Regarding COVID-19 in China: Online Survey Study. <i>Journal of Medical Internet Research</i> , 2020, 22, e21099.	2.1	24
40	Effect of financial stress on self-reported health and quality of life among older adults in five developing countries: a cross sectional analysis of WHO-SAGE survey. <i>BMC Geriatrics</i> , 2020, 20, 288.	1.1	23
41	Pathogen-mimicking nanocomplexes: self-stimulating oxidative stress in tumor microenvironment for chemo-immunotherapy. <i>Materials Today</i> , 2017, 20, 346-353.	8.3	22
42	Immobilization of enzyme on chiral polyelectrolyte surface. <i>Analytica Chimica Acta</i> , 2017, 952, 88-95.	2.6	21
43	Kohlenstoff-Nanozyme: Enzymatische Eigenschaften, Katalysemechanismen und Anwendungen. <i>Angewandte Chemie</i> , 2018, 130, 9366-9379.	1.6	21
44	Positive effect of codoping Yb <sup>3+</sup> on the super-long persistent luminescence of Cr <sup>3+</sup> -doped zinc aluminum germanate. <i>Ceramics International</i> , 2018, 44, 17377-17382.	2.3	19
45	Association Between Mass Media Use and Maternal Healthcare Service Utilisation in Malawi. <i>Journal of Multidisciplinary Healthcare</i> , 2021, Volume 14, 1159-1167.	1.1	19
46	Ethanol electrooxidation on carbon-supported Pt nanoparticles catalyst prepared using complexing self-reduction method. <i>International Journal of Hydrogen Energy</i> , 2011, 36, 7265-7274.	3.8	18
47	Ratiometric determination of copper(II) using dually emitting Mn(II)-doped ZnS quantum dots as a fluorescent probe. <i>Mikrochimica Acta</i> , 2018, 185, 511.	2.5	17
48	Analysis of high alert medication knowledge of medical staff in Tianjin: A convenient sampling survey in China. <i>Journal of Huazhong University of Science and Technology [Medical Sciences]</i> , 2015, 35, 176-182.	1.0	16
49	Carbon-dot-decorated TiO <sub>2</sub> nanotube arrays used for photo/voltage-induced organic pollutant degradation and the inactivation of bacteria. <i>Nanotechnology</i> , 2016, 27, 115301.	1.3	16
50	Synthesis of carbon supported palladium nanoparticles catalyst using a facile homogeneous precipitation-reduction reaction method for formic acid electrooxidation. <i>Applied Surface Science</i> , 2011, 257, 10483-10488.	3.1	15
51	Graphene-Mesoporous Silica-Dispersed Palladium Nanoparticles-Based Probe Carrier Platform for Electrocatalytic Sensing of Telomerase Activity at Less Than Single-Cell Level. <i>Advanced Healthcare Materials</i> , 2014, 3, 588-595.	3.9	14
52	Mesoporous Encapsulated Chiral Nanogold for Use in Enantioselective Reactions. <i>Angewandte Chemie</i> , 2018, 130, 17033-17037.	1.6	14
53	Subjective health and quality of life among elderly people living with chronic multimorbidity and difficulty in activities of daily living in rural South Africa. <i>Clinical Interventions in Aging</i> , 2019, Volume 14, 1285-1296.	1.3	13
54	Safety of traditional Chinese medicine injection based on spontaneous reporting system from 2014 to 2019 in Hubei Province, China. <i>Scientific Reports</i> , 2021, 11, 8875.	1.6	12

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55	Influencing factors and their relationships of risk perception and decision-making behaviour of polypharmacy in patients with chronic diseases: a qualitative descriptive study. <i>BMJ Open</i> , 2021, 11, e043557.	0.8	12
56	Safety Profile of Oxaliplatin in 3,687 Patients With Cancer in China: A Post-Marketing Surveillance Study. <i>Frontiers in Oncology</i> , 2021, 11, 757196.	1.3	12
57	Determinants of Subjective Health, Happiness, and Life Satisfaction among Young Adults (18-24 Years) in Guyana. <i>BioMed Research International</i> , 2020, 2020, 1-14.	0.9	11
58	Wireless near-infrared electrical stimulation of neurite outgrowth. <i>Chemical Communications</i> , 2019, 55, 9833-9836.	2.2	10
59	Recent advances in phosphorus containing noble metal electrocatalysts for direct liquid fuel cells. <i>Nanoscale</i> , 2021, 13, 16052-16069.	2.8	10
60	Preventive behaviours and family inequalities during the COVID-19 pandemic: a cross-sectional study in China. <i>Infectious Diseases of Poverty</i> , 2021, 10, 100.	1.5	10
61	Fabrication of a hierarchical nanoreactor based on COFs for cascade enzyme catalysis. <i>Chemical Communications</i> , 2022, 58, 3933-3936.	2.2	9
62	Cognition and Sociodemographic Determinants for Effective Pain Control in Patients with Cancer Pain: a Cross-sectional Survey in China. <i>Current Medical Science</i> , 2020, 40, 249-256.	0.7	8
63	Risk factors and clinical characteristics of tacrolimus-induced acute nephrotoxicity in children with nephrotic syndrome: a retrospective case-control study. <i>European Journal of Clinical Pharmacology</i> , 2020, 76, 277-284.	0.8	7
64	Factors associated with health insurance ownership among women of reproductive age: A multicountry study in sub-Saharan Africa. <i>PLoS ONE</i> , 2022, 17, e0264377.	1.1	7
65	Do Mothers with Lower Socioeconomic Status Contribute to the Rate of All-Cause Child Mortality in Kazakhstan?. <i>BioMed Research International</i> , 2018, 2018, 1-8.	0.9	5
66	SMS-based family planning communication and its association with modern contraception and maternal healthcare use in selected low-middle-income countries. <i>BMC Medical Informatics and Decision Making</i> , 2020, 20, 218.	1.5	5
67	A <sup>2</sup> aggregation behavior at interfaces with switchable wettability: a bioinspired perspective to understand amyloid formation. <i>Chemical Communications</i> , 2021, 57, 2641-2644.	2.2	5
68	Solvent-mediated engineering of copper-metalated acetylenic polymer scaffolds with enhanced photoelectrochemical performance. <i>Journal of Materials Chemistry A</i> , 2021, 9, 9729-9734.	5.2	5
69	A Retrospective Analysis on 1330 Adverse Event Reports of Qingkailing in China: Further Perception of Its Risks and Rational Use. <i>Current Medical Science</i> , 2018, 38, 1103-1108.	0.7	4
70	Computed tomography angiography for presence of systemic-to-pulmonary artery shunt in transpleural systemic arterial supply. <i>European Journal of Radiology</i> , 2020, 129, 109060.	1.2	4
71	Sociodemographic Inequalities in Health Insurance Ownership among Women in Selected Francophone Countries in Sub-Saharan Africa. <i>BioMed Research International</i> , 2021, 2021, 1-8.	0.9	4
72	Impact of childâ€™s migration on health status and health care utilization of older parents with chronic diseases left behind in China. <i>BMC Public Health</i> , 2021, 21, 1892.	1.2	4

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73	Status and Safety Signals of Cephalosporins in Children: A Spontaneous Reporting Database Study. <i>Frontiers in Pharmacology</i> , 2021, 12, 736618.	1.6	3
74	Innenr�cktitelbild: Deciphering a Nanocarbon�Based Artificial Peroxidase: Chemical Identification of the Catalytically Active and Substrate�Binding Sites on Graphene Quantum Dots ( <i>Angew. Chem.</i> 24/2015). <i>Angewandte Chemie</i> , 2015, 127, 7305-7305.	1.6	2
75	Thiophen�basierte konjugierte acetylenische Polymere mit dualen aktiven Zentren f�r effiziente Cokatalysator�freie photoelektrochemische Wasserreduktion im alkalischen Medium. <i>Angewandte Chemie</i> , 2021, 133, 19025-19031.	1.6	2
76	Precision of coaxial needle placement in computed tomography-guided transthoracic needle biopsy. <i>Experimental and Therapeutic Medicine</i> , 2013, 6, 1307-1311.	0.8	1
77	Social Participation as a Predictor of Morbid Thoughts and Suicidal Ideation among the Elderly Population: A Cross-Sectional Study on Four Low-Middle-Income Countries. <i>Psychiatry International</i> , 2021, 2, 169-179.	0.5	1
78	Correction: Health Perceptions and Misconceptions Regarding COVID-19 in China: Online Survey Study. <i>Journal of Medical Internet Research</i> , 2022, 24, e39493.	2.1	0