

Rui Hao

List of Publications by Year in descending order

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36
papers

4,185
citations

236925

25
h-index

315739

38
g-index

39
all docs

39
docs citations

39
times ranked

7800
citing authors

#	ARTICLE	IF	CITATIONS
1	Co single atoms and nanoparticles dispersed on N-doped carbon nanotube as high-performance catalysts for Zn-air batteries. <i>Rare Metals</i> , 2022, 41, 2055-2062.	7.1	27
2	Trimetallic Zeolitic imidazolate framework-derived Co nanoparticles@CoFe-nitrogen-doped porous carbon as bifunctional electrocatalysts for Zn-air battery. <i>Journal of Colloid and Interface Science</i> , 2021, 586, 621-629.	9.4	29
3	Redox of naphthalenediimide radicals in a 3D polyimide for stable Li-ion batteries. <i>Chemical Communications</i> , 2021, 57, 7810-7813.	4.1	26
4	Spatiotemporally super-resolved dendrites nucleation and early-stage growth dynamics in Zinc-ion batteries. <i>Cell Reports Physical Science</i> , 2021, 2, 100420.	5.6	19
5	Dextran Sulfate Lithium as Versatile Binder to Stabilize High-Voltage LiCoO ₂ to 4.6 V. <i>Advanced Energy Materials</i> , 2021, 11, 2101864.	19.5	80
6	Optical imaging of nanoscale electrochemical interfaces in energy applications. <i>Nano Energy</i> , 2021, 90, 106539.	16.0	19
7	Imaging Single Nanobubbles of H ₂ and O ₂ During the Overall Water Electrolysis with Single-Molecule Fluorescence Microscopy. <i>Analytical Chemistry</i> , 2020, 92, 3682-3688.	6.5	36
8	Single-Molecule Fluorescence Microscopy for Probing the Electrochemical Interface. <i>ACS Omega</i> , 2020, 5, 89-97.	3.5	37
9	Observing Transient Bipolar Electrochemical Coupling on Single Nanoparticles Translocating through a Nanopore. <i>Langmuir</i> , 2019, 35, 7180-7190.	3.5	20
10	Transient Electrocatalytic Water Oxidation in Single-Nanoparticle Collision. <i>Journal of Physical Chemistry C</i> , 2018, 122, 6447-6455.	3.1	17
11	Counting Single Redox Molecules in a Nanoscale Electrochemical Cell. <i>Analytical Chemistry</i> , 2018, 90, 13837-13841.	6.5	29
12	Imaging nanobubble nucleation and hydrogen spillover during electrocatalytic water splitting. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 5878-5883.	7.1	108
13	Electrodeposited Gold on Carbon-Fiber Microelectrodes for Enhancing Amperometric Detection of Dopamine Release from Pheochromocytoma Cells. <i>Analytical Chemistry</i> , 2018, 90, 10049-10055.	6.5	51
14	Collision and Oxidation of Silver Nanoparticles on a Gold Nanoband Electrode. <i>Journal of Physical Chemistry C</i> , 2017, 121, 23564-23573.	3.1	29
15	Imaging Dynamic Collision and Oxidation of Single Silver Nanoparticles at the Electrode/Solution Interface. <i>Journal of the American Chemical Society</i> , 2017, 139, 12274-12282.	13.7	89
16	Bipolar Electrochemistry on a Nanopore-Supported Platinum Nanoparticle Electrode. <i>Analytical Chemistry</i> , 2017, 89, 12652-12658.	6.5	24
17	Observing Electrochemical Dealloying by Single-Nanoparticle Collision. <i>Analytical Chemistry</i> , 2016, 88, 8728-8734.	6.5	18
18	Electrochemical Detection of Nanoparticle Collision by Reduction of Silver Chloride. <i>Journal of the Electrochemical Society</i> , 2016, 163, H3145-H3151.	2.9	15

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19	Nanopipette-Based Electroplated Nanoelectrodes. <i>Analytical Chemistry</i> , 2016, 88, 614-620.	6.5	29
20	High-Performance, Stretchable, Wire-Shaped Supercapacitors. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 618-622.	13.8	173
21	Janus ultrathin film from multi-level self-assembly at air-water interfaces. <i>Chemical Communications</i> , 2014, 50, 14843-14846.	4.1	45
22	Developing Fe ₃ O ₄ nanoparticles into an efficient multimodality imaging and therapeutic probe. <i>Nanoscale</i> , 2013, 5, 11954.	5.6	45
23	Synthesis of amino-functionalized graphene as metal-free catalyst and exploration of the roles of various nitrogen states in oxygen reduction reaction. <i>Nano Energy</i> , 2013, 2, 88-97.	16.0	426
24	Single-crystalline γ -Fe ₂ O ₃ nanostructures: controlled synthesis and high-index plane-enhanced photodegradation by visible light. <i>Journal of Materials Chemistry A</i> , 2013, 1, 6888.	10.3	96
25	PEG/lecithin liquid-crystalline composite hydrogels for quasi-zero-order combined release of hydrophilic and lipophilic drugs. <i>RSC Advances</i> , 2013, 3, 22927.	3.6	19
26	Exfoliated graphene-supported Pt and Pt-based alloys as electrocatalysts for direct methanol fuel cells. <i>Carbon</i> , 2013, 52, 595-604.	10.3	117
27	Iron phthalocyanine and nitrogen-doped graphene composite as a novel non-precious catalyst for the oxygen reduction reaction. <i>Nanoscale</i> , 2012, 4, 7326.	5.6	189
28	Hollow manganese phosphate nanoparticles as smart multifunctional probes for cancer cell targeted magnetic resonance imaging and drug delivery. <i>Nano Research</i> , 2012, 5, 679-694.	10.4	49
29	One-pot synthesis of hollow/porous Mn-based nanoparticles via a controlled ion transfer process. <i>Chemical Communications</i> , 2011, 47, 9095.	4.1	13
30	Facile Preparation of Nitrogen-Doped Few-Layer Graphene via Supercritical Reaction. <i>ACS Applied Materials & Interfaces</i> , 2011, 3, 2259-2264.	8.0	75
31	Liquid-phase exfoliation, functionalization and applications of graphene. <i>Nanoscale</i> , 2011, 3, 2118.	5.6	265
32	Synthesis, Functionalization, and Biomedical Applications of Multifunctional Magnetic Nanoparticles. <i>Advanced Materials</i> , 2010, 22, 2729-2742.	21.0	1,260
33	One-pot synthesis of Fe ₃ O ₄ nanoprisms with controlled electrochemical properties. <i>Chemical Communications</i> , 2010, 46, 3920.	4.1	140
34	Solvothermal-assisted exfoliation process to produce graphene with high yield and high quality. <i>Nano Research</i> , 2009, 2, 706-712.	10.4	224
35	Aqueous dispersions of TCNQ-anion-stabilized graphene sheets. <i>Chemical Communications</i> , 2008, , 6576.	4.1	272
36	Fabrication and Sensing Behavior of Cr ₂ O ₃ Nanofibers via In situ Gelation and Electrospinning. <i>Chemistry Letters</i> , 2006, 35, 1248-1249.	1.3	40