

Nina Heidary

List of Publications by Year in descending order

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28
papers

1,523
citations

304743

22
h-index

526287

27
g-index

28
all docs

28
docs citations

28
times ranked

1999
citing authors

#	ARTICLE	IF	CITATIONS
1	A unique iron-sulfur cluster is crucial for oxygen tolerance of a [NiFe]-hydrogenase. <i>Nature Chemical Biology</i> , 2011, 7, 310-318.	8.0	225
2	Solar-driven reduction of aqueous CO ₂ with a cobalt bis(terpyridine)-based photocathode. <i>Nature Catalysis</i> , 2019, 2, 354-365.	34.4	145
3	Electrochemical biomass valorization on gold-metal oxide nanoscale heterojunctions enables investigation of both catalyst and reaction dynamics with <i>operando</i> surface-enhanced Raman spectroscopy. <i>Chemical Science</i> , 2020, 11, 1798-1806.	7.4	120
4	Interfacing Formate Dehydrogenase with Metal Oxides for the Reversible Electrocatalysis and Solar-Driven Reduction of Carbon Dioxide. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 4601-4605.	13.8	115
5	Solar Water Splitting with a Hydrogenase Integrated in Photoelectrochemical Tandem Cells. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 10595-10599.	13.8	93
6	Probing CO ₂ Conversion Chemistry on Nanostructured Surfaces with <i>Operando</i> Vibrational Spectroscopy. <i>Nano Letters</i> , 2019, 19, 4817-4826.	9.1	86
7	Catalysis by design: development of a bifunctional water splitting catalyst through an <i>operando</i> measurement directed optimization cycle. <i>Chemical Science</i> , 2018, 9, 5322-5333.	7.4	73
8	Structure-Activity Relationships of Hierarchical Three-Dimensional Electrodes with Photosystem II for Semiartificial Photosynthesis. <i>Nano Letters</i> , 2019, 19, 1844-1850.	9.1	61
9	Advancing Techniques for Investigating the Enzyme-Electrode Interface. <i>Accounts of Chemical Research</i> , 2019, 52, 1439-1448.	15.6	59
10	Disparity of Cytochrome Utilization in Anodic and Cathodic Extracellular Electron Transfer Pathways of <i>Geobacter sulfurreducens</i> Biofilms. <i>Journal of the American Chemical Society</i> , 2020, 142, 5194-5203.	13.7	59
11	Rational incorporation of defects within metal-organic frameworks generates highly active electrocatalytic sites. <i>Chemical Science</i> , 2021, 12, 7324-7333.	7.4	50
12	Investigation of mixed-metal (oxy)fluorides as a new class of water oxidation electrocatalysts. <i>Chemical Science</i> , 2019, 10, 9209-9218.	7.4	47
13	Host-Guest Chemistry Meets Electrocatalysis: Cucurbit[6]uril on a Au Surface as a Hybrid System in CO ₂ Reduction. <i>ACS Catalysis</i> , 2020, 10, 751-761.	11.2	43
14	Electrochemically Triggered Dynamics within a Hybrid Metal-Organic Electrocatalyst. <i>Journal of the American Chemical Society</i> , 2020, 142, 12382-12393.	13.7	40
15	Role of the HoxZ Subunit in the Electron Transfer Pathway of the Membrane-Bound [NiFe]-Hydrogenase from <i>Ralstonia eutropha</i> Immobilized on Electrodes. <i>Journal of Physical Chemistry B</i> , 2011, 115, 10368-10374.	2.6	39
16	Interfacing Formate Dehydrogenase with Metal Oxides for the Reversible Electrocatalysis and Solar-Driven Reduction of Carbon Dioxide. <i>Angewandte Chemie</i> , 2019, 131, 4649-4653.	2.0	34
17	Artificial photosynthesis with metal and covalent organic frameworks (MOFs and COFs): challenges and prospects in fuel-forming electrocatalysis. <i>Physiologia Plantarum</i> , 2019, 166, 460-471.	5.2	31
18	Electrochemical and Infrared Spectroscopic Studies Provide Insight into Reactions of the NiFe Regulatory Hydrogenase from <i>Ralstonia eutropha</i> with O ₂ and CO. <i>Journal of Physical Chemistry B</i> , 2015, 119, 13807-13815.	2.6	30

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19	Orientation-Controlled Electrocatalytic Efficiency of an Adsorbed Oxygen-Tolerant Hydrogenase. PLoS ONE, 2015, 10, e0143101.	2.5	29
20	<i>Operando</i> vibrational spectroscopy for electrochemical biomass valorization. Chemical Communications, 2020, 56, 8726-8734.	4.1	28
21	Amorphous Iron-Manganese Oxyfluorides, Promising Catalysts for Oxygen Evolution Reaction under Acidic Media. ACS Applied Energy Materials, 2021, 4, 1173-1181.	5.1	25
22	In Situ Spectroelectrochemical Studies into the Formation and Stability of Robust Diazonium-Derived Interfaces on Gold Electrodes for the Immobilization of an Oxygen-Tolerant Hydrogenase. ACS Applied Materials & Interfaces, 2018, 10, 23380-23391.	8.0	23
23	<i>Operando</i> Raman probing of electrocatalytic biomass oxidation on gold nanoparticle surfaces. Chemical Communications, 2019, 55, 11996-11999.	4.1	23
24	A One-Pot Approach to Mesoporous Metal Oxide Ultrathin Film Electrodes Bearing One Metal Nanoparticle per Pore with Enhanced Electrocatalytic Properties. Chemistry of Materials, 2013, 25, 4645-4652.	6.7	18
25	Solar Water Splitting with a Hydrogenase Integrated in Photoelectrochemical Tandem Cells. Angewandte Chemie, 2018, 130, 10755-10759.	2.0	16
26	Electrografted Interfaces on Metal Oxide Electrodes for Enzyme Immobilization and Bioelectrocatalysis. ChemElectroChem, 2021, 8, 1329-1336.	3.4	6
27	Mechanochemical synthesis of cobalt/copper fluorophosphate generates a multifunctional electrocatalyst. Chemical Communications, 2020, 56, 9276-9279.	4.1	5
28	Host-guest Chemistry Meets Electrocatalysis: Cucurbit[6]uril on a Au Surface as Hybrid System in CO2 Reduction. , 0, , .		0