

Gaoqiang Yang

List of Publications by Year in descending order

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Version: 2024-02-01

41
papers

1,873
citations

257450

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330143

37
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42
docs citations

42
times ranked

998
citing authors

#	ARTICLE	IF	CITATIONS
1	Morphology engineering of iridium electrodes via modifying titanium substrates with controllable pillar structures for highly efficient oxygen evolution reaction. <i>Electrochimica Acta</i> , 2022, 405, 139797.	5.2	9
2	Optimization of catalyst-coated membranes for enhancing performance in proton exchange membrane electrolyzer cells. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 1155-1162.	7.1	22
3	Durability of anion exchange membrane water electrolyzers. <i>Energy and Environmental Science</i> , 2021, 14, 3393-3419.	30.8	213
4	High-speed characterization of two-phase flow and bubble dynamics in titanium felt porous media for hydrogen production. <i>Electrochimica Acta</i> , 2021, 370, 137751.	5.2	31
5	A simple convertible electrolyzer in membraneless and membrane-based modes for understanding water splitting mechanism. <i>Journal of Power Sources</i> , 2021, 487, 229353.	7.8	15
6	Constructing Ultrathin W-Doped NiFe Nanosheets via Facile Electrosynthesis as Bifunctional Electrocatalysts for Efficient Water Splitting. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 20070-20080.	8.0	54
7	Favorable morphology and electronic conductivity of functional sublayers for highly efficient water splitting electrodes. <i>Journal of Energy Storage</i> , 2021, 36, 102342.	8.1	7
8	Ultrathin platinum nanowire based electrodes for high-efficiency hydrogen generation in practical electrolyzer cells. <i>Chemical Engineering Journal</i> , 2021, 410, 128333.	12.7	40
9	W-induced morphological modification of NiFe layered double hydroxides as efficient electrocatalysts for overall water splitting. <i>Electrochimica Acta</i> , 2021, 395, 139199.	5.2	32
10	All-in-one bipolar electrode: A new concept for compact and efficient water electrolyzers. <i>Nano Energy</i> , 2021, 90, 106551.	16.0	17
11	Insights into the rapid two-phase transport dynamics in different structured porous transport layers of water electrolyzers through high-speed visualization. <i>Journal of Power Sources</i> , 2021, 516, 230641.	7.8	39
12	Impacts of catalyst nanolayers on water permeation and swelling of polymer electrolyte membranes. <i>Journal of Power Sources</i> , 2020, 448, 227582.	7.8	8
13	Role of electron pathway in dimensionally increasing water splitting reaction sites in liquid electrolytes. <i>Electrochimica Acta</i> , 2020, 362, 137113.	5.2	13
14	Experimental studies on the effects of sheet resistance and wettability of catalyst layer on electro-catalytic activities for oxygen evolution reaction in proton exchange membrane electrolysis cells. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 26595-26603.	7.1	14
15	Building Electron/Proton Nanohighways for Full Utilization of Water Splitting Catalysts. <i>Advanced Energy Materials</i> , 2020, 10, 1903871.	19.5	38
16	Electrocatalysts: Building Electron/Proton Nanohighways for Full Utilization of Water Splitting Catalysts (<i>Adv. Energy Mater.</i> 16/2020). <i>Advanced Energy Materials</i> , 2020, 10, 2070075.	19.5	3
17	In-situ investigation and modeling of electrochemical reactions with simultaneous oxygen and hydrogen microbubble evolutions in water electrolysis. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 28283-28293.	7.1	59
18	Direct thermal visualization of micro-scale hydrogen evolution reactions in proton exchange membrane electrolyzer cells. <i>Energy Conversion and Management</i> , 2019, 199, 111935.	9.2	15

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19	Performance improvement of proton exchange membrane electrolyzer cells by introducing in-plane transport enhancement layers. <i>Electrochimica Acta</i> , 2019, 316, 43-51.	5.2	56
20	Wettability effects of thin titanium liquid/gas diffusion layers in proton exchange membrane electrolyzer cells. <i>Electrochimica Acta</i> , 2019, 298, 704-708.	5.2	34
21	A novel PEMEC with 3D printed non-conductive bipolar plate for low-cost hydrogen production from water electrolysis. <i>Energy Conversion and Management</i> , 2019, 182, 108-116.	9.2	65
22	Fully printed and integrated electrolyzer cells with additive manufacturing for high-efficiency water splitting. <i>Applied Energy</i> , 2018, 215, 202-210.	10.1	69
23	Novel thin/tunable gas diffusion electrodes with ultra-low catalyst loading for hydrogen evolution reactions in proton exchange membrane electrolyzer cells. <i>Nano Energy</i> , 2018, 47, 434-441.	16.0	118
24	Direct Synthesis of Conformal Layered Protonated Titanate Nanoarray Coatings on Various Substrate Surfaces Boosted by Low-Temperature Microwave-Assisted Hydrothermal Synthesis. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 35164-35174.	8.0	10
25	In-situ investigation of bubble dynamics and two-phase flow in proton exchange membrane electrolyzer cells. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 11223-11233.	7.1	62
26	Bipolar plate development with additive manufacturing and protective coating for durable and high-efficiency hydrogen production. <i>Journal of Power Sources</i> , 2018, 396, 590-598.	7.8	74
27	Developing titanium micro/nano porous layers on planar thin/tunable LGDLs for high-efficiency hydrogen production. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 14618-14628.	7.1	52
28	Modeling of two-phase transport in proton exchange membrane electrolyzer cells for hydrogen energy. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 4478-4489.	7.1	81
29	Additive manufactured bipolar plate for high-efficiency hydrogen production in proton exchange membrane electrolyzer cells. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 14734-14740.	7.1	67
30	Investigation of titanium liquid/gas diffusion layers in proton exchange membrane electrolyzer cells. <i>International Journal of Green Energy</i> , 2017, 14, 162-170.	3.8	45
31	Performance Modeling and Current Mapping of Proton Exchange Membrane Electrolyzer Cells with Novel Thin/Tunable Liquid/Gas Diffusion Layers. <i>Electrochimica Acta</i> , 2017, 255, 405-416.	5.2	56
32	Study on corrosion migrations within catalyst-coated membranes of proton exchange membrane electrolyzer cells. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 27343-27349.	7.1	24
33	In situ investigation on ultrafast oxygen evolution reactions of water splitting in proton exchange membrane electrolyzer cells. <i>Journal of Materials Chemistry A</i> , 2017, 5, 18469-18475.	10.3	87
34	Thin film surface modifications of thin/tunable liquid/gas diffusion layers for high-efficiency proton exchange membrane electrolyzer cells. <i>Applied Energy</i> , 2017, 206, 983-990.	10.1	58
35	Investigation of Pore Shape Effects of Novel Thin LGDLs for High-Efficiency Hydrogen/Oxygen Generation and Energy Storage. , 2017, , .		2
36	An inkjet-printed capacitive sensor for water level or quality monitoring: investigated theoretically and experimentally. <i>Journal of Materials Chemistry A</i> , 2017, 5, 17841-17847.	10.3	24

#	ARTICLE	IF	CITATIONS
37	Investigation of thin/well-tunable liquid/gas diffusion layers exhibiting superior multifunctional performance in low-temperature electrolytic water splitting. Energy and Environmental Science, 2017, 10, 166-175.	30.8	154
38	Visualization on rapid and micro-scale dynamics of oxygen bubble evolution in PEMECs. , 2017, , .		2
39	Micro/nano manufacturing of novel multifunctional layers for hydrogen production from water splitting. , 2017, , .		2
40	Additive manufactured micro-sensor from silver nanoparticles for measuring shear stress and pressure. , 2017, , .		1
41	Thin liquid/gas diffusion layers for high-efficiency hydrogen production from water splitting. Applied Energy, 2016, 177, 817-822.	10.1	101