

Huawei Huang

List of Publications by Year in descending order

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54
papers

4,981
citations

109137

35
h-index

149479

56
g-index

57
all docs

57
docs citations

57
times ranked

6749
citing authors

#	ARTICLE	IF	CITATIONS
1	Activation of inert copper for significantly enhanced hydrogen evolution behaviors by trace ruthenium doping. <i>Nano Energy</i> , 2022, 92, 106763.	8.2	38
2	Surface conversion derived core-shell nanostructures of Co particles@RuCo alloy for superior hydrogen evolution in alkali and seawater. <i>Applied Catalysis B: Environmental</i> , 2022, 315, 121554.	10.8	29
3	Design of grain boundary enriched bimetallic borides for enhanced hydrogen evolution reaction. <i>Chemical Engineering Journal</i> , 2021, 405, 126977.	6.6	56
4	Energy Accumulation Enabling Fast Synthesis of Intercalated Graphite and Operando Decoupling for Lithium Storage. <i>Advanced Functional Materials</i> , 2021, 31, 2009801.	7.8	9
5	Carbon-enabled microwave chemistry: From interaction mechanisms to nanomaterial manufacturing. <i>Nano Energy</i> , 2021, 85, 106027.	8.2	50
6	Structure engineering defective and mass transfer-enhanced RuO ₂ nanosheets for proton exchange membrane water electrolyzer. <i>Nano Energy</i> , 2021, 88, 106276.	8.2	49
7	Recent advances in non-precious group metal-based catalysts for water electrolysis and beyond. <i>Journal of Materials Chemistry A</i> , 2021, 10, 50-88.	5.2	44
8	Rapid and energy-efficient microwave pyrolysis for high-yield production of highly-active bifunctional electrocatalysts for water splitting. <i>Energy and Environmental Science</i> , 2020, 13, 545-553.	15.6	169
9	Ultrafast construction of interfacial sites by wet chemical etching to enhance electrocatalytic oxygen evolution. <i>Nano Energy</i> , 2020, 69, 104367.	8.2	58
10	Ni, Co hydroxide triggers electrocatalytic production of high-purity benzoic acid over 400 mA cm ⁻² . <i>Energy and Environmental Science</i> , 2020, 13, 4990-4999.	15.6	125
11	Structural Design of Amorphous CoMoP _x with Abundant Active Sites and Synergistic Catalysis Effect for Effective Water Splitting. <i>Advanced Functional Materials</i> , 2020, 30, 2003889.	7.8	128
12	Ultrafast Construction of Oxygen-Containing Scaffold over Graphite for Trapping Ni ²⁺ into Single Atom Catalysts. <i>ACS Nano</i> , 2020, 14, 11662-11669.	7.3	20
13	Achieving Multiple and Tunable Ratios of Syngas to Meet Various Downstream Industrial Processes. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 3328-3335.	3.2	11
14	Low-Temperature Fast Production of Carbon and Acetic Acid Dual-Promoted Pd/C Catalysts. <i>Chemistry - A European Journal</i> , 2019, 25, 13683-13687.	1.7	3
15	Is It Appropriate to Use the Nafion Membrane in Electrocatalytic N ₂ Reduction?. <i>Small Methods</i> , 2019, 3, 1900474.	4.6	56
16	Activation of transition metal oxides by in-situ electro-regulated structure-reconstruction for ultra-efficient oxygen evolution. <i>Nano Energy</i> , 2019, 58, 778-785.	8.2	81
17	A Universal Converse Voltage Process for Triggering Transition Metal Hybrids In Situ Phase Reconstruction toward Ultrahigh-Rate Supercapacitors. <i>Advanced Materials</i> , 2019, 31, e1901241.	11.1	81
18	Microwave-Assisted Ultrafast Synthesis of Molybdenum Carbide Nanoparticles Grown on Carbon Matrix for Efficient Hydrogen Evolution Reaction. <i>Small Methods</i> , 2019, 3, 1900259.	4.6	46

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19	A Phase Transformation-Resistant Electrode Enabled by a MnO ₂ -Confined Effect for Enhanced Energy Storage. <i>Advanced Functional Materials</i> , 2019, 29, 1901342.	7.8	18
20	Phase controllable synthesis of Ni ²⁺ post-modified CoP nanowire for enhanced oxygen evolution. <i>Nano Energy</i> , 2019, 62, 136-143.	8.2	66
21	Electrochemically Driven Coordination Tuning of FeOOH Integrated on Carbon Fiber Paper for Enhanced Oxygen Evolution. <i>Small</i> , 2019, 15, e1901015.	5.2	46
22	Restructuring of Cu ₂ O to Cu ₂ O@Cu-Metal-Organic Frameworks for Selective Electrochemical Reduction of CO ₂ . <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 9904-9910.	4.0	174
23	Implanting CNT Forest onto Carbon Nanosheets as Multifunctional Hosts for High-Performance Lithium Metal Batteries. <i>Small Methods</i> , 2019, 3, 1800546.	4.6	34
24	Theoretical and Experimental Insights into the Effects of Oxygen-Containing Species within CNTs toward Triiodide Reduction. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 7527-7534.	3.2	10
25	Strategies and insights towards the intrinsic capacitive properties of MnO ₂ for supercapacitors: Challenges and perspectives. <i>Nano Energy</i> , 2019, 57, 459-472.	8.2	232
26	An electrocatalyst with anti-oxidized capability for overall water splitting. <i>Nano Research</i> , 2018, 11, 3411-3418.	5.8	16
27	Ultrahigh Rate and Long-Life Sodium-Ion Batteries Enabled by Engineered Surface and Near-Surface Reactions. <i>Advanced Materials</i> , 2018, 30, 1702486.	11.1	153
28	Co ion-intercalation amorphous and ultrathin microstructure for high-rate oxygen evolution. <i>Energy Storage Materials</i> , 2018, 10, 291-296.	9.5	14
29	An effective graphene confined strategy to construct active edge sites-enriched nanosheets with enhanced oxygen evolution. <i>Carbon</i> , 2018, 126, 437-442.	5.4	37
30	Phosphate Species up to 70% Mass Ratio for Enhanced Pseudocapacitive Properties. <i>Small</i> , 2018, 14, e1803811.	5.2	29
31	Surface-Confined Fabrication of Ultrathin Nickel Cobalt-Layered Double Hydroxide Nanosheets for High-Performance Supercapacitors. <i>Advanced Functional Materials</i> , 2018, 28, 1803272.	7.8	215
32	Graphite-graphene architecture stabilizing ultrafine Co ₃ O ₄ nanoparticles for superior oxygen evolution. <i>Carbon</i> , 2018, 140, 17-23.	5.4	20
33	Decoupling atomic-layer-deposition ultrafine RuO ₂ for high-efficiency and ultralong-life Li-O ₂ batteries. <i>Nano Energy</i> , 2017, 34, 399-407.	8.2	63
34	Iron-tuned super nickel phosphide microstructures with high activity for electrochemical overall water splitting. <i>Nano Energy</i> , 2017, 34, 472-480.	8.2	258
35	Ultrasensitive Iron-Triggered Nanosized Fe-CoOOH Integrated with Graphene for Highly Efficient Oxygen Evolution. <i>Advanced Energy Materials</i> , 2017, 7, 1602148.	10.2	216
36	Ultrafine MoO ₂ -Carbon Microstructures Enable Ultralong-Life Power-Type Sodium Ion Storage by Enhanced Pseudocapacitance. <i>Advanced Energy Materials</i> , 2017, 7, 1602880.	10.2	306

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37	A superhydrophilic α -nanoglue for stabilizing metal hydroxides onto carbon materials for high-energy and ultralong-life asymmetric supercapacitors. <i>Energy and Environmental Science</i> , 2017, 10, 1958-1965.	15.6	294
38	Supercapacitors: High-Stacking-Density, Superior-Roughness LDH Bridged with Vertically Aligned Graphene for High-Performance Asymmetric Supercapacitors (<i>Small</i> 37/2017). <i>Small</i> , 2017, 13, .	5.2	1
39	Sodium-Ion Batteries: Ultrafine MoO_2 -Carbon Microstructures Enable Ultralong-Life Power-Type Sodium Ion Storage by Enhanced Pseudocapacitance (<i>Adv. Energy Mater.</i> 15/2017). <i>Advanced Energy Materials</i> , 2017, 7, .	10.2	2
40	High-Stacking-Density, Superior-Roughness LDH Bridged with Vertically Aligned Graphene for High-Performance Asymmetric Supercapacitors. <i>Small</i> , 2017, 13, 1701288.	5.2	83
41	Interface Engineering of $\text{Ni}_3\text{N}/\text{Fe}_3\text{N}$ Heterostructure Supported on Carbon Fiber for Enhanced Water Oxidation. <i>Industrial & Engineering Chemistry Research</i> , 2017, 56, 14245-14251.	1.8	35
42	Ultrathin Nitrogen-Enriched Hybrid Carbon Nanosheets for Supercapacitors with Ultrahigh Rate Performance and High Energy Density. <i>ChemElectroChem</i> , 2017, 4, 369-375.	1.7	32
43	Electrocatalysts: Mass and Charge Transfer Coenhanced Oxygen Evolution Behaviors in CoFe-Layered Double Hydroxide Assembled on Graphene (<i>Adv. Mater. Interfaces</i> 7/2016). <i>Advanced Materials Interfaces</i> , 2016, 3, .	1.9	3
44	Mass and Charge Transfer Coenhanced Oxygen Evolution Behaviors in CoFe-Layered Double Hydroxide Assembled on Graphene. <i>Advanced Materials Interfaces</i> , 2016, 3, 1500782.	1.9	165
45	Strongly Coupled Architectures of Cobalt Phosphide Nanoparticles Assembled on Graphene as Bifunctional Electrocatalysts for Water Splitting. <i>ChemElectroChem</i> , 2016, 3, 681-681.	1.7	0
46	NiCo-layered double hydroxides vertically assembled on carbon fiber papers as binder-free high-active electrocatalysts for water oxidation. <i>Carbon</i> , 2016, 110, 1-7.	5.4	175
47	Bridging of Ultrathin NiCo_2O_4 Nanosheets and Graphene with Polyaniline: A Theoretical and Experimental Study. <i>Chemistry of Materials</i> , 2016, 28, 5855-5863.	3.2	116
48	Ultrasmall diiron phosphide nanodots anchored on graphene sheets with enhanced electrocatalytic activity for hydrogen production via high-efficiency water splitting. <i>Journal of Materials Chemistry A</i> , 2016, 4, 16028-16035.	5.2	44
49	Strongly Coupled Architectures of Cobalt Phosphide Nanoparticles Assembled on Graphene as Bifunctional Electrocatalysts for Water Splitting. <i>ChemElectroChem</i> , 2016, 3, 719-725.	1.7	82
50	CoMn Layered Double Hydroxides/Carbon Nanotubes Architectures as High-Performance Electrocatalysts for the Oxygen Evolution Reaction. <i>ChemElectroChem</i> , 2016, 3, 850-850.	1.7	4
51	CoMn Layered Double Hydroxides/Carbon Nanotubes Architectures as High-Performance Electrocatalysts for the Oxygen Evolution Reaction. <i>ChemElectroChem</i> , 2016, 3, 906-912.	1.7	78
52	Electroactive edge site-enriched nickel-cobalt sulfide into graphene frameworks for high-performance asymmetric supercapacitors. <i>Energy and Environmental Science</i> , 2016, 9, 1299-1307.	15.6	623
53	3D Porous N-Doped Graphene Frameworks Made of Interconnected Nanocages for Ultrahigh-Rate and Long-Life LiO_2 Batteries. <i>Advanced Functional Materials</i> , 2015, 25, 6913-6920.	7.8	231
54	Towards efficient electrocatalysts for oxygen reduction by doping cobalt into graphene-supported graphitic carbon nitride. <i>Journal of Materials Chemistry A</i> , 2015, 3, 19657-19661.	5.2	47