Shuai Hao

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/10041578/publications.pdf

Version: 2024-02-01

		81900	144013
58	5,651	39	57
papers	citations	h-index	g-index

58	58	58	6220
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Energyâ€Saving Electrolytic Hydrogen Generation: Ni₂P Nanoarray as a Highâ€Performance Nonâ€Nobleâ€Metal Electrocatalyst. Angewandte Chemie - International Edition, 2017, 56, 842-846.	13.8	668
2	Enhanced Electrocatalysis for Energyâ€Efficient Hydrogen Production over CoP Catalyst with Nonelectroactive Zn as a Promoter. Advanced Energy Materials, 2017, 7, 1700020.	19.5	519
3	Mn Doping of CoP Nanosheets Array: An Efficient Electrocatalyst for Hydrogen Evolution Reaction with Enhanced Activity at All pH Values. ACS Catalysis, 2017, 7, 98-102.	11.2	461
4	Highâ€Performance Electrolytic Oxygen Evolution in Neutral Media Catalyzed by a Cobalt Phosphate Nanoarray. Angewandte Chemie - International Edition, 2017, 56, 1064-1068.	13.8	348
5	In Situ Derived Coï£¿B Nanoarray: A Highâ€Efficiency and Durable 3D Bifunctional Electrocatalyst for Overall Alkaline Water Splitting. Small, 2017, 13, 1700805.	10.0	293
6	Selective phosphidation: an effective strategy toward CoP/CeO₂ interface engineering for superior alkaline hydrogen evolution electrocatalysis. Journal of Materials Chemistry A, 2018, 6, 1985-1990.	10.3	212
7	In situ formation of a 3D core/shell structured Ni₃N@Niâ€“Bi nanosheet array: an efficient non-noble-metal bifunctional electrocatalyst toward full water splitting under near-neutral conditions. Journal of Materials Chemistry A, 2017, 5, 7806-7810.	10.3	196
8	Copperâ€Nitride Nanowires Array: An Efficient Dualâ€Functional Catalyst Electrode for Sensitive and Selective Nonâ€Enzymatic Glucose and Hydrogen Peroxide Sensing. Chemistry - A European Journal, 2017, 23, 4986-4989.	3.3	140
9	Energyâ€Saving Electrolytic Hydrogen Generation: Ni₂P Nanoarray as a Highâ€Performance Nonâ€Nobleâ€Metal Electrocatalyst. Angewandte Chemie, 2017, 129, 860-864.	2.0	140
10	Integrating natural biomass electro-oxidation and hydrogen evolution: using a porous Fe-doped CoP nanosheet array as a bifunctional catalyst. Chemical Communications, 2017, 53, 5710-5713.	4.1	138
11	NiCoP Nanoarray: A Superior Pseudocapacitor Electrode with High Areal Capacitance. Chemistry - A European Journal, 2017, 23, 4435-4441.	3.3	134
12	An amorphous FeMoS₄ nanorod array toward efficient hydrogen evolution electrocatalysis under neutral conditions. Chemical Communications, 2017, 53, 9000-9003.	4.1	124
13	Well-aligned MXene/chitosan films with humidity response for high-performance electromagnetic interference shielding. Carbohydrate Polymers, 2020, 243, 116467.	10.2	118
14	Fe₃Nâ€Co₂N Nanowires Array: A Nonâ€Nobleâ€Metal Bifunctional Catalyst Electrode for Highâ€Performance Glucose Oxidation and H₂O₂ Reduction toward Nonâ€Enzymatic Sensing Applications. Chemistry - A European Journal, 2017, 23, 5214-5218.	3.3	117
15	Energy-efficient electrolytic hydrogen generation using a Cu₃P nanoarray as a bifunctional catalyst for hydrazine oxidation and water reduction. Inorganic Chemistry Frontiers, 2017, 4, 420-423.	6.0	101
16	Ternary NiCoP nanosheet array on a Ti mesh: a high-performance electrochemical sensor for glucose detection. Chemical Communications, 2016, 52, 14438-14441.	4.1	98
17	Bimetallic Nickelâ€Substituted Cobaltâ€Borate Nanowire Array: An Earthâ€Abundant Water Oxidation Electrocatalyst with Superior Activity and Durability at Near Neutral pH. Small, 2017, 13, 1700394.	10.0	95
18	N-Doped carbon dots: a metal-free co-catalyst on hematite nanorod arrays toward efficient photoelectrochemical water oxidation. Inorganic Chemistry Frontiers, 2017, 4, 537-540.	6.0	86

#	Article	IF	Citations
19	In situ electrochemical surface derivation of cobalt phosphate from a Co(CO₃)_{0.5}(OH)Â·0.11H₂O nanoarray for efficient water oxidation in neutral aqueous solution. Nanoscale, 2017, 9, 3752-3756.	5.6	82
20	A nickel-borate nanoarray: a highly active 3D oxygen-evolving catalyst electrode operating in near-neutral water. Chemical Communications, 2017, 53, 3070-3073.	4.1	79
21	A cobalt-borate nanosheet array: an efficient and durable non-noble-metal electrocatalyst for water oxidation at near neutral pH. Journal of Materials Chemistry A, 2017, 5, 7305-7308.	10.3	79
22	A self-supported amorphous Niâ€“P alloy on a CuO nanowire array: an efficient 3D electrode catalyst for water splitting in alkaline media. Chemical Communications, 2018, 54, 2393-2396.	4.1	77
23	Dual functions of gradient phosphate polyanion doping on improving the electrochemical performance of Ni-rich LiNi0.6Co0.2Mn0.2O2 cathode at high cut-off voltage and high temperature. Electrochimica Acta, 2019, 299, 971-978.	5.2	76
24	Hydrazine-assisted electrolytic hydrogen production: CoS₂nanoarray as a superior bifunctional electrocatalyst. New Journal of Chemistry, 2017, 41, 4754-4757.	2.8	70
25	Facilitating Active Species Generation by Amorphous NiFeâ€B_i Layer Formation on NiFeâ€LDH Nanoarray for Efficient Electrocatalytic Oxygen Evolution at Alkaline pH. Chemistry - A European Journal, 2017, 23, 11499-11503.	3.3	69
26	An anisotropic layer-by-layer carbon nanotube/boron nitride/rubber composite and its application in electromagnetic shielding. Nanoscale, 2020, 12, 7782-7791.	5.6	68
27	Multifunctional Integration of Double-Shell Hybrid Nanostructure for Alleviating Surface Degradation of LiNi_{0.8}Co_{0.1}Mn_{0.1}O₂ Cathode for Advanced Lithium-Ion Batteries at High Cutoff Voltage. ACS Applied Materials & Interfaces, 2020, 12, 9268-9276.	8.0	66
28	Highâ€Performance Electrolytic Oxygen Evolution in Neutral Media Catalyzed by a Cobalt Phosphate Nanoarray. Angewandte Chemie, 2017, 129, 1084-1088.	2.0	65
29	NiS2 nanosheet array: A high-active bifunctional electrocatalyst for hydrazine oxidation and water reduction toward energy-efficient hydrogen production. Materials Today Energy, 2017, 3, 9-14.	4.7	63
30	Enhancing the Electrochemical Performance of Ni-Rich Layered Oxide Cathodes by Combination of the Gradient Doping and Dual-Conductive Layers Coating. ACS Applied Energy Materials, 2019, 2, 3120-3130.	5.1	59
31	Coreâ€“shell CoFe₂O₄@Coâ€“Feâ€“Bi nanoarray: a surface-amorphization water oxidation catalyst operating at near-neutral pH. Nanoscale, 2017, 9, 7714-7718.	5.6	55
32	High-Efficiency and Durable Water Oxidation under Mild pH Conditions: An Iron Phosphateâ€“Borate Nanosheet Array as a Non-Noble-Metal Catalyst Electrode. Inorganic Chemistry, 2017, 56, 3131-3135.	4.0	51
33	Surface Amorphization: A Simple and Effective Strategy toward Boosting the Electrocatalytic Activity for Alkaline Water Oxidation. ACS Sustainable Chemistry and Engineering, 2017, 5, 8518-8522.	6.7	51
34	In situ development of amorphous Mnâ€“Coâ€“P shell on MnCo₂O₄ nanowire array for superior oxygen evolution electrocatalysis in alkaline media. Chemical Communications, 2018, 54, 1077-1080.	4.1	49
35	Selfâ€Templating Construction of Hollow Amorphous CoMoS₄ Nanotube Array towards Efficient Hydrogen Evolution Electrocatalysis at Neutral pH. Chemistry - A European Journal, 2017, 23, 12718-12723.	3.3	48
36	A nickelâ€“borateâ€“phosphate nanoarray for efficient and durable water oxidation under benign conditions. Inorganic Chemistry Frontiers, 2017, 4, 840-844.	6.0	46

#	Article	IF	Citations
37	Topotactic Conversion of Î±-Fe₂O₃ Nanowires into FeP as a Superior Fluorosensor for Nucleic Acid Detection: Insights from Experiment and Theory. Analytical Chemistry, 2017, 89, 2191-2195.	6.5	44
38	Threeâ€Dimensional Nickelâ€“Borate Nanosheets Array for Efficient Oxygen Evolution at Nearâ€Neutral pH. Chemistry - A European Journal, 2017, 23, 6959-6963.	3.3	43
39	Enhancing surface stability of LiNi0.8Co0.1Mn0.1O2 cathode with hybrid core-shell nanostructure induced by high-valent titanium ions for Li-ion batteries at high cut-off voltage. Journal of Alloys and Compounds, 2020, 834, 155099.	5.5	41
40	High sensitivity of multi-sensing materials based on reduced graphene oxide and natural rubber: The synergy between filler segregation and macro-porous morphology. Composites Science and Technology, 2021, 205, 108689.	7.8	41
41	Water splitting in near-neutral media: using an Mnâ€“Co-based nanowire array as a complementary electrocatalyst. Journal of Materials Chemistry A, 2017, 5, 12091-12095.	10.3	36
42	Remarkable enhancement of the alkaline oxygen evolution reaction activity of NiCo₂O₄ by an amorphous borate shell. Inorganic Chemistry Frontiers, 2017, 4, 1546-1550.	6.0	34
43	Coreâ€“Shellâ€Structured NiS₂@Niâ€B_i Nanoarray for Efficient Water Oxidation at Nearâ€Neutral pH. ChemCatChem, 2017, 9, 3138-3143.	3.7	32
44	Co₃O₄ Nanowire Arrays toward Superior Water Oxidation Electrocatalysis in Alkaline Media by Surface Amorphization. Chemistry - A European Journal, 2017, 23, 15601-15606.	3.3	29
45	Constructing 3D Graphene Network in Rubber Nanocomposite via Liquid-Phase Redispersion and Self-Assembly. ACS Applied Materials & Interfaces, 2020, 12, 9682-9692.	8.0	29
46	Electrochemical Hydrazine Oxidation Catalyzed by Iron Phosphide Nanosheets Array toward Energyâ€Efficient Electrolytic Hydrogen Production from Water. ChemistrySelect, 2017, 2, 3401-3407.	1.5	28
47	Simultaneous reduction and surface functionalization of graphene oxide by cystamine dihydrochloride for rubber composites. Composites Part A: Applied Science and Manufacturing, 2019, 122, 18-26.	7.6	23
48	Efficient alkaline hydrogen evolution electrocatalysis enabled by an amorphous Coâ€“Moâ€“B film. Dalton Transactions, 2018, 47, 7640-7643.	3.3	20
49	Full water splitting by a nanoporous CeO₂ nanowire array under alkaline conditions. Inorganic Chemistry Frontiers, 2020, 7, 2533-2537.	6.0	20
50	Self-supported spinel FeCo2O4nanowire array: an efficient non-noble-metal catalyst for the hydrolysis of NaBH4toward on-demand hydrogen generation. Nanotechnology, 2016, 27, 46LT03.	2.6	18
51	Replacing oxygen evolution with sodium sulfide electro-oxidation toward energy-efficient electrochemical hydrogen production: Using cobalt phosphide nanoarray as a bifunctional catalyst. International Journal of Hydrogen Energy, 2017, 42, 26289-26295.	7.1	15
52	Simultaneous reduction and surface functionalization of graphene oxide and the application for rubber composites. Journal of Applied Polymer Science, 2019, 136, 47375.	2.6	12
53	Long-chain fluorocarbon-driven hybrid solid polymer electrolyte for lithium metal batteries. Journal of Materials Chemistry A, 2022, 10, 4881-4888.	10.3	12
54	Bistrifluoroacetamideâ€Activated Doubleâ€Layer Composite Solid Electrolyte for Dendriteâ€Free Lithium Metal Battery. Advanced Materials Interfaces, 2022, 9, .	3.7	10

#	Article	IF	Citations
55	Coreâ€“Shell NiO@Niâ€P Hybrid Nanosheet Array for Synergistically Enhanced Oxygen Evolution Electrocatalysis: Experimental and Theoretical Insights. Chemistry - an Asian Journal, 2018, 13, 944-949.	3.3	9
56	Optimizing surface residual alkali and enhancing electrochemical performance of LiNi_{0.8}Co_{0.15}Al_{0.05}O₂ cathode by LiH₂PO₄. Nanotechnology, 2022, 33, 045404.	2.6	7
57	Dual functions of zirconium metaphosphate modified high-nickel layered oxide cathode material with enhanced electrochemical performance. Journal of Colloid and Interface Science, 2022, 615, 554-562.	9.4	7
58	Determination of Trace lead (II) by Resonance Light Scattering Based on Pb (II)-KI-MG System. IOP Conference Series: Earth and Environmental Science, 2018, 111, 012022.	0.3	0