

Modulation of Molecular Spatial Distribution and Chemical States of Graphene Nanosheets for Ethanol Electrooxidation

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Cyanogel auto-reduction induced synthesis of PdCo nanocubes on carbon nanobowls: a highly active electrocatalyst for ethanol electrooxidation. <i>Nanoscale</i> , 2019, 11, 13477-13483.	2.8	27
2	Methanol-assisted synthesis of Ni ³⁺ -doped ultrathin NiZn-LDH nanomeshes for boosted alkaline water splitting. <i>Dalton Transactions</i> , 2020, 49, 1325-1333.	1.6	27
3	Amorphous/Crystalline Heterostructured Cobalt–Vanadium–Iron (Oxy)hydroxides for Highly Efficient Oxygen Evolution Reaction. <i>Advanced Energy Materials</i> , 2020, 10, 2002215.	10.2	198
4	Rational design of Co-S-P nanosheet arrays as bifunctional electrocatalysts for both ethanol oxidation reaction and hydrogen evolution reaction. <i>Inorganic Chemistry Frontiers</i> , 2020, 7, 4498-4506.	3.0	20
5	Single-Atom In-Doped Subnanometer Pt Nanowires for Simultaneous Hydrogen Generation and Biomass Upgrading. <i>Advanced Functional Materials</i> , 2020, 30, 2004310.	7.8	77
6	Vacancy-Rich Ni(OH) ₂ Drives the Electrooxidation of Amino C–N Bonds to Nitrile C=N Bonds. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 16974-16981.	7.2	91
7	Vacancy-Rich Ni(OH) ₂ Drives the Electrooxidation of Amino C–N Bonds to Nitrile C=N Bonds. <i>Angewandte Chemie</i> , 2020, 132, 17122-17129.	1.6	21
8	Interfacial Engineering of MoO ₂ –FeP Heterojunction for Highly Efficient Hydrogen Evolution Coupled with Biomass Electrooxidation. <i>Advanced Materials</i> , 2020, 32, e2000455.	11.1	401
9	2D CoOOH Sheet-Encapsulated Ni ₂ P into Tubular Arrays Realizing 1000 A cm ² -Level-Current-Density Hydrogen Evolution Over 100 h in Neutral Water. <i>Nano-Micro Letters</i> , 2020, 12, 140.	14.4	83
10	2D Hybrid Superlattice-Based On-Chip Electrocatalytic Microdevice for <i>in Situ</i> Revealing Enhanced Catalytic Activity. <i>ACS Nano</i> , 2020, 14, 1635-1644.	7.3	36
11	Anodic hydrazine electrooxidation boosted overall water electrolysis by bifunctional porous nickel phosphide nanotubes on nickel foam. <i>Nanoscale</i> , 2020, 12, 11526-11535.	2.8	37
12	On-chip electrocatalytic microdevice: an emerging platform for expanding the insight into electrochemical processes. <i>Chemical Society Reviews</i> , 2020, 49, 2916-2936.	18.7	68
13	Hybrid water electrolysis: Replacing oxygen evolution reaction for energy-efficient hydrogen production and beyond. <i>Materials Reports Energy</i> , 2021, 1, 100004.	1.7	27
14	Synergetic enhancement of surface reactions and charge separation over holey C ₃ N ₄ /TiO ₂ 2D heterojunctions. <i>Science Bulletin</i> , 2021, 66, 275-283.	4.3	61
15	Convenient synthesis of polymetallic metal–organic gels for efficient methanol electro-oxidation. <i>Inorganic Chemistry Frontiers</i> , 2021, 8, 927-933.	3.0	11
16	Electron cloud migration effect-induced lithiophobicity/lithiophilicity transformation for dendrite-free lithium metal anodes. <i>Nanoscale</i> , 2021, 13, 3027-3035.	2.8	8
17	Solar-assisted co-electrolysis of glycerol and water for concurrent production of formic acid and hydrogen. <i>Journal of Materials Chemistry A</i> , 2021, 9, 19975-19983.	5.2	18
18	Single WTe ₂ Sheet-Based Electrocatalytic Microdevice for Directly Detecting Enhanced Activity of Doped Electronegative Anions. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 14302-14311.	4.0	15

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19	Co ₃ P@Co ₃ O ₄ Nanocomposite on Cobalt Foam as Efficient Bifunctional Electrocatalysts for Hydrazine-Assisted Hydrogen Production. ACS Sustainable Chemistry and Engineering, 2021, 9, 4688-4701.	3.2	45
20	A universal strategy for the synthesis of porous two-dimensional transition metal oxide nanosheets based on chemical topology transformation. Science China Materials, 2021, 64, 2477-2485.	3.5	5
21	Hairy sphere-like Ni ₉ S ₈ /CuS/Cu ₂ O composites grown on nickel foam as bifunctional electrocatalysts for hydrogen evolution and urea electrooxidation. International Journal of Hydrogen Energy, 2021, 46, 20950-20960.	3.8	44
22	Multi-scale regulation in S, N co-incorporated carbon encapsulated Fe-doped Co ₉ S ₈ achieving efficient water oxidation with low overpotential. Nano Research, 2022, 15, 872-880.	5.8	31
23	One Nanometer PtIr Nanowires as High-Efficiency Bifunctional Catalysts for Electrosynthesis of Ethanol into High Value-Added Multicarbon Compound Coupled with Hydrogen Production. Journal of the American Chemical Society, 2021, 143, 10822-10827.	6.6	95
24	In Situ Phase Separation into Coupled Interfaces for Promoting CO ₂ Electroreduction to Formate over a Wide Potential Window. Angewandte Chemie, 2021, 133, 23122-23129.	1.6	11
25	Platinum Modulates Redox Properties and 5-Hydroxymethylfurfural Adsorption Kinetics of Ni(OH) ₂ for Biomass Upgrading. Angewandte Chemie - International Edition, 2021, 60, 22908-22914.	7.2	154
26	Simultaneous hydrogen evolution and ethanol oxidation in alkaline medium via a self-supported bifunctional electrocatalyst of Ni-Fe phosphide/Ni foam. Applied Surface Science, 2021, 561, 150080.	3.1	27
27	Electronic Structure Modulation of Non-Noble-Metal-Based Catalysts for Biomass Electrooxidation Reactions. Small Structures, 2021, 2, 2100095.	6.9	28
28	In Situ Phase Separation into Coupled Interfaces for Promoting CO ₂ Electroreduction to Formate over a Wide Potential Window. Angewandte Chemie - International Edition, 2021, 60, 22940-22947.	7.2	67
29	Platinum Modulates Redox Properties and 5-Hydroxymethylfurfural Adsorption Kinetics of Ni(OH) ₂ for Biomass Upgrading. Angewandte Chemie, 2021, 133, 23090-23096.	1.6	8
30	Palladium cobalt alloy encapsulated in carbon nanofibers as bifunctional electrocatalyst for high-efficiency overall hydrazine splitting. Journal of Colloid and Interface Science, 2021, 601, 495-504.	5.0	12
31	Simultaneously boosting hydrogen production and ethanol upgrading using a highly-efficient hollow needle-like copper cobalt sulfide as a bifunctional electrocatalyst. Journal of Colloid and Interface Science, 2021, 602, 325-333.	5.0	63
32	Fe-doping induced localized amorphization in ultrathin Ni(OH) ₂ nanomesh for superior oxygen evolution reaction catalysis. Journal of Materials Chemistry A, 2021, 9, 14372-14380.	5.2	44
33	Structural Optimization of Metal Oxyhalide for CO ₂ Reduction with High Selectivity and Current Density. Chinese Journal of Chemistry, 2020, 38, 1752-1756.	2.6	8
34	Ultrahigh Current Density and Long-Term Durability Electrocatalysts for Water Splitting. Small, 2022, 18, e2104513.	5.2	49
35	A dotted nanowire arrayed by 5 nm sized palladium and nickel composite nanoparticles showing significant electrocatalytic activity towards ethanol oxidation reaction (EOR). International Journal of Hydrogen Energy, 2021, 47, 276-276.	3.8	1
36	Schottky Heterojunction Nanosheet Array Achieving High Current Density Oxygen Evolution for Industrial Water Splitting Electrolyzers. Advanced Energy Materials, 2021, 11, 2102353.	10.2	177

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37	Exploring Structure-function Relationship of Two-dimensional Electrocatalysts with Synchrotron Radiation X-ray Absorption Spectrum. <i>Current Chinese Science</i> , 2021, 1, 22-42.	0.2	2
38	Recent Advances on Electrolysis for Simultaneous Generation of Valuable Chemicals at both Anode and Cathode. <i>Advanced Energy Materials</i> , 2021, 11, 2102292.	10.2	129
39	Boosting Nitrogen Reduction Reaction via Electronic Coupling of Atomically Dispersed Bismuth with Titanium Nitride Nanorods. <i>Advanced Science</i> , 2022, 9, e2104245.	5.6	44
40	Recent advances in the pre-oxidation process in electrocatalytic urea oxidation reactions. <i>Chemical Communications</i> , 2022, 58, 2430-2442.	2.2	71
41	Construction of Co ₃ O ₄ -Ni ₃ S ₄ -rGO ternary hybrid as an efficient nanoelectrocatalyst for methanol and ethanol oxidation in alkaline media. <i>Journal of Alloys and Compounds</i> , 2022, 900, 163408.	2.8	33
42	Hybrid Water Electrolysis: A New Sustainable Avenue for Energy-Saving Hydrogen Production. , 2022, 1, 100002.		38
43	Room-temperature chemical looping hydrogen production mediated by electrochemically induced heterogeneous Cu(I)/Cu(II) redox. <i>Chem Catalysis</i> , 2021, 1, 1493-1504.	2.9	20
44	In Situ Halogen Leaching Regulates Multiple Sites on Tandem Catalysts for Efficient CO ₂ Electroreduction to C ₂ + Products. <i>Angewandte Chemie</i> , 2022, 134, .	1.6	9
45	In Situ Halogen Leaching Regulates Multiple Sites on Tandem Catalysts for Efficient CO ₂ Electroreduction to C ₂ + Products. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	67
46	Trimetallic RhNiFe Phosphide Nanosheets for Electrochemical Reforming of Ethanol. <i>ACS Applied Nano Materials</i> , 2022, 5, 4948-4957.	2.4	9
47	Electrochemical reforming of ethanol with acetate Co-Production on nickel cobalt selenide nanoparticles. <i>Chemical Engineering Journal</i> , 2022, 440, 135817.	6.6	19
48	Pathway Manipulation via Ni, Co, and V Ternary Synergism to Realize High Efficiency for Urea Electrocatalytic Oxidation. <i>ACS Catalysis</i> , 2022, 12, 569-579.	5.5	101
49	High Entropy Alloy Electrocatalytic Electrode toward Alkaline Glycerol Valorization Coupling with Acidic Hydrogen Production. <i>Journal of the American Chemical Society</i> , 2022, 144, 7224-7235.	6.6	156
50	Interfacial and Vacancies Engineering of Copper Nickel Sulfide for Enhanced Oxygen Reduction and Alcohols Oxidation Activity. <i>Energy and Environmental Materials</i> , 2023, 6, .	7.3	8
51	Active and conductive layer stacked superlattices for highly selective CO ₂ electroreduction. <i>Nature Communications</i> , 2022, 13, 2039.	5.8	69
52	Copper-doped nickel oxyhydroxide for efficient electrocatalytic ethanol oxidation. <i>Chinese Journal of Catalysis</i> , 2022, 43, 1478-1484.	6.9	23
53	Structural Reconstruction of Catalysts in Electroreduction Reaction: Identifying, Understanding, and Manipulating. <i>Advanced Materials</i> , 2022, 34, e2110699.	11.1	16
54	Bifunctional Mn-doped CoSe ₂ nanonetworks electrode for hybrid alkali/acid electrolytic H ₂ generation and glycerol upgrading. <i>Journal of Energy Chemistry</i> , 2022, 72, 424-431.	7.1	24

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55	Triggering Lattice Oxygen Activation of Single-Atomic Mo Sites Anchored on Ni-Fe Oxyhydroxides Nanoarrays for Electrochemical Water Oxidation. <i>Advanced Materials</i> , 2022, 34, e2202523.	11.1	103
56	Engineering a Local Free Water Enriched Microenvironment for Surpassing Platinum Hydrogen Evolution Activity. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	45
57	Carbon coated CoO plates/3D nickel foam: An efficient and readily recyclable catalyst for peroxymonosulfate activation. <i>Separation and Purification Technology</i> , 2022, 297, 121400.	3.9	8
58	Engineering a Local Free Water Enriched Microenvironment for Surpassing Platinum Hydrogen Evolution Activity. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	45
59	In Situ Chalcogen Leaching Manipulates Reactant Interface toward Efficient Amine Electrooxidation. <i>ACS Nano</i> , 2022, 16, 9572-9582.	7.3	31
60	Engineering a Local Free Water Enriched Microenvironment for Surpassing Platinum Hydrogen Evolution Activity. <i>Angewandte Chemie</i> , 2022, 134, .	1.6	8
61	Defect-Rich and Single-Crystalline PdCu Ultrathin Nanowires Promoting Ethanol Oxidation Electrocatalysis. <i>ACS Applied Energy Materials</i> , 2022, 5, 10233-10239.	2.5	6
62	Multiphase PdCu nanoparticles with improved C1 selectivity in ethanol oxidation. <i>Inorganic Chemistry Frontiers</i> , 2022, 9, 4714-4721.	3.0	4
63	Assembly of trimetallic palladium-silver-copper nanosheets for efficient C2 alcohol electrooxidation. <i>Science China Materials</i> , 2023, 66, 150-159.	3.5	10
64	Deciphering the Structure Activity Relationship of Nickel Containing Materials towards Electrocatalytic Oxidation of Urea. <i>Journal of the Electrochemical Society</i> , 2022, 169, 094501.	1.3	2
65	Chemical-vapor-deposition-grown 2D transition metal dichalcogenides: A generalist model for engineering electrocatalytic hydrogen evolution. <i>Nano Research</i> , 2023, 16, 101-116.	5.8	4
66	Defect engineering of electrocatalysts for organic synthesis. <i>Nano Research</i> , 2023, 16, 1890-1912.	5.8	13
67	Defect engineering of Ni ₃ S ₂ nanosheets with highly active (110) facets toward efficient electrochemical biomass valorization. <i>Journal of Materials Chemistry A</i> , 2022, 10, 23244-23253.	5.2	10
68	Superior bifunctional cobalt/nitrogen-codoped carbon nanosheet arrays on copper foam enable stable energy-saving hydrogen production accompanied with glucose upgrading. <i>Green Chemistry</i> , 2022, 24, 6544-6555.	4.6	20
69	Recent Advances in Upgrading of Low-Cost Oxidants to Value-Added Products by Electrocatalytic Reduction Reaction. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	20
70	Bias-free solar hydrogen production at 19.8% cm^{-2} using perovskite photocathode and lignocellulosic biomass. <i>Nature Communications</i> , 2022, 13, .	5.8	33
71	Light, Heat and Electricity Integrated Energy Conversion System: Photothermal-Assisted Co-Electrolysis of CO ₂ and Methanol. <i>Angewandte Chemie</i> , 0, .	1.6	3
72	Light, Heat and Electricity Integrated Energy Conversion System: Photothermal-Assisted Co-Electrolysis of CO ₂ and Methanol. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	27

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73	Nanopore-rich NiFe LDH targets the formation of the high-valent nickel for enhanced oxygen evolution reaction. <i>Nano Research</i> , 2023, 16, 2286-2293.	5.8	13
74	On-Chip Microdevice Unveils Reactant Enrichment Effect Dominated Electrocatalysis Activity in Molecular-Linked Catalysts. <i>Nano Letters</i> , 2022, 22, 10154-10162.	4.5	3
75	Operando Reconstruction toward Dual-Cation Defects Co-Containing NiFe Oxyhydroxide for Ultralow Energy Consumption Industrial Water Splitting Electrolyzer. <i>Advanced Energy Materials</i> , 2023, 13, .	10.2	20
76	Boosting ethanol oxidation by NiOOH-CuO nano-heterostructure for energy-saving hydrogen production and biomass upgrading. <i>Applied Catalysis B: Environmental</i> , 2023, 325, 122388.	10.8	49
77	Thermal Shrinkage Engineering Enables Electrocatalysts for Stable Hydrogen Evolution at 2000 A cm^{-2} . <i>Advanced Functional Materials</i> , 2023, 33, .	7.8	9
78	Atomic phosphorus induces tunable lattice strain in high entropy alloys and boosts alkaline water splitting. <i>Nano Energy</i> , 2023, 110, 108380.	8.2	18
79	Electrochemical Biomass Upgrading Coupled with Hydrogen Production under Industrial-Level Current Density. <i>Advanced Materials</i> , 2023, 35, .	11.1	43
80	Coupling Hydrazine Oxidation with Seawater Electrolysis for Energy-Saving Hydrogen Production over Bifunctional CoNC Nanoarray Electrocatalysts. <i>Small</i> , 2023, 19, .	5.2	20
81	Recent progress in synergistic electrocatalysis for generation of valuable products based on water cycle. <i>Nano Research</i> , 2023, 16, 6444-6476.	5.8	6
82	Energy-efficient hydrogen production coupled with simultaneous electrosynthesis of acetate over a mesoporous OsRh film. <i>Journal of Materials Chemistry A</i> , 2023, 11, 8922-8928.	5.2	18
83	Amorphous/crystalline heterostructure of NiFe (oxy)hydroxides for efficient oxygen evolution and urea oxidation. <i>Chemical Communications</i> , 2023, 59, 4620-4623.	2.2	3
84	Lattice-disordered high-entropy metal hydroxide nanosheets as efficient precatalysts for bifunctional electro-oxidation. <i>Journal of Colloid and Interface Science</i> , 2023, 642, 41-52.	5.0	19
85	Inhibitor and Activator: Dual Role of Subsurface Sulfide Enables Selective and Efficient Electro-Oxidation of Methanol to Formate on CuS@CuO Core-Shell Nanosheet Arrays. <i>Small</i> , 2023, 19, .	5.2	11
86	Constructing Built-in Electric Field in Heterogeneous Nanowire Arrays for Efficient Overall Water Electrolysis. <i>Angewandte Chemie - International Edition</i> , 2023, 62, .	7.2	55
87	Constructing Built-in Electric Field in Heterogeneous Nanowire Arrays for Efficient Overall Water Electrolysis. <i>Angewandte Chemie</i> , 2023, 135, .	1.6	12
98	Recent progress on 2D material-based nanoarchitectures for small molecule electro-oxidation. <i>Materials Chemistry Frontiers</i> , 0, , .	3.2	0
99	Water electrolysis for hydrogen production: from hybrid systems to self-powered/catalyzed devices. <i>Energy and Environmental Science</i> , 2024, 17, 49-113.	15.6	10