## Modulation of Molecular Spatial Distribution and Chem Nanosheets for Ethanol Electroâ€oxidation

Advanced Materials 31, e1900528 DOI: 10.1002/adma.201900528

**Citation Report** 

#	Article	IF	CITATIONS
1	Cyanogel auto-reduction induced synthesis of PdCo nanocubes on carbon nanobowls: a highly active electrocatalyst for ethanol electrooxidation. Nanoscale, 2019, 11, 13477-13483.	5.6	27
2	Methanol-assisted synthesis of Ni <sup>3+</sup> -doped ultrathin NiZn-LDH nanomeshes for boosted alkaline water splitting. Dalton Transactions, 2020, 49, 1325-1333.	3.3	27
3	Amorphous/Crystalline Heterostructured Cobaltâ€Vanadiumâ€Iron (Oxy)hydroxides for Highly Efficient Oxygen Evolution Reaction. Advanced Energy Materials, 2020, 10, 2002215.	19.5	198
4	Rational design of Co-S-P nanosheet arrays as bifunctional electrocatalysts for both ethanol oxidation reaction and hydrogen evolution reaction. Inorganic Chemistry Frontiers, 2020, 7, 4498-4506.	6.0	20
5	Singleâ€Atom Inâ€Doped Subnanometer Pt Nanowires for Simultaneous Hydrogen Generation and Biomass Upgrading. Advanced Functional Materials, 2020, 30, 2004310.	14.9	77
6	Vacancyâ€Rich Ni(OH) <sub>2</sub> Drives the Electrooxidation of Amino Câ^'N Bonds to Nitrile C≡N Bonds. Angewandte Chemie - International Edition, 2020, 59, 16974-16981.	13.8	91
7	Vacancyâ€Rich Ni(OH) <sub>2</sub> Drives the Electrooxidation of Amino Câ^'N Bonds to Nitrile C≡N Bonds. Angewandte Chemie, 2020, 132, 17122-17129.	2.0	21
8	Interfacial Engineering of MoO <sub>2</sub> â€FeP Heterojunction for Highly Efficient Hydrogen Evolution Coupled with Biomass Electrooxidation. Advanced Materials, 2020, 32, e2000455.	21.0	401
9	2D CoOOH Sheet-Encapsulated Ni2P into Tubular Arrays Realizing 1000ÂmAÂcmâ^'2-Level-Current-Density Hydrogen Evolution Over 100Âh in Neutral Water. Nano-Micro Letters, 2020, 12, 140.	27.0	83
10	2D Hybrid Superlattice-Based On-Chip Electrocatalytic Microdevice for <i>in Situ</i> Revealing Enhanced Catalytic Activity. ACS Nano, 2020, 14, 1635-1644.	14.6	36
11	Anodic hydrazine electrooxidation boosted overall water electrolysis by bifunctional porous nickel phosphide nanotubes on nickel foam. Nanoscale, 2020, 12, 11526-11535.	5.6	37
12	On-chip electrocatalytic microdevice: an emerging platform for expanding the insight into electrochemical processes. Chemical Society Reviews, 2020, 49, 2916-2936.	38.1	68
13	Hybrid water electrolysis: Replacing oxygen evolution reaction for energy-efficient hydrogen production and beyond. Materials Reports Energy, 2021, 1, 100004.	3.2	27
14	Synergetic enhancement of surface reactions and charge separation over holey C3N4/TiO2 2D heterojunctions. Science Bulletin, 2021, 66, 275-283.	9.0	61
15	Convenient synthesis of polymetallic metal–organic gels for efficient methanol electro-oxidation. Inorganic Chemistry Frontiers, 2021, 8, 927-933.	6.0	11
16	Electron cloud migration effect-induced lithiophobicity/lithiophilicity transformation for dendrite-free lithium metal anodes. Nanoscale, 2021, 13, 3027-3035.	5.6	8
17	Solar-assisted co-electrolysis of glycerol and water for concurrent production of formic acid and hydrogen. Journal of Materials Chemistry A, 2021, 9, 19975-19983.	10.3	18
18	Single WTe <sub>2</sub> Sheet-Based Electrocatalytic Microdevice for Directly Detecting Enhanced Activity of Doped Electronegative Anions. ACS Applied Materials & Interfaces, 2021, 13, 14302-14311.	8.0	15

#	Article	IF	CITATIONS
19	Co <sub><i>x</i></sub> P@Co <sub>3</sub> O <sub>4</sub> Nanocomposite on Cobalt Foam as Efficient Bifunctional Electrocatalysts for Hydrazine-Assisted Hydrogen Production. ACS Sustainable Chemistry and Engineering, 2021, 9, 4688-4701.	6.7	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.	6.3	5
21	Hairy sphere-like Ni9S8/CuS/Cu2O composites grown on nickel foam as bifunctional electrocatalysts for hydrogen evolution and urea electrooxidation. International Journal of Hydrogen Energy, 2021, 46, 20950-20960.	7.1	44
22	Multi-scale regulation in S, N co-incorporated carbon encapsulated Fe-doped Co9S8 achieving efficient water oxidation with low overpotential. Nano Research, 2022, 15, 872-880.	10.4	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.	13.7	95
24	In Situ Phase Separation into Coupled Interfaces for Promoting CO <sub>2</sub> Electroreduction to Formate over a Wide Potential Window. Angewandte Chemie, 2021, 133, 23122-23129.	2.0	11
25	Platinum Modulates Redox Properties and 5â€Hydroxymethylfurfural Adsorption Kinetics of Ni(OH) <sub>2</sub> for Biomass Upgrading. Angewandte Chemie - International Edition, 2021, 60, 22908-22914.	13.8	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.	6.1	27
27	Electronic Structure Modulation of Nonâ€Nobleâ€Metalâ€Based Catalysts for Biomass Electrooxidation Reactions. Small Structures, 2021, 2, 2100095.	12.0	28
28	In Situ Phase Separation into Coupled Interfaces for Promoting CO <sub>2</sub> Electroreduction to Formate over a Wide Potential Window. Angewandte Chemie - International Edition, 2021, 60, 22940-22947.	13.8	67
29	Platinum Modulates Redox Properties and 5â€Hydroxymethylfurfural Adsorption Kinetics of Ni(OH) <sub>2</sub> for Biomass Upgrading. Angewandte Chemie, 2021, 133, 23090-23096.	2.0	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.	9.4	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.	9.4	63
32	Fe-doping induced localized amorphization in ultrathin α-Ni(OH) <sub>2</sub> nanomesh for superior oxygen evolution reaction catalysis. Journal of Materials Chemistry A, 2021, 9, 14372-14380.	10.3	44
33	Structural Optimization of Metal Oxyhalide for <scp>CO<sub>2</sub></scp> Reduction with High Selectivity and Current Density. Chinese Journal of Chemistry, 2020, 38, 1752-1756.	4.9	8
34	Ultrahigh urrentâ€Density and Longâ€Termâ€Durability Electrocatalysts for Water Splitting. Small, 2022, 18, e2104513.	10.0	49
35	A dotted nanowire arrayed by 5Ânm sized palladium and nickel composite nanopaticles showing significant electrocatalytic activity towards ethanol oxidation reaction (EOR). International Journal of Hydrogen Energy, 2021, 47, 276-276.	7.1	1
36	Schottky Heterojunction Nanosheet Array Achieving Highâ€Currentâ€Density Oxygen Evolution for Industrial Water Splitting Electrolyzers. Advanced Energy Materials, 2021, 11, 2102353.	19.5	177

#	Article	IF	CITATIONS
37	Exploring Structure-function Relationship of Two-dimensional Electrocatalysts with Synchrotron Radiation X-ray Absorption Spectrum. Current Chinese Science, 2021, 1, 22-42.	0.5	2
38	Recent Advances on Electrolysis for Simultaneous Generation of Valuable Chemicals at both Anode and Cathode. Advanced Energy Materials, 2021, 11, 2102292.	19.5	129
39	Boosting Nitrogen Reduction Reaction via Electronic Coupling of Atomically Dispersed Bismuth with Titanium Nitride Nanorods. Advanced Science, 2022, 9, e2104245.	11.2	44
40	Recent advances in the pre-oxidation process in electrocatalytic urea oxidation reactions. Chemical Communications, 2022, 58, 2430-2442.	4.1	71
41	Construction of Co3O4-Ni3S4-rGO ternary hybrid as an efficient nanoelectrocatalyst for methanol and ethanol oxidation in alkaline media. Journal of Alloys and Compounds, 2022, 900, 163408.	5.5	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. Chem Catalysis, 2021, 1, 1493-1504.	6.1	20
44	In Situ Halogenâ€lon Leaching Regulates Multiple Sites on Tandem Catalysts for Efficient CO <sub>2</sub> Electroreduction to C <sub>2+</sub> Products. Angewandte Chemie, 2022, 134, .	2.0	9
45	In Situ Halogenâ€lon Leaching Regulates Multiple Sites on Tandem Catalysts for Efficient CO <sub>2</sub> Electroreduction to C <sub>2+</sub> Products. Angewandte Chemie - International Edition, 2022, 61, .	13.8	67
46	Trimetallic RhNiFe Phosphide Nanosheets for Electrochemical Reforming of Ethanol. ACS Applied Nano Materials, 2022, 5, 4948-4957.	5.0	9
47	Electrochemical reforming of ethanol with acetate Co-Production on nickel cobalt selenide nanoparticles. Chemical Engineering Journal, 2022, 440, 135817.	12.7	19
48	Pathway Manipulation via Ni, Co, and V Ternary Synergism to Realize High Efficiency for Urea Electrocatalytic Oxidation. ACS Catalysis, 2022, 12, 569-579.	11.2	101
49	High Entropy Alloy Electrocatalytic Electrode toward Alkaline Glycerol Valorization Coupling with Acidic Hydrogen Production. Journal of the American Chemical Society, 2022, 144, 7224-7235.	13.7	156
50	Interfacial and Vacancies Engineering of Copper Nickel Sulfide for Enhanced Oxygen Reduction and Alcohols Oxidation Activity. Energy and Environmental Materials, 2023, 6, .	12.8	8
51	Active and conductive layer stacked superlattices for highly selective CO2 electroreduction. Nature Communications, 2022, 13, 2039.	12.8	69
52	Copper-doped nickel oxyhydroxide for efficient electrocatalytic ethanol oxidation. Chinese Journal of Catalysis, 2022, 43, 1478-1484.	14.0	23
53	Structural Reconstruction of Catalysts in Electroreduction Reaction: Identifying, Understanding, and Manipulating. Advanced Materials, 2022, 34, e2110699.	21.0	16
54	Bifunctional Mn-doped CoSe2 nanonetworks electrode for hybrid alkali/acid electrolytic H2 generation and glycerol upgrading. Journal of Energy Chemistry, 2022, 72, 424-431.	12.9	24

CITATION REPORT

#	Article	IF	CITATIONS
55	Triggering Lattice Oxygen Activation of Singleâ€Atomic Mo Sites Anchored on Ni–Fe Oxyhydroxides Nanoarrays for Electrochemical Water Oxidation. Advanced Materials, 2022, 34, e2202523.	21.0	103
56	éžè́µé‡'属基å,¬åŒ−å‰,用于生物è΅ç"µæ°§åŒ−é«~值åŒ−å^©ç"¨çš" ç"究进展. Science China Ma	ate <b>rial</b> s, 20	222 <b>6</b> 5, 3273
57	Carbon coated CoO plates/3D nickel foam: An efficient and readily recyclable catalyst for peroxymonosulfate activation. Separation and Purification Technology, 2022, 297, 121400.	7.9	8
58	Engineering a Local Free Water Enriched Microenvironment for Surpassing Platinum Hydrogen Evolution Activity. Angewandte Chemie - International Edition, 2022, 61, .	13.8	45
59	<i>In Situ</i> Chalcogen Leaching Manipulates Reactant Interface toward Efficient Amine Electrooxidation. ACS Nano, 2022, 16, 9572-9582.	14.6	31
60	Engineering a Local Free Water Enriched Microenvironment for Surpassing Platinum Hydrogen Evolution Activity. Angewandte Chemie, 2022, 134, .	2.0	8
61	Defect-Rich and Single-Crystalline PdCu Ultrathin Nanowires Promoting Ethanol Oxidation Electrocatalysis. ACS Applied Energy Materials, 2022, 5, 10233-10239.	5.1	6
62	Multiphase PdCu nanoparticles with improved C1 selectivity in ethanol oxidation. Inorganic Chemistry Frontiers, 2022, 9, 4714-4721.	6.0	4
63	Assembly of trimetallic palladium-silver-copper nanosheets for efficient C2 alcohol electrooxidation. Science China Materials, 2023, 66, 150-159.	6.3	10
64	Deciphering the Structure Activity Relationship of Nickel Containing Materials towards Electrocatalytic Oxidation of Urea. Journal of the Electrochemical Society, 2022, 169, 094501.	2.9	2
65	Chemical-vapor-deposition-grown 2D transition metal dichalcogenides: A generalist model for engineering electrocatalytic hydrogen evolution. Nano Research, 2023, 16, 101-116.	10.4	4
66	Defect engineering of electrocatalysts for organic synthesis. Nano Research, 2023, 16, 1890-1912.	10.4	13
67	Defect engineering of Ni <sub>3</sub> S <sub>2</sub> nanosheets with highly active (110) facets toward efficient electrochemical biomass valorization. Journal of Materials Chemistry A, 2022, 10, 23244-23253.	10.3	10
68	Superior bifunctional cobalt/nitrogen-codoped carbon nanosheet arrays on copper foam enable stable energy-saving hydrogen production accompanied with glucose upgrading. Green Chemistry, 2022, 24, 6544-6555.	9.0	20
69	Recent Advances in Upgrading of Low ost Oxidants to Valueâ€Added Products by Electrocatalytic Reduction Reaction. Advanced Functional Materials, 2022, 32, .	14.9	20
70	Bias-free solar hydrogen production at 19.8 mA cmâ^'2 using perovskite photocathode and lignocellulosic biomass. Nature Communications, 2022, 13, .	12.8	33
71	Light, Heat and Electricity Integrated Energy Conversion System: Photothermalâ€assisted Coâ€electrolysis of CO2 and Methanol. Angewandte Chemie, 0, , .	2.0	3
72	Light, Heat and Electricity Integrated Energy Conversion System: Photothermalâ€Assisted Coâ€Electrolysis of CO <sub>2</sub> and Methanol. Angewandte Chemie - International Edition, 2022, 61, .	13.8	27

CITATION REPORT

#	Article	IF	CITATIONS
73	Nanopore-rich NiFe LDH targets the formation of the high-valent nickel for enhanced oxygen evolution reaction. Nano Research, 2023, 16, 2286-2293.	10.4	13
74	On-Chip Microdevice Unveils Reactant Enrichment Effect Dominated Electrocatalysis Activity in Molecular-Linked Catalysts. Nano Letters, 2022, 22, 10154-10162.	9.1	3
75	Operando Reconstruction toward Dualâ€Cationâ€Defects Coâ€Containing NiFe Oxyhydroxide for Ultralow Energy Consumption Industrial Water Splitting Electrolyzer. Advanced Energy Materials, 2023, 13, .	19.5	20
76	Boosting ethanol oxidation by NiOOH-CuO nano-heterostructure for energy-saving hydrogen production and biomass upgrading. Applied Catalysis B: Environmental, 2023, 325, 122388.	20.2	49
77	Thermal Shrinkage Engineering Enables Electrocatalysts for Stable Hydrogen Evolution at 2000ÂmAÂcm <sup>â^2</sup> . Advanced Functional Materials, 2023, 33, .	14.9	9
78	Atomic phosphorus induces tunable lattice strain in high entropy alloys and boosts alkaline water splitting. Nano Energy, 2023, 110, 108380.	16.0	18
79	Electrochemical Biomass Upgrading Coupled with Hydrogen Production under Industrial‣evel Current Density. Advanced Materials, 2023, 35, .	21.0	43
80	Coupling Hydrazine Oxidation with Seawater Electrolysis for Energyâ€Saving Hydrogen Production over Bifunctional CoNC Nanoarray Electrocatalysts. Small, 2023, 19, .	10.0	20
81	Recent progress in synergistic electrocatalysis for generation of valuable products based on water cycle. Nano Research, 2023, 16, 6444-6476.	10.4	6
82	Energy-efficient hydrogen production coupled with simultaneous electrosynthesis of acetate over a mesoporous OsRh film. Journal of Materials Chemistry A, 2023, 11, 8922-8928.	10.3	18
83	Amorphous/crystalline heterostructure of NiFe (oxy)hydroxides for efficient oxygen evolution and urea oxidation. Chemical Communications, 2023, 59, 4620-4623.	4.1	3
84	Lattice-disordered high-entropy metal hydroxide nanosheets as efficient precatalysts for bifunctional electro-oxidation. Journal of Colloid and Interface Science, 2023, 642, 41-52.	9.4	19
85	Inhibitor and Activator: Dual Role of Subsurface Sulfide Enables Selective and Efficient Electroâ€Oxidation of Methanol to Formate on CuS@CuO Coreâ€Shell Nanosheet Arrays. Small, 2023, 19, .	10.0	11
86	Constructing Builtâ€in Electric Field in Heterogeneous Nanowire Arrays for Efficient Overall Water Electrolysis. Angewandte Chemie - International Edition, 2023, 62, .	13.8	55
87	Constructing Builtâ€in Electric Field in Heterogeneous Nanowire Arrays for Efficient Overall Water Electrolysis. Angewandte Chemie, 2023, 135, .	2.0	12
88	Selective electrosynthesis of platform chemicals from the electrocatalytic reforming of biomass-derived hexanediol. Faraday Discussions, 0, 247, 159-171.	3.2	2
89	Ceo <sub>2</sub> /Cus Nanoplates Electroreduce Co <sub>2</sub> to Ethanol withÂStabilized Cu <sup>+</sup> Species. Small, 2023, 19, .	10.0	12
90	Operando Reconstructed Molecule Fence to Stabilize NiFeâ€Based Oxygen Evolution Catalysts. Advanced Energy Materials, 2023, 13, .	19.5	6

#	Article	IF	CITATIONS
91	External-field-driven molecular polarization manipulates reactant interface toward efficient hydrogen evolution. Science China Materials, 2023, 66, 3501-3508.	6.3	3
92	Highly efficient C@Ni-Pd bifunctional electrocatalyst for energy-saving hydrogen evolution and value-added chemicals co-production from ethanol aqueous solution. Chemical Engineering Journal, 2023, 474, 145639.	12.7	1
93	Boosting nucleophilic attack to realize high current density biomass valorization on a tunable Prussian blue analogue. Nanoscale, 2023, 15, 15649-15655.	5.6	0
94	Amorphization Engineering of Bimetallic Metalâ€Organic Frameworks to Identify Volcanoâ€Type Trend toward Oxygen Evolution Reaction. Advanced Functional Materials, 2024, 34, .	14.9	1
95	Strain and Shell Thickness Engineering in Pd <sub>3</sub> Pb@Pt Bifunctional Electrocatalyst for Ethanol Upgrading Coupled with Hydrogen Production. Small, 2024, 20, .	10.0	2
96	Recent Advancements in Electrochemical Hydrogen Production via Hybrid Water Splitting. Advanced Materials, 2024, 36, .	21.0	4
97	Modulation of Charge Redistribution in Heterogeneous NiOâ€Ni <sub>3</sub> Se <sub>4</sub> Nanosheet Arrays for Advanced Water Electrolysis. Advanced Functional Materials, 2024, 34, .	14.9	6
98	Recent progress on 2D material-based nanoarchitectures for small molecule electro-oxidation. Materials Chemistry Frontiers, 0, , .	5.9	0
99	Water electrolysis for hydrogen production: from hybrid systems to self-powered/catalyzed devices. Energy and Environmental Science, 2024, 17, 49-113.	30.8	10
100	Highly selective electrosynthesis of 3,4-dihydroisoquinoline accompanied with hydrogen production over three-dimensional hollow CoNi-based microarray electrocatalysts. Nano Research, 0, , .	10.4	1
101	Iron-optimized oxygen vacancy concentration to strengthen the electrocatalytic ability of the urea oxidation reaction. Chemical Communications, 2023, 59, 14395-14398.	4.1	1
102	Stronglyâ€Interacted NiSe <sub>2</sub> /NiFe <sub>2</sub> O <sub>4</sub> Architectures Built Through Selective Atomic Migration as Catalysts for the Oxygen Evolution Reaction. Small, 0, , .	10.0	0
103	Modulation of Electronic Synergy to Enhance the Intrinsic Activity of Fe <sub>5</sub> Ni <sub>4</sub> S <sub>8</sub> Nanosheets in Restricted Space Carbonized Wood Frameworks for Efficient Oxygen Evolution Reaction. Small, 0, , .	10.0	0
104	Tuning Intermediate-Enriched microenvironment of pt-loaded porous TiN nanorods for enhanced electrochemical ozone production and hydrogen evolution reaction. Chemical Engineering Science, 2024, 286, 119652.	3.8	0
105	Preparation of Metallic Ni <sub>3</sub> N Nanoparticles and Its Electrooxidation Performance for Ethylene Glycol <sup>a~</sup> . Acta Chimica Sinica, 2023, 81, 1471.	1.4	0
106	Efficiently Enhanced Selectivity of Electrocatalyzing Ethanol to High Value-Added Acetaldehyde Through Tuning the Cobalt Valence State. ACS Catalysis, 2024, 14, 1706-1713.	11.2	0
107	Reconstructing Hydrogenâ€Bond Network for Efficient Acidic Oxygen Evolution. Angewandte Chemie - International Edition, 2024, 63, .	13.8	0
108	Reconstructing Hydrogenâ€Bond Network for Efficient Acidic Oxygen Evolution. Angewandte Chemie, 2024, 136, .	2.0	0

CITATION REPORT

		LITATION REPO	N REPORT		
#	Article		IF	CITATIONS	
109	Electrocatalytic Oxidation of Methanol and Ethanol with 3d-Metal Based Anodic Electrocatalysts in Alkaline Media Using Carbon Based Electrode Assembly. Inorganic Chemistry, 2024, 63, 3005-3018		4.0	1	
110	Rational modulation of electronic structure in PtAuCuNi alloys boosts efficient electrocatalytic ethanol oxidation assisted with energy-saving hydrogen evolution. Journal of Energy Chemistry, 202 93, 557-567.	.4,	12.9	0	
111	Electrochemical alcohol oxidation reaction on Preciousâ€Metalâ€Free catalysts: Mechanism, activit selectivity. , 2024, 3, 285-312.	y, and		0	