

## List of Publications by Citations

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77  
papers

7,256  
citations

43  
h-index

82  
g-index

82  
ext. papers

8,950  
ext. citations

12.3  
avg, IF

6.47  
L-index

#	Paper	IF	Citations
77	Ultrathin Iron-Cobalt Oxide Nanosheets with Abundant Oxygen Vacancies for the Oxygen Evolution Reaction. <i>Advanced Materials</i> , <b>2017</b> , 29, 1606793	24	821
76	Defect Graphene as a Trifunctional Catalyst for Electrochemical Reactions. <i>Advanced Materials</i> , <b>2016</b> , 28, 9532-9538	24	711
75	A Heterostructure Coupling of Exfoliated Ni-Fe Hydroxide Nanosheet and Defective Graphene as a Bifunctional Electrocatalyst for Overall Water Splitting. <i>Advanced Materials</i> , <b>2017</b> , 29, 1700017	24	651
74	Graphene Defects Trap Atomic Ni Species for Hydrogen and Oxygen Evolution Reactions. <i>Chem</i> , <b>2018</b> , 4, 285-297	16.2	436
73	Coordination of Atomic Co-Pt Coupling Species at Carbon Defects as Active Sites for Oxygen Reduction Reaction. <i>Journal of the American Chemical Society</i> , <b>2018</b> , 140, 10757-10763	16.4	301
72	Defects on carbons for electrocatalytic oxygen reduction. <i>Chemical Society Reviews</i> , <b>2018</b> , 47, 7628-7658	38.5	282
71	Identification of active sites for acidic oxygen reduction on carbon catalysts with and without nitrogen doping. <i>Nature Catalysis</i> , <b>2019</b> , 2, 688-695	36.5	251
70	Three-dimensional NiCo <sub>2</sub> O <sub>4</sub> @NiWO <sub>4</sub> core-shell nanowire arrays for high performance supercapacitors. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 1028-1034	13	201
69	A Defect-Driven Metal-free Electrocatalyst for Oxygen Reduction in Acidic Electrolyte. <i>Chem</i> , <b>2018</b> , 4, 2345-2356	16.2	193
68	The Role of Defect Sites in Nanomaterials for Electrocatalytic Energy Conversion. <i>Chem</i> , <b>2019</b> , 5, 1371-1382	16.2	170
67	Defective-Activated-Carbon-Supported Mn-Co Nanoparticles as a Highly Efficient Electrocatalyst for Oxygen Reduction. <i>Advanced Materials</i> , <b>2016</b> , 28, 8771-8778	24	139
66	Seaweed biomass derived (Ni,Co)/CNT nanoaerogels: efficient bifunctional electrocatalysts for oxygen evolution and reduction reactions. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 6376-6384	13	135
65	Combination of nanosizing and interfacial effect: Future perspective for designing Mg-based nanomaterials for hydrogen storage. <i>Renewable and Sustainable Energy Reviews</i> , <b>2015</b> , 44, 289-303	16.2	128
64	A Surfactant-Free and Scalable General Strategy for Synthesizing Ultrathin Two-Dimensional Metal-Organic Framework Nanosheets for the Oxygen Evolution Reaction. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 13565-13572	16.4	121
63	Defect-Induced Pt-Co-Se Coordinated Sites with Highly Asymmetrical Electronic Distribution for Boosting Oxygen-Involving Electrocatalysis. <i>Advanced Materials</i> , <b>2019</b> , 31, e1805581	24	118
62	Activated carbon becomes active for oxygen reduction and hydrogen evolution reactions. <i>Chemical Communications</i> , <b>2016</b> , 52, 8156-9	5.8	114
61	Edge-Rich Fe-N Active Sites in Defective Carbon for Oxygen Reduction Catalysis. <i>Advanced Materials</i> , <b>2020</b> , 32, e2000966	24	113

60	Tuning oxygen vacancies in two-dimensional iron-cobalt oxide nanosheets through hydrogenation for enhanced oxygen evolution activity. <i>Nano Research</i> , <b>2018</b> , 11, 3509-3518	10	110
59	Hydrogen Incorporation and Storage in Well-Defined Nanocrystals of Anatase Titanium Dioxide. <i>Journal of Physical Chemistry C</i> , <b>2011</b> , 115, 25590-25594	3.8	92
58	Defect electrocatalytic mechanism: concept, topological structure and perspective. <i>Materials Chemistry Frontiers</i> , <b>2018</b> , 2, 1250-1268	7.8	90
57	Understanding the Activity of Co-N C in Atomic Metal Catalysts for Oxygen Reduction Catalysis. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 6122-6127	16.4	86
56	Plasma-Triggered Synergy of Exfoliation, Phase Transformation, and Surface Engineering in Cobalt Diselenide for Enhanced Water Oxidation. <i>Angewandte Chemie - International Edition</i> , <b>2018</b> , 57, 16421-16425	16.4	84
55	Enhanced hydrogen desorption from Mg(BH <sub>4</sub> ) <sub>2</sub> by combining nanoconfinement and a Ni catalyst. <i>Journal of Materials Chemistry A</i> , <b>2013</b> , 1, 3471	13	76
54	Sulfur-Modified Oxygen Vacancies in Iron-Cobalt Oxide Nanosheets: Enabling Extremely High Activity of the Oxygen Evolution Reaction to Achieve the Industrial Water Splitting Benchmark. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 14664-14670	16.4	73
53	In-situ synthesize multi-walled carbon nanotubes@MnO <sub>2</sub> nanoflake core-shell structured materials for supercapacitors. <i>Journal of Power Sources</i> , <b>2012</b> , 216, 508-514	8.9	70
52	Layer-by-layer assembly and electrochemical properties of sandwiched film of manganese oxide nanosheet and carbon nanotube. <i>Carbon</i> , <b>2009</b> , 47, 1534-1542	10.4	70
51	Facile Synthesis of CoWO <sub>4</sub> Nanosheet Arrays Grown on Nickel Foam Substrates for Asymmetric Supercapacitors. <i>ChemElectroChem</i> , <b>2016</b> , 3, 1490-1496	4.3	65
50	Architecture-controlled synthesis of MxOy (M = Ni, Fe, Cu) microfibrils from seaweed biomass for high-performance lithium ion battery anodes. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 22708-22715	13	62
49	Destabilization of Mg-H bonding through nano-interfacial confinement by unsaturated carbon for hydrogen desorption from MgH <sub>2</sub> . <i>Physical Chemistry Chemical Physics</i> , <b>2013</b> , 15, 5814-20	3.6	62
48	Recent advances in liquid-phase chemical hydrogen storage. <i>Energy Storage Materials</i> , <b>2020</b> , 26, 290-312	19.4	61
47	Enhanced photodynamic therapy of mixed phase TiO <sub>2</sub> (B)/anatase nanofibers for killing of HeLa cells. <i>Nano Research</i> , <b>2014</b> , 7, 1659-1669	10	59
46	Fluorine-doped porous single-crystal rutile TiO <sub>2</sub> nanorods for enhancing photoelectrochemical water splitting. <i>Chemistry - A European Journal</i> , <b>2014</b> , 20, 11439-44	4.8	55
45	Biomimetic CNT@TiO <sub>2</sub> composite with enhanced photocatalytic properties. <i>Chemical Engineering Journal</i> , <b>2015</b> , 281, 60-68	14.7	54
44	Defective Structures in Metal Compounds for Energy-Related Electrocatalysis. <i>Small Structures</i> , <b>2021</b> , 2, 2000067	8.7	54
43	System analysis of pulping process coupled with supercritical water gasification of black liquor for combined hydrogen, heat and power production. <i>Energy</i> , <b>2017</b> , 132, 238-247	7.9	51

42	Charge Polarization from Atomic Metals on Adjacent Graphitic Layers for Enhancing the Hydrogen Evolution Reaction. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 9404-9408	16.4	50
41	Supercritical Water Gasification of Coal with Waste Black Liquor as Inexpensive Additives. <i>Energy &amp; Fuels</i> , <b>2015</b> , 29, 384-391	4.1	50
40	Metallic Ni nanocatalyst in situ formed from a metal-organic-framework by mechanochemical reaction for hydrogen storage in magnesium. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 8294-8299	13	49
39	A Directional Synthesis for Topological Defect in Carbon. <i>Chem</i> , <b>2020</b> , 6, 2009-2023	16.2	49
38	Manipulating solar absorption and electron transport properties of rutile TiO <sub>2</sub> photocatalysts via highly n-type F-doping. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 3513	13	49
37	Catalytic Dehydrogenation in Mg by Co-Doped Ni and VO <sub>x</sub> on Active Carbon: Extremely Fast Kinetics at Low Temperatures and High Hydrogen Capacity. <i>Advanced Energy Materials</i> , <b>2011</b> , 1, 387-393	21.8	48
36	Carbon scaffold modified by metal (Ni) or non-metal (N) to enhance hydrogen storage of MgH <sub>2</sub> through nanoconfinement. <i>International Journal of Hydrogen Energy</i> , <b>2017</b> , 42, 22933-22941	6.7	44
35	Hydrogenation/dehydrogenation in MgH <sub>2</sub> -activated carbon composites prepared by ball milling. <i>International Journal of Hydrogen Energy</i> , <b>2012</b> , 37, 7579-7585	6.7	43
34	Activity Origins in Nanocarbons for the Electrocatalytic Hydrogen Evolution Reaction. <i>Small</i> , <b>2018</b> , 14, e1800235	11	42
33	Confined LiBH <sub>4</sub> : Enabling fast hydrogen release at ~100°C. <i>International Journal of Hydrogen Energy</i> , <b>2012</b> , 37, 18920-18926	6.7	38
32	Scalable and controllable synthesis of atomic metal electrocatalysts assisted by an egg-box in alginate. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 18417-18425	13	38
31	Atomic Cobalt on Defective Bimodal Mesoporous Carbon toward Efficient Oxygen Reduction for Zinc-Air Batteries. <i>Small Methods</i> , <b>2019</b> , 3, 1800450	12.8	35
30	Design of plasmonic nanomaterials for diagnostic spectrometry. <i>Nanoscale Advances</i> , <b>2019</b> , 1, 459-469	5.1	31
29	Gradient-Concentration Design of Stable Core-Shell Nanostructure for Acidic Oxygen Reduction Electrocatalysis. <i>Advanced Materials</i> , <b>2020</b> , 32, e2003493	24	30
28	Understanding the Activity of Co-N <sub>4</sub> C <sub>x</sub> in Atomic Metal Catalysts for Oxygen Reduction Catalysis. <i>Angewandte Chemie</i> , <b>2020</b> , 132, 6178-6183	3.6	30
27	Defective Carbons Derived from Macadamia Nut Shell Biomass for Efficient Oxygen Reduction and Supercapacitors. <i>ChemElectroChem</i> , <b>2018</b> , 5, 1874-1879	4.3	29
26	Grafting Cobalt Diselenide on Defective Graphene for Enhanced Oxygen Evolution Reaction. <i>IScience</i> , <b>2018</b> , 7, 145-153	6.1	29
25	NaBH <sub>4</sub> regeneration from NaBO <sub>2</sub> by high-energy ball milling and its plausible mechanism. <i>International Journal of Hydrogen Energy</i> , <b>2017</b> , 42, 13127-13135	6.7	28

24	Dehydrogenation of Ammonia Borane Confined by Low-Density Porous Aromatic Framework. <i>Journal of Physical Chemistry C</i> , <b>2012</b> , 116, 25694-25700	3.8	28
23	Co <sub>3</sub> O <sub>4</sub> nanoparticle embedded carbonaceous fibres: a nanoconfinement effect on enhanced lithium-ion storage. <i>Chemical Communications</i> , <b>2015</b> , 51, 16267-70	5.8	27
22	Brønsted base site engineering of graphitic carbon nitride for enhanced photocatalytic activity. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 19227-19236	13	24
21	Atom-Coordinated Structure Triggers Selective H <sub>2</sub> O <sub>2</sub> Production. <i>Chem</i> , <b>2020</b> , 6, 548-550	16.2	23
20	Hierarchically structured WO <sub>3</sub> @TiO <sub>2</sub> NS composites with enhanced photocatalytic activity. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 5467-5473	13	23
19	Hydrothermal Synthesis of 3D Porous Structure Bi <sub>2</sub> WO <sub>6</sub> /Reduced Graphene Oxide Hydrogels for Enhancing Supercapacitor Performance. <i>ChemElectroChem</i> , <b>2017</b> , 4, 577-584	4.3	22
18	Controllable synthesis of Fe <sup>IV</sup> species for acidic oxygen reduction <b>2020</b> , 2, 452-460		22
17	Probing the Active Sites of Carbon-Encapsulated Cobalt Nanoparticles for Oxygen Reduction. <i>Small Methods</i> , <b>2019</b> , 3, 1800439	12.8	21
16	Potassium niobate nanolamina: a promising adsorbent for entrapment of radioactive cations from water. <i>Scientific Reports</i> , <b>2014</b> , 4, 7313	4.9	21
15	Single Carbon Vacancy Traps Atomic Platinum for Hydrogen Evolution Catalysis. <i>Journal of the American Chemical Society</i> , <b>2022</b> ,	16.4	21
14	Defective graphene anchored iron-cobalt nanoparticles for efficient electrocatalytic oxygen reduction. <i>Chemical Communications</i> , <b>2017</b> , 53, 12140-12143	5.8	19
13	Clarifying the Origin of Oxygen Reduction Activity in Heteroatom-Modified Defective Carbon. <i>Cell Reports Physical Science</i> , <b>2020</b> , 1, 100083	6.1	18
12	Catalytically Enhanced Hydrogen Sorption in Mg-MgH <sub>2</sub> by Coupling Vanadium-Based Catalyst and Carbon Nanotubes. <i>Materials</i> , <b>2015</b> , 8, 3491-3507	3.5	17
11	H <sub>2</sub> O <sub>2</sub> /C/MnO <sub>2</sub> nanocomposite materials for high-performance supercapacitors. <i>Journal of Nanoparticle Research</i> , <b>2015</b> , 17, 1	2.3	16
10	Catalytically enhanced dehydrogenation of MgH <sub>2</sub> by activated carbon supported PdVO <sub>x</sub> (x=2.38) nanocatalyst. <i>International Journal of Hydrogen Energy</i> , <b>2012</b> , 37, 13393-13399	6.7	15
9	One-step In-situ Synthesis of Vacancy-rich CoFe <sub>2</sub> O <sub>4</sub> @Defective Graphene Hybrids as Bifunctional Oxygen Electrocatalysts for Rechargeable Zn-Air Batteries. <i>Chemical Research in Chinese Universities</i> , <b>2020</b> , 36, 479-487	2.2	14
8	Sulfur-Modified Oxygen Vacancies in Iron-Cobalt Oxide Nanosheets: Enabling Extremely High Activity of the Oxygen Evolution Reaction to Achieve the Industrial Water Splitting Benchmark. <i>Angewandte Chemie</i> , <b>2020</b> , 132, 14772-14778	3.6	10
7	Metallic Ni nanocatalyst in situ formed from LaNi <sub>5</sub> H <sub>5</sub> toward efficient CO <sub>2</sub> methanation. <i>International Journal of Hydrogen Energy</i> , <b>2019</b> , 44, 29068-29074	6.7	8

6	Platinum stabilized by defective activated carbon with excellent oxygen reduction performance in alkaline media. <i>Chinese Journal of Catalysis</i> , <b>2017</b> , 38, 1011-1020	11.3	8
5	A magnetic field strategy to porous Pt-Ni nanoparticles with predominant (111) facets for enhanced electrocatalytic oxygen reduction. <i>Journal of Energy Chemistry</i> , <b>2021</b> , 53, 192-196	12	6
4	Dehydrogenation and reaction pathway of Perovskite-Type $\text{NH}_4\text{Ca}(\text{BH}_4)_3$ . <i>Progress in Natural Science: Materials International</i> , <b>2018</b> , 28, 194-199	3.6	4
3	Effect of titanium based complex catalyst and carbon nanotubes on hydrogen storage performance of magnesium. <i>Science China Chemistry</i> , <b>2013</b> , 56, 451-458	7.9	3
2	Defective carbon-based materials: controllable synthesis and electrochemical applications. <i>EnergyChem</i> , <b>2021</b> , 100059	36.9	3
1	Charge Polarization from Atomic Metals on Adjacent Graphitic Layers for Enhancing the Hydrogen Evolution Reaction. <i>Angewandte Chemie</i> , <b>2019</b> , 131, 9504-9508	3.6	1