

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Single Carbon Vacancy Traps Atomic Platinum for Hydrogen Evolution Catalysis.. <i>Journal of the American Chemical Society</i> , 2022 ,	16.4	21
76	Defective carbon-based materials: controllable synthesis and electrochemical applications. <i>EnergyChem</i> , 2021 , 100059	36.9	3
75	Defective Structures in Metal Compounds for Energy-Related Electrocatalysis. <i>Small Structures</i> , 2021 , 2, 2000067	8.7	54
74	A magnetic field strategy to porous Pt-Ni nanoparticles with predominant (111) facets for enhanced electrocatalytic oxygen reduction. <i>Journal of Energy Chemistry</i> , 2021 , 53, 192-196	12	6
73	Controllable synthesis of Fe ₃ N ₄ species for acidic oxygen reduction 2020 , 2, 452-460		22
72	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> , 2020 , 132, 14772-14778	3.6	10
71	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> , 2020 , 59, 14664-14670	16.4	73
70	A Directional Synthesis for Topological Defect in Carbon. <i>CheM</i> , 2020 , 6, 2009-2023	16.2	49
69	Clarifying the Origin of Oxygen Reduction Activity in Heteroatom-Modified Defective Carbon. <i>Cell Reports Physical Science</i> , 2020 , 1, 100083	6.1	18
68	Atom-Coordinated Structure Triggers Selective H ₂ O ₂ Production. <i>CheM</i> , 2020 , 6, 548-550	16.2	23
67	Edge-Rich Fe-N Active Sites in Defective Carbon for Oxygen Reduction Catalysis. <i>Advanced Materials</i> , 2020 , 32, e2000966	24	113
66	Gradient-Concentration Design of Stable Core-Shell Nanostructure for Acidic Oxygen Reduction Electrocatalysis. <i>Advanced Materials</i> , 2020 , 32, e2003493	24	30
65	Understanding the Activity of Co-N ₄ C _x in Atomic Metal Catalysts for Oxygen Reduction Catalysis. <i>Angewandte Chemie</i> , 2020 , 132, 6178-6183	3.6	30
64	Understanding the Activity of Co-N C in Atomic Metal Catalysts for Oxygen Reduction Catalysis. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 6122-6127	16.4	86
63	Recent advances in liquid-phase chemical hydrogen storage. <i>Energy Storage Materials</i> , 2020 , 26, 290-312	19.4	61
62	One-step In-situ Synthesis of Vacancy-rich CoFe ₂ O ₄ @Defective Graphene Hybrids as Bifunctional Oxygen Electrocatalysts for Rechargeable Zn-Air Batteries. <i>Chemical Research in Chinese Universities</i> , 2020 , 36, 479-487	2.2	14
61	Design of plasmonic nanomaterials for diagnostic spectrometry. <i>Nanoscale Advances</i> , 2019 , 1, 459-469	5.1	31

60	Identification of active sites for acidic oxygen reduction on carbon catalysts with and without nitrogen doping. <i>Nature Catalysis</i> , 2019 , 2, 688-695	36.5	251
59	Charge Polarization from Atomic Metals on Adjacent Graphitic Layers for Enhancing the Hydrogen Evolution Reaction. <i>Angewandte Chemie</i> , 2019 , 131, 9504-9508	3.6	1
58	Charge Polarization from Atomic Metals on Adjacent Graphitic Layers for Enhancing the Hydrogen Evolution Reaction. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 9404-9408	16.4	50
57	Metallic Ni nanocatalyst in situ formed from LaNi ₅ H ₅ toward efficient CO ₂ methanation. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 29068-29074	6.7	8
56	The Role of Defect Sites in Nanomaterials for Electrocatalytic Energy Conversion. <i>Chem</i> , 2019 , 5, 1371-1387	10.7	170
55	Probing the Active Sites of Carbon-Encapsulated Cobalt Nanoparticles for Oxygen Reduction. <i>Small Methods</i> , 2019 , 3, 1800439	12.8	21
54	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> , 2019 , 58, 13565-13572	16.4	121
53	Defect-Induced Pt-Co-Se Coordinated Sites with Highly Asymmetrical Electronic Distribution for Boosting Oxygen-Involving Electrocatalysis. <i>Advanced Materials</i> , 2019 , 31, e1805581	24	118
52	Atomic Cobalt on Defective Bimodal Mesoporous Carbon toward Efficient Oxygen Reduction for Zinc-Air Batteries. <i>Small Methods</i> , 2019 , 3, 1800450	12.8	35
51	Defective Carbons Derived from Macadamia Nut Shell Biomass for Efficient Oxygen Reduction and Supercapacitors. <i>ChemElectroChem</i> , 2018 , 5, 1874-1879	4.3	29
50	Defect electrocatalytic mechanism: concept, topological structure and perspective. <i>Materials Chemistry Frontiers</i> , 2018 , 2, 1250-1268	7.8	90
49	Graphene Defects Trap Atomic Ni Species for Hydrogen and Oxygen Evolution Reactions. <i>Chem</i> , 2018 , 4, 285-297	16.2	436
48	Activity Origins in Nanocarbons for the Electrocatalytic Hydrogen Evolution Reaction. <i>Small</i> , 2018 , 14, e1800235	11	42
47	Tuning oxygen vacancies in two-dimensional iron-cobalt oxide nanosheets through hydrogenation for enhanced oxygen evolution activity. <i>Nano Research</i> , 2018 , 11, 3509-3518	10	110
46	Dehydrogenation and reaction pathway of Perovskite-Type NH ₄ Ca(BH ₄) ₃ . <i>Progress in Natural Science: Materials International</i> , 2018 , 28, 194-199	3.6	4
45	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> , 2018 , 140, 10757-10763	16.4	301
44	A Defect-Driven Metal-free Electrocatalyst for Oxygen Reduction in Acidic Electrolyte. <i>Chem</i> , 2018 , 4, 2345-2356	16.2	193
43	Defects on carbons for electrocatalytic oxygen reduction. <i>Chemical Society Reviews</i> , 2018 , 47, 7628-7658	8.5	282

42	Plasma-Triggered Synergy of Exfoliation, Phase Transformation, and Surface Engineering in Cobalt Diselenide for Enhanced Water Oxidation. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 16421-16425	16.4	84
41	Grafting Cobalt Diselenide on Defective Graphene for Enhanced Oxygen Evolution Reaction. <i>IScience</i> , 2018 , 7, 145-153	6.1	29
40	Scalable and controllable synthesis of atomic metal electrocatalysts assisted by an egg-box in alginate. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 18417-18425	13	38
39	Ultrathin Iron-Cobalt Oxide Nanosheets with Abundant Oxygen Vacancies for the Oxygen Evolution Reaction. <i>Advanced Materials</i> , 2017 , 29, 1606793	24	821
38	A Heterostructure Coupling of Exfoliated Ni-Fe Hydroxide Nanosheet and Defective Graphene as a Bifunctional Electrocatalyst for Overall Water Splitting. <i>Advanced Materials</i> , 2017 , 29, 1700017	24	651
37	NaBH ₄ regeneration from NaBO ₂ by high-energy ball milling and its plausible mechanism. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 13127-13135	6.7	28
36	System analysis of pulping process coupled with supercritical water gasification of black liquor for combined hydrogen, heat and power production. <i>Energy</i> , 2017 , 132, 238-247	7.9	51
35	Hydrothermal Synthesis of 3D Porous Structure Bi ₂ WO ₆ /Reduced Graphene Oxide Hydrogels for Enhancing Supercapacitor Performance. <i>ChemElectroChem</i> , 2017 , 4, 577-584	4.3	22
34	Defective graphene anchored iron-cobalt nanoparticles for efficient electrocatalytic oxygen reduction. <i>Chemical Communications</i> , 2017 , 53, 12140-12143	5.8	19
33	Platinum stabilized by defective activated carbon with excellent oxygen reduction performance in alkaline media. <i>Chinese Journal of Catalysis</i> , 2017 , 38, 1011-1020	11.3	8
32	Brønsted base site engineering of graphitic carbon nitride for enhanced photocatalytic activity. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 19227-19236	13	24
31	Carbon scaffold modified by metal (Ni) or non-metal (N) to enhance hydrogen storage of MgH ₂ through nanoconfinement. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 22933-22941	6.7	44
30	Three-dimensional NiCo ₂ O ₄ @NiWO ₄ core-shell nanowire arrays for high performance supercapacitors. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 1028-1034	13	201
29	Defective-Activated-Carbon-Supported Mn-Co Nanoparticles as a Highly Efficient Electrocatalyst for Oxygen Reduction. <i>Advanced Materials</i> , 2016 , 28, 8771-8778	24	139
28	Defect Graphene as a Trifunctional Catalyst for Electrochemical Reactions. <i>Advanced Materials</i> , 2016 , 28, 9532-9538	24	711
27	Facile Synthesis of CoWO ₄ Nanosheet Arrays Grown on Nickel Foam Substrates for Asymmetric Supercapacitors. <i>ChemElectroChem</i> , 2016 , 3, 1490-1496	4.3	65
26	Activated carbon becomes active for oxygen reduction and hydrogen evolution reactions. <i>Chemical Communications</i> , 2016 , 52, 8156-9	5.8	114
25	Seaweed biomass derived (Ni,Co)/CNT nanoaerogels: efficient bifunctional electrocatalysts for oxygen evolution and reduction reactions. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 6376-6384	13	135

24	Combination of nanosizing and interfacial effect: Future perspective for designing Mg-based nanomaterials for hydrogen storage. <i>Renewable and Sustainable Energy Reviews</i> , 2015 , 44, 289-303	16.2	128
23	Biomimetic CNT@TiO ₂ composite with enhanced photocatalytic properties. <i>Chemical Engineering Journal</i> , 2015 , 281, 60-68	14.7	54
22	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> , 2015 , 3, 8294-8299	13	49
21	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> , 2015 , 3, 22708-22715	13	62
20	Co ₃ O ₄ nanoparticle embedded carbonaceous fibres: a nanoconfinement effect on enhanced lithium-ion storage. <i>Chemical Communications</i> , 2015 , 51, 16267-70	5.8	27
19	Catalytically Enhanced Hydrogen Sorption in Mg-MgH ₂ by Coupling Vanadium-Based Catalyst and Carbon Nanotubes. <i>Materials</i> , 2015 , 8, 3491-3507	3.5	17
18	H ₂ O ₂ /C/MnO ₂ nanocomposite materials for high-performance supercapacitors. <i>Journal of Nanoparticle Research</i> , 2015 , 17, 1	2.3	16
17	Supercritical Water Gasification of Coal with Waste Black Liquor as Inexpensive Additives. <i>Energy & Fuels</i> , 2015 , 29, 384-391	4.1	50
16	Hierarchically structured WO ₃ @CNT@TiO ₂ NS composites with enhanced photocatalytic activity. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 5467-5473	13	23
15	Potassium niobate nanolamina: a promising adsorbent for entrapment of radioactive cations from water. <i>Scientific Reports</i> , 2014 , 4, 7313	4.9	21
14	Manipulating solar absorption and electron transport properties of rutile TiO ₂ photocatalysts via highly n-type F-doping. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 3513	13	49
13	Fluorine-doped porous single-crystal rutile TiO ₂ nanorods for enhancing photoelectrochemical water splitting. <i>Chemistry - A European Journal</i> , 2014 , 20, 11439-44	4.8	55
12	Enhanced photodynamic therapy of mixed phase TiO ₂ (B)/anatase nanofibers for killing of HeLa cells. <i>Nano Research</i> , 2014 , 7, 1659-1669	10	59
11	Effect of titanium based complex catalyst and carbon nanotubes on hydrogen storage performance of magnesium. <i>Science China Chemistry</i> , 2013 , 56, 451-458	7.9	3
10	Destabilization of Mg-H bonding through nano-interfacial confinement by unsaturated carbon for hydrogen desorption from MgH ₂ . <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 5814-20	3.6	62
9	Enhanced hydrogen desorption from Mg(BH ₄) ₂ by combining nanoconfinement and a Ni catalyst. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 3471	13	76
8	Dehydrogenation of Ammonia Borane Confined by Low-Density Porous Aromatic Framework. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 25694-25700	3.8	28
7	In-situ synthesize multi-walled carbon nanotubes@MnO ₂ nanoflake core-shell structured materials for supercapacitors. <i>Journal of Power Sources</i> , 2012 , 216, 508-514	8.9	70

6	Catalytically enhanced dehydrogenation of MgH ₂ by activated carbon supported PdVO _x (x=2.38) nanocatalyst. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 13393-13399	6.7	15
5	Confined LiBH ₄ : Enabling fast hydrogen release at ~100°C. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 18920-18926	6.7	38
4	Hydrogenation/dehydrogenation in MgH ₂ -activated carbon composites prepared by ball milling. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 7579-7585	6.7	43
3	Catalytic De/Hydrogenation in Mg by Co-Doped Ni and VO _x on Active Carbon: Extremely Fast Kinetics at Low Temperatures and High Hydrogen Capacity. <i>Advanced Energy Materials</i> , 2011 , 1, 387-393 ^{21.8}	4.8	48
2	Hydrogen Incorporation and Storage in Well-Defined Nanocrystals of Anatase Titanium Dioxide. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 25590-25594	3.8	92
1	Layer-by-layer assembly and electrochemical properties of sandwiched film of manganese oxide nanosheet and carbon nanotube. <i>Carbon</i> , 2009 , 47, 1534-1542	10.4	70