Xuecheng Yan

List of Publications by Year
in descending order

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45 papers	7,191 citations	168829 31 h-index	274796 44 g-index
47 all docs	47 docs citations	47 times ranked	9230 citing authors

#	Article	IF	Citations
1	Single Carbon Vacancy Traps Atomic Platinum for Hydrogen Evolution Catalysis. Journal of the American Chemical Society, 2022, 144, 2171-2178.	6.6	140
2	Ultra-dense carbon defects as highly active sites for oxygen reduction catalysis. CheM, 2022, 8, 2715-2733.	5.8	66
3	Defective Structures in Metal Compounds for Energyâ€Related Electrocatalysis. Small Structures, 2021, 2, 2000067.	6.9	97
4	Defect engineering and characterization of active sites for efficient electrocatalysis. Nanoscale, 2021, 13, 3327-3345.	2.8	60
5	Defective carbon-based materials: controllable synthesis and electrochemical applications. EnergyChem, 2021, 3, 100059.	10.1	34
6	Controllable synthesis of Feâ€“N₄ species for acidic oxygen reduction. , 2020, 2, 452-460.		50
7	A Directional Synthesis for Topological Defect in Carbon. CheM, 2020, 6, 2009-2023.	5.8	120
8	Clarifying the Origin of Oxygen Reduction Activity in Heteroatom-Modified Defective Carbon. Cell Reports Physical Science, 2020, 1, 100083.	2.8	35
9	Edgeâ€Rich Feâ€'N₄ Active Sites in Defective Carbon for Oxygen Reduction Catalysis. Advanced Materials, 2020, 32, e2000966.	11.1	215
10	A cascade surface immobilization strategy to access high-density and closely distanced atomic Pt sites for enhancing alkaline hydrogen evolution reaction. Journal of Materials Chemistry A, 2020, 8, 5255-5262.	5.2	21
11	One-step In-situ Synthesis of Vacancy-rich CoFe2O4@Defective Graphene Hybrids as Bifunctional Oxygen Electrocatalysts for Rechargeable Zn-Air Batteries. Chemical Research in Chinese Universities, 2020, 36, 479-487.	1.3	20
12	Identification of active sites for acidic oxygen reduction on carbon catalysts with and without nitrogen doping. Nature Catalysis, 2019, 2, 688-695.	16.1	423
13	Charge Polarization from Atomic Metals on Adjacent Graphitic Layers for Enhancing the Hydrogen Evolution Reaction. Angewandte Chemie, 2019, 131, 9504-9508.	1.6	10
14	Charge Polarization from Atomic Metals on Adjacent Graphitic Layers for Enhancing the Hydrogen Evolution Reaction. Angewandte Chemie - International Edition, 2019, 58, 9404-9408.	7.2	87
15	Probing the Active Sites of Carbonâ€Encapsulated Cobalt Nanoparticles for Oxygen Reduction. Small Methods, 2019, 3, 1800439.	4.6	33
16	Defective Carbons Derived from Macadamia Nut Shell Biomass for Efficient Oxygen Reduction and Supercapacitors. ChemElectroChem, 2018, 5, 1874-1879.	1.7	47
17	Graphene Defects Trap Atomic Ni Species for Hydrogen and Oxygen Evolution Reactions. CheM, 2018, 4, 285-297.	5.8	624
18	Assessment of sugarcane bagasse gasification in supercritical water for hydrogen production. International Journal of Hydrogen Energy, 2018, 43, 13711-13719.	3.8	59

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19	Activity Origins in Nanocarbons for the Electrocatalytic Hydrogen Evolution Reaction. Small, 2018, 14, e1800235.	5.2	68
20	Tuning oxygen vacancies in two-dimensional iron-cobalt oxide nanosheets through hydrogenation for enhanced oxygen evolution activity. Nano Research, 2018, 11, 3509-3518.	5.8	167
21	Defects on carbons for electrocatalytic oxygen reduction. Chemical Society Reviews, 2018, 47, 7628-7658.	18.7	432
22	Plasmaâ€Triggered Synergy of Exfoliation, Phase Transformation, and Surface Engineering in Cobalt Diselenide for Enhanced Water Oxidation. Angewandte Chemie - International Edition, 2018, 57, 16421-16425.	7.2	120
23	Grafting Cobalt Diselenide on Defective Graphene for Enhanced Oxygen Evolution Reaction. IScience, 2018, 7, 145-153.	1.9	39
24	Coordination of Atomic Coâ€“Pt Coupling Species at Carbon Defects as Active Sites for Oxygen Reduction Reaction. Journal of the American Chemical Society, 2018, 140, 10757-10763.	6.6	464
25	A Heterostructure Coupling of Exfoliated Niâ€“Fe Hydroxide Nanosheet and Defective Graphene as a Bifunctional Electrocatalyst for Overall Water Splitting. Advanced Materials, 2017, 29, 1700017.	11.1	845
26	Defective graphene anchored ironâ€“cobalt nanoparticles for efficient electrocatalytic oxygen reduction. Chemical Communications, 2017, 53, 12140-12143.	2.2	24
27	Hexagonal Sphericon Hematite with High Performance for Water Oxidation. Advanced Materials, 2017, 29, 1703792.	11.1	46
28	Platinum stabilized by defective activated carbon with excellent oxygen reduction performance in alkaline media. Chinese Journal of Catalysis, 2017, 38, 1011-1020.	6.9	13
29	Recent Progress in Oxygen Electrocatalysts for Zincâ€“Air Batteries. Small Methods, 2017, 1, 1700209.	4.6	183
30	Defectiveâ€Activatedâ€Carbonâ€Supported Mnâ€“Co Nanoparticles as a Highly Efficient Electrocatalyst for Oxygen Reduction. Advanced Materials, 2016, 28, 8771-8778.	11.1	175
31	Defect Graphene as a Trifunctional Catalyst for Electrochemical Reactions. Advanced Materials, 2016, 28, 9532-9538.	11.1	961
32	Boosting oxygen reduction and hydrogen evolution at the edge sites of a web-like carbon nanotube-graphene hybrid. Carbon, 2016, 107, 739-746.	5.4	25
33	Activated carbon becomes active for oxygen reduction and hydrogen evolution reactions. Chemical Communications, 2016, 52, 8156-8159.	2.2	145
34	Defect-driven oxygen reduction reaction (ORR) of carbon without any element doping. Inorganic Chemistry Frontiers, 2016, 3, 417-421.	3.0	146
35	Atomically isolated nickel species anchored on graphitized carbon for efficient hydrogen evolution electrocatalysis. Nature Communications, 2016, 7, 10667.	5.8	577
36	Metallic Ni nanocatalyst in situ formed from a metalâ€“organic-framework by mechanochemical reaction for hydrogen storage in magnesium. Journal of Materials Chemistry A, 2015, 3, 8294-8299.	5.2	65

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37	Y₂O₃:Yb³⁺/Er³⁺ Hollow Spheres with Controlled Inner Structures and Enhanced Upconverted Photoluminescence. Small, 2015, 11, 2768-2773.	5.2	35
38	Carbon for the oxygen reduction reaction: a defect mechanism. Journal of Materials Chemistry A, 2015, 3, 11736-11739.	5.2	261
39	Nanosheets Co₃O₄ Interleaved with Graphene for Highly Efficient Oxygen Reduction. ACS Applied Materials & Interfaces, 2015, 7, 21373-21380.	4.0	96
40	Shape controllable synthesis of NdFeO₃micro single crystals by a hydrothermal route. CrystEngComm, 2014, 16, 858-862.	1.3	42
41	One-step synthesis of nitrogen-doped microporous carbon materials as metal-free electrocatalysts for oxygen reduction reaction. Journal of Materials Chemistry A, 2014, 2, 11666-11671.	5.2	84
42	Catalytic Hydrogenation of Carbon Dioxide to Fuels. Current Organic Chemistry, 2014, 18, 1335-1345.	0.9	16
43	Synthesis of CePO₄ Nano-Wires with Improved Photoluminescent Properties by Co-Crystallizing with Nano-Sized CeO₂. Journal of Nanoscience and Nanotechnology, 2013, 13, 1498-1502.	0.9	4
44	Morphology-tailored synthesis of flower-like Y2O3:Eu3+ microspheres. Materials Research Bulletin, 2012, 47, 2135-2139.	2.7	3
45	Facile solvothermal synthesis of gear-shaped submicrostructured Y2O3:Eu3+ phosphor. Solid State Sciences, 2011, 13, 1060-1064.	1.5	13