

Xuecheng Yan

List of Publications by Year in descending order

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45
papers

7,191
citations

147801

31
h-index

243625

44
g-index

47
all docs

47
docs citations

47
times ranked

8082
citing authors

#	ARTICLE	IF	CITATIONS
1	Defect Graphene as a Trifunctional Catalyst for Electrochemical Reactions. <i>Advanced Materials</i> , 2016, 28, 9532-9538.	21.0	961
2	A Heterostructure Coupling of Exfoliated Ni ²⁺ /Fe Hydroxide Nanosheet and Defective Graphene as a Bifunctional Electrocatalyst for Overall Water Splitting. <i>Advanced Materials</i> , 2017, 29, 1700017.	21.0	845
3	Graphene Defects Trap Atomic Ni Species for Hydrogen and Oxygen Evolution Reactions. <i>Chem</i> , 2018, 4, 285-297.	11.7	624
4	Atomically isolated nickel species anchored on graphitized carbon for efficient hydrogen evolution electrocatalysis. <i>Nature Communications</i> , 2016, 7, 10667.	12.8	577
5	Coordination of Atomic Co ²⁺ /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.	13.7	464
6	Defects on carbons for electrocatalytic oxygen reduction. <i>Chemical Society Reviews</i> , 2018, 47, 7628-7658.	38.1	432
7	Identification of active sites for acidic oxygen reduction on carbon catalysts with and without nitrogen doping. <i>Nature Catalysis</i> , 2019, 2, 688-695.	34.4	423
8	Carbon for the oxygen reduction reaction: a defect mechanism. <i>Journal of Materials Chemistry A</i> , 2015, 3, 11736-11739.	10.3	261
9	Edge-Rich Fe ²⁺ /N ₄ Active Sites in Defective Carbon for Oxygen Reduction Catalysis. <i>Advanced Materials</i> , 2020, 32, e2000966.	21.0	215
10	Recent Progress in Oxygen Electrocatalysts for Zinc-Air Batteries. <i>Small Methods</i> , 2017, 1, 1700209.	8.6	183
11	Defective-Activated Carbon-Supported Mn ²⁺ /Co Nanoparticles as a Highly Efficient Electrocatalyst for Oxygen Reduction. <i>Advanced Materials</i> , 2016, 28, 8771-8778.	21.0	175
12	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.	10.4	167
13	Defect-driven oxygen reduction reaction (ORR) of carbon without any element doping. <i>Inorganic Chemistry Frontiers</i> , 2016, 3, 417-421.	6.0	146
14	Activated carbon becomes active for oxygen reduction and hydrogen evolution reactions. <i>Chemical Communications</i> , 2016, 52, 8156-8159.	4.1	145
15	Single Carbon Vacancy Traps Atomic Platinum for Hydrogen Evolution Catalysis. <i>Journal of the American Chemical Society</i> , 2022, 144, 2171-2178.	13.7	140
16	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.	13.8	120
17	A Directional Synthesis for Topological Defect in Carbon. <i>Chem</i> , 2020, 6, 2009-2023.	11.7	120
18	Defective Structures in Metal Compounds for Energy-Related Electrocatalysis. <i>Small Structures</i> , 2021, 2, 2000067.	12.0	97

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19	Nanosheets Co ₃ O ₄ Interleaved with Graphene for Highly Efficient Oxygen Reduction. ACS Applied Materials & Interfaces, 2015, 7, 21373-21380.	8.0	96
20	Charge Polarization from Atomic Metals on Adjacent Graphitic Layers for Enhancing the Hydrogen Evolution Reaction. Angewandte Chemie - International Edition, 2019, 58, 9404-9408.	13.8	87
21	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.	10.3	84
22	Activity Origins in Nanocarbons for the Electrocatalytic Hydrogen Evolution Reaction. Small, 2018, 14, e1800235.	10.0	68
23	Ultra-dense carbon defects as highly active sites for oxygen reduction catalysis. Chem, 2022, 8, 2715-2733.	11.7	66
24	Metallic Ni nanocatalyst in situ formed from a metal-organic-framework by mechanochemical reaction for hydrogen storage in magnesium. Journal of Materials Chemistry A, 2015, 3, 8294-8299.	10.3	65
25	Defect engineering and characterization of active sites for efficient electrocatalysis. Nanoscale, 2021, 13, 3327-3345.	5.6	60
26	Assessment of sugarcane bagasse gasification in supercritical water for hydrogen production. International Journal of Hydrogen Energy, 2018, 43, 13711-13719.	7.1	59
27	Controllable synthesis of Fe ₄ species for acidic oxygen reduction. , 2020, 2, 452-460.		50
28	Defective Carbons Derived from Macadamia Nut Shell Biomass for Efficient Oxygen Reduction and Supercapacitors. ChemElectroChem, 2018, 5, 1874-1879.	3.4	47
29	Hexagonal Sphericon Hematite with High Performance for Water Oxidation. Advanced Materials, 2017, 29, 1703792.	21.0	46
30	Shape controllable synthesis of NdFeO ₃ micro single crystals by a hydrothermal route. CrystEngComm, 2014, 16, 858-862.	2.6	42
31	Grafting Cobalt Diselenide on Defective Graphene for Enhanced Oxygen Evolution Reaction. IScience, 2018, 7, 145-153.	4.1	39
32	Y ₂ O ₃ :Yb ³⁺ /Er ³⁺ Hollow Spheres with Controlled Inner Structures and Enhanced Upconverted Photoluminescence. Small, 2015, 11, 2768-2773.	10.0	35
33	Clarifying the Origin of Oxygen Reduction Activity in Heteroatom-Modified Defective Carbon. Cell Reports Physical Science, 2020, 1, 100083.	5.6	35
34	Defective carbon-based materials: controllable synthesis and electrochemical applications. EnergyChem, 2021, 3, 100059.	19.1	34
35	Probing the Active Sites of Carbon-Encapsulated Cobalt Nanoparticles for Oxygen Reduction. Small Methods, 2019, 3, 1800439.	8.6	33
36	Boosting oxygen reduction and hydrogen evolution at the edge sites of a web-like carbon nanotube-graphene hybrid. Carbon, 2016, 107, 739-746.	10.3	25

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37	Defective graphene anchored iron-cobalt nanoparticles for efficient electrocatalytic oxygen reduction. <i>Chemical Communications</i> , 2017, 53, 12140-12143.	4.1	24
38	A cascade surface immobilization strategy to access high-density and closely distanced atomic Pt sites for enhancing alkaline hydrogen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2020, 8, 5255-5262.	10.3	21
39	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.	2.6	20
40	Catalytic Hydrogenation of Carbon Dioxide to Fuels. <i>Current Organic Chemistry</i> , 2014, 18, 1335-1345.	1.6	16
41	Facile solvothermal synthesis of gear-shaped submicrostructured Y ₂ O ₃ :Eu ³⁺ phosphor. <i>Solid State Sciences</i> , 2011, 13, 1060-1064.	3.2	13
42	Platinum stabilized by defective activated carbon with excellent oxygen reduction performance in alkaline media. <i>Chinese Journal of Catalysis</i> , 2017, 38, 1011-1020.	14.0	13
43	Charge Polarization from Atomic Metals on Adjacent Graphitic Layers for Enhancing the Hydrogen Evolution Reaction. <i>Angewandte Chemie</i> , 2019, 131, 9504-9508.	2.0	10
44	Synthesis of CePO ₄ Nano-Wires with Improved Photoluminescent Properties by Co-Crystallizing with Nano-Sized CeO ₂ . <i>Journal of Nanoscience and Nanotechnology</i> , 2013, 13, 1498-1502.	0.9	4
45	Morphology-tailored synthesis of flower-like Y ₂ O ₃ :Eu ³⁺ microspheres. <i>Materials Research Bulletin</i> , 2012, 47, 2135-2139.	5.2	3