

Dafeng Yan

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.

34
papers

4,446
citations

30
h-index

34
g-index

34
ext. papers

5,660
ext. citations

12.4
avg, IF

6
L-index

#	Paper	IF	Citations
34	Implanting cation vacancies in Ni-Fe LDHs for efficient oxygen evolution reactions of lithium-oxygen batteries. <i>Applied Catalysis B: Environmental</i> , 2021 , 285, 119792	21.8	26
33	Identification of the Dynamic Behavior of Oxygen Vacancy-Rich CoO for Oxygen Evolution Reaction. <i>Journal of the American Chemical Society</i> , 2020 , 142, 12087-12095	16.4	279
32	Coupling N and CO in HO to synthesize urea under ambient conditions. <i>Nature Chemistry</i> , 2020 , 12, 717-726	17.4	146
31	In-situ phase transition of WO ₃ boosting electron and hydrogen transfer for enhancing hydrogen evolution on Pt. <i>Nano Energy</i> , 2020 , 71, 104653	17.1	58
30	Defect Chemistry in Heterogeneous Catalysis: Recognition, Understanding, and Utilization. <i>ACS Catalysis</i> , 2020 , 10, 11082-11098	13.1	131
29	Regulation of Morphology and Electronic Structure of NiSe by Fe for High Effective Oxygen Evolution Reaction. <i>Chemistry - an Asian Journal</i> , 2020 , 15, 3845-3852	4.5	6
28	Insight into the design of defect electrocatalysts: From electronic structure to adsorption energy. <i>Materials Today</i> , 2019 , 31, 47-68	21.8	173
27	Engineering the electronic structure of Co ₃ O ₄ by carbon-doping for efficient overall water splitting. <i>Electrochimica Acta</i> , 2019 , 303, 316-322	6.7	65
26	Interfacial effects in supported catalysts for electrocatalysis. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 23432-23450	13	57
25	B?N Pairs Enriched Defective Carbon Nanosheets for Ammonia Synthesis with High Efficiency. <i>Small</i> , 2019 , 15, e1805029	11	119
24	Defect Engineering Strategies for Nitrogen Reduction Reactions under Ambient Conditions. <i>Small Methods</i> , 2019 , 3, 1800331	12.8	134
23	First-principles study of methanol adsorption on heteroatom-doped phosphorene. <i>Chinese Chemical Letters</i> , 2019 , 30, 207-210	8.1	13
22	Recent Advances on Non-precious Metal Porous Carbon-based Electrocatalysts for Oxygen Reduction Reaction. <i>ChemElectroChem</i> , 2018 , 5, 1775-1785	4.3	114
21	Iron-Doped NiCoP Porous Nanosheet Arrays as a Highly Efficient Electrocatalyst for Oxygen Evolution Reaction. <i>ACS Applied Energy Materials</i> , 2018 , 1, 571-579	6.1	65
20	N, P-dual doped carbon with trace Co and rich edge sites as highly efficient electrocatalyst for oxygen reduction reaction. <i>Science China Materials</i> , 2018 , 61, 679-685	7.1	48
19	Three-dimensional reduced graphene oxide/Mn ₃ O ₄ nanosheet hybrid decorated with palladium nanoparticles for highly efficient hydrogen evolution. <i>International Journal of Hydrogen Energy</i> , 2018 , 43, 3369-3377	6.7	15
18	Engineering the coordination geometry of metal-organic complex electrocatalysts for highly enhanced oxygen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 805-810	13	57

17	Recent Progress on Layered Double Hydroxides and Their Derivatives for Electrocatalytic Water Splitting. <i>Advanced Science</i> , 2018 , 5, 1800064	13.6	329
16	Enriched nucleation sites for Pt deposition on ultrathin WO ₃ nanosheets with unique interactions for methanol oxidation. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 23028-23033	13	49
15	Engineering MoS ₂ nanomesh with holes and lattice defects for highly active hydrogen evolution reaction. <i>Applied Catalysis B: Environmental</i> , 2018 , 239, 537-544	21.8	134
14	Recent Advances on Black Phosphorus for Energy Storage, Catalysis, and Sensor Applications. <i>Advanced Materials</i> , 2018 , 30, e1800295	24	166
13	In Situ Exfoliated, Edge-Rich, Oxygen-Functionalized Graphene from Carbon Fibers for Oxygen Electrocatalysis. <i>Advanced Materials</i> , 2017 , 29, 1606207	24	423
12	Defect Chemistry of Nonprecious-Metal Electrocatalysts for Oxygen Reactions. <i>Advanced Materials</i> , 2017 , 29, 1606459	24	943
11	Iron phosphide/N, P-doped carbon nanosheets as highly efficient electrocatalysts for oxygen reduction reaction over the whole pH range. <i>Electrochimica Acta</i> , 2017 , 254, 280-286	6.7	40
10	In situ growth of cobalt@cobalt-borate core-shell nanosheets as highly-efficient electrocatalysts for oxygen evolution reaction in alkaline/neutral medium. <i>Nanoscale</i> , 2017 , 9, 16059-16065	7.7	57
9	Atomic-Scale CoO _x Species in Metal-Organic Frameworks for Oxygen Evolution Reaction. <i>Advanced Functional Materials</i> , 2017 , 27, 1702546	15.6	279
8	Rapidly engineering the electronic properties and morphological structure of NiSe nanowires for the oxygen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 25494-25500	13	57
7	Monolayer MoS ₂ with S vacancies from interlayer spacing expanded counterparts for highly efficient electrochemical hydrogen production. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 16524-16530	13	107
6	Polyaniline-Reduced Graphene Oxide Hybrid Nanosheets with Nearly Vertical Orientation Anchoring Palladium Nanoparticles for Highly Active and Stable Electrocatalysis. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 169-76	9.5	54
5	Edge-selectively phosphorus-doped few-layer graphene as an efficient metal-free electrocatalyst for the oxygen evolution reaction. <i>Chemical Communications</i> , 2016 , 52, 13008-13011	5.8	64
4	Electropolymerized supermolecule derived N, P co-doped carbon nanofiber networks as a highly efficient metal-free electrocatalyst for the hydrogen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 13726-13730	13	109
3	Three-Dimensional Nitrogen-Doped Reduced Graphene Oxide-Carbon Nanotubes Architecture Supporting Ultrafine Palladium Nanoparticles for Highly Efficient Methanol Electrooxidation. <i>Chemistry - A European Journal</i> , 2015 , 21, 16631-8	4.8	32
2	Vertically oriented reduced graphene oxide supported dealloyed palladium-copper nanoparticles for methanol electrooxidation. <i>Journal of Power Sources</i> , 2015 , 278, 725-732	8.9	58
1	Palladium nanoparticles supported on vertically oriented reduced graphene oxide for methanol electro-oxidation. <i>ChemSusChem</i> , 2014 , 7, 2907-13	8.3	39