Dafeng Yan

List of Publications by Citations

34	4,446	30	34
papers	citations	h-index	g-index
34	5,660	12.4	6
ext. papers	ext. citations	avg, IF	L-index

#	Paper	IF	Citations
34	Defect Chemistry of Nonprecious-Metal Electrocatalysts for Oxygen Reactions. *Advanced Materials*, **2017**, 29, 1606459	24	943
33	In Situ Exfoliated, Edge-Rich, Oxygen-Functionalized Graphene from Carbon Fibers for Oxygen Electrocatalysis. *Advanced Materials*, **2017**, 29, 1606207	24	423
32	Recent Progress on Layered Double Hydroxides and Their Derivatives for Electrocatalytic Water Splitting. *Advanced Science*, **2018**, 5, 1800064	13.6	329
31	Identification of the Dynamic Behavior of Oxygen Vacancy-Rich CoO for Oxygen Evolution Reaction. *Journal of the American Chemical Society*, **2020**, 142, 12087-12095	16.4	279
30	Atomic-Scale CoOx Species in Metal□Organic Frameworks for Oxygen Evolution Reaction. *Advanced Functional Materials*, **2017**, 27, 1702546	15.6	279
29	Insight into the design of defect electrocatalysts: From electronic structure to adsorption energy. *Materials Today*, **2019**, 31, 47-68	21.8	173
28	Recent Advances on Black Phosphorus for Energy Storage, Catalysis, and Sensor Applications. *Advanced Materials*, **2018**, 30, e1800295	24	166
27	Coupling N and CO in HO to synthesize urea under ambient conditions. *Nature Chemistry*, **2020**, 12, 717-724	17.6	146
26	Defect Engineering Strategies for Nitrogen Reduction Reactions under Ambient Conditions. *Small Methods*, **2019**, 3, 1800331	12.8	134
25	Engineering MoS2 nanomesh with holes and lattice defects for highly active hydrogen evolution reaction. *Applied Catalysis B: Environmental*, **2018**, 239, 537-544	21.8	134
24	Defect Chemistry in Heterogeneous Catalysis: Recognition, Understanding, and Utilization. *ACS Catalysis*, **2020**, 10, 11082-11098	13.1	131
23	B?N Pairs Enriched Defective Carbon Nanosheets for Ammonia Synthesis with High Efficiency. *Small* , **2019**, 15, e1805029	11	119
22	Recent Advances on Non-precious Metal Porous Carbon-based Electrocatalysts for Oxygen Reduction Reaction. *ChemElectroChem*, **2018**, 5, 1775-1785	4.3	114
21	Electropolymerized supermolecule derived N, P co-doped carbon nanofiber networks as a highly efficient metal-free electrocatalyst for the hydrogen evolution reaction. *Journal of Materials Chemistry A*, **2016**, 4, 13726-13730	13	109
20	Monolayer MoS2 with S vacancies from interlayer spacing expanded counterparts for highly efficient electrochemical hydrogen production. *Journal of Materials Chemistry A*, **2016**, 4, 16524-16530	13	107
19	Engineering the electronic structure of Co3O4 by carbon-doping for efficient overall water splitting. *Electrochimica Acta*, **2019**, 303, 316-322	6.7	65
18	Iron-Doped NiCoP Porous Nanosheet Arrays as a Highly Efficient Electrocatalyst for Oxygen Evolution Reaction. *ACS Applied Energy Materials*, **2018**, 1, 571-579	6.1	65

17	Edge-selectively phosphorus-doped few-layer graphene as an efficient metal-free electrocatalyst for the oxygen evolution reaction. *Chemical Communications*, **2016**, 52, 13008-13011	5.8	64
16	In-situ phase transition of WO3 boosting electron and hydrogen transfer for enhancing hydrogen evolution on Pt. *Nano Energy*, **2020**, 71, 104653	17.1	58
15	Vertically oriented reduced graphene oxide supported dealloyed palladium□copper nanoparticles for methanol electrooxidation. *Journal of Power Sources*, **2015**, 278, 725-732	8.9	58
14	In situ growth of cobalt@cobalt-borate core-shell nanosheets as highly-efficient electrocatalysts for oxygen evolution reaction in alkaline/neutral medium. *Nanoscale*, **2017**, 9, 16059-16065	7.7	57
13	Interfacial effects in supported catalysts for electrocatalysis. *Journal of Materials Chemistry A*, **2019**, 7, 23432-23450	13	57
12	Rapidly engineering the electronic properties and morphological structure of NiSe nanowires for the oxygen evolution reaction. *Journal of Materials Chemistry A*, **2017**, 5, 25494-25500	13	57
11	Engineering the coordination geometry of metal□organic complex electrocatalysts for highly enhanced oxygen evolution reaction. *Journal of Materials Chemistry A*, **2018**, 6, 805-810	13	57
10	Polyaniline-Reduced Graphene Oxide Hybrid Nanosheets with Nearly Vertical Orientation Anchoring Palladium Nanoparticles for Highly Active and Stable Electrocatalysis. *ACS Applied Materials & Interfaces*, **2016**, 8, 169-76	9.5	54
9	Enriched nucleation sites for Pt deposition on ultrathin WO3 nanosheets with unique interactions for methanol oxidation. *Journal of Materials Chemistry A*, **2018**, 6, 23028-23033	13	49
8	N, P-dual doped carbon with trace Co and rich edge sites as highly efficient electrocatalyst for oxygen reduction reaction. *Science China Materials*, **2018**, 61, 679-685	7.1	48
7	Iron phosphide/N, P-doped carbon nanosheets as highly efficient electrocatalysts for oxygen reduction reaction over the whole pH range. *Electrochimica Acta*, **2017**, 254, 280-286	6.7	40
6	Palladium nanoparticles supported on vertically oriented reduced graphene oxide for methanol electro-oxidation. *ChemSusChem*, **2014**, 7, 2907-13	8.3	39
5	Three-Dimensional Nitrogen-Doped Reduced Graphene Oxide-Carbon Nanotubes Architecture Supporting Ultrafine Palladium Nanoparticles for Highly Efficient Methanol Electrooxidation. *Chemistry - A European Journal*, **2015**, 21, 16631-8	4.8	32
4	Implanting cation vacancies in Ni-Fe LDHs for efficient oxygen evolution reactions of lithium-oxygen batteries. *Applied Catalysis B: Environmental*, **2021**, 285, 119792	21.8	26
3	Three-dimensional reduced graphene oxide□Mn 3 O 4 nanosheet hybrid decorated with palladium nanoparticles for highly efficient hydrogen evolution. *International Journal of Hydrogen Energy*, **2018**, 43, 3369-3377	6.7	15
2	First-principles study of methanol adsorption on heteroatom-doped phosphorene. *Chinese Chemical Letters*, **2019**, 30, 207-210	8.1	13
1	Regulation of Morphology and Electronic Structure of NiSe by Fe for High Effective Oxygen Evolution Reaction. *Chemistry - an Asian Journal*, **2020**, 15, 3845-3852	4.5	6