Peng Zhang

List of Publications by Citations

22 papers	298 citations	10 h-index	17 g-index
22 ext. papers	430 ext. citations	4.3 avg, IF	3.36 L-index

#	Paper	IF	Citations
22	Two-Dimensional π-Conjugated Metal Bis(dithiolene) Complex Nanosheets as Selective Catalysts for Oxygen Reduction Reaction. *Journal of Physical Chemistry C*, **2015**, 119, 28028-28037	3.8	64
21	From two-dimension to one-dimension: the curvature effect of silicon-doped graphene and carbon nanotubes for oxygen reduction reaction. *Physical Chemistry Chemical Physics*, **2014**, 16, 17479-86	3.6	42
20	Mechanistic analysis of multiple processes controlling solar-driven HO synthesis using engineered polymeric carbon nitride. *Nature Communications*, **2021**, 12, 3701	17.4	35
19	Size effect of oxygen reduction reaction on nitrogen-doped graphene quantum dots. *RSC Advances*, **2018**, 8, 531-536	3.7	23
18	Oxygen reduction reaction on nitrogen-doped graphene nanoribbons: A density functional theory study. *Chemical Physics Letters*, **2016**, 663, 123-127	2.5	21
17	Active sites and mechanism of the direct conversion of methane and carbon dioxide to acetic acid over the zinc-modified H-ZSM-5 zeolite. *Catalysis Science and Technology*, **2019**, 9, 6297-6307	5.5	15
16	First-principles design of bifunctional oxygen reduction and evolution catalysts through bimetallic centers in metal–organic frameworks. *Catalysis Science and Technology*, **2018**, 8, 3666-3674	5.5	13
15	Oxygen reduction reaction on M-S4 embedded graphene: A density functional theory study. *Chemical Physics Letters*, **2015**, 641, 112-116	2.5	12
14	Adjusting the electronic properties of silicon carbide nanoribbons by introducing edge functionalization. *RSC Advances*, **2014**, 4, 35042-35047	3.7	12
13	Curvature effect of O2 adsorption and dissociation on SiC nanotubes and nanosheet. *Chemical Physics Letters*, **2015**, 619, 92-96	2.5	11
12	Transition metal-doped α-borophene as potential oxygen and hydrogen evolution electrocatalyst: A density functional theory study. *Catalysis Communications*, **2020**, 144, 106090	3.2	10
11	Copper–Carbon: An Efficient Catalyst for Oxygen Reduction. *ACS Applied Energy Materials*, **2019**, 2, 6295-6301	5.5	8
10	Metal-Organic Framework Derived N/C Supported Austenite Nanoparticles as Efficient Oxygen Reduction Catalysts. *ChemNanoMat*, **2019**, 5, 525-530	3.5	7
9	Enhanced electrocatalytic activity of nitrogen-doped olympicene/graphene hybrids for the oxygen reduction reaction. *Physical Chemistry Chemical Physics*, **2016**, 18, 22799-804	3.6	5
8	Oxygen reduction reaction on M3(hexaiminobenzene)2: A density function theory study. *Catalysis Communications*, **2018**, 115, 17-20	3.2	5
7	Metal-bipyridine complexes as electrocatalysts for the reduction of CO: a density functional theory study. *Physical Chemistry Chemical Physics*, **2019**, 21, 23742-23748	3.6	5
6	Bimetallic Cu–Zn Co-Doped Porous N/C as Efficient Catalysts for Oxygen Reduction Reaction and Oxidation of 1,2-Propanediol. *ChemCatChem*, **2020**, 12, 584-592	5.2	4

5	Rapid pollutant degradation by peroxymonosulfate an unusual mediated-electron transfer pathway under spatial-confinement.. *RSC Advances*, **2022**, 12, 5236-5244	3.7	2
4	Mechanistic studies of oxygen reduction and evolution reactions on Ni3S2 surfaces. *Applied Catalysis A: General*, **2021**, 624, 118324	5.1	2
3	The effects of surface group functionalization and strain on the electronic structures of two-dimensional silicon carbide. *Chemical Physics Letters*, **2015**, 628, 60-65	2.5	1
2	Transition metal-doped tetra-MoN2 monolayers as an electrochemical catalyst for CO2 reduction: A density functional theory study. *Catalysis Communications*, **2021**, 149, 106212	3.2	1
1	Computational screening of transition-metal doped boron nanotubes as efficient electrocatalysts for water splitting.. *RSC Advances*, **2022**, 12, 6841-6847	3.7	