

Peng Zhang

List of Publications by Year in descending order

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22
papers

565
citations

858243

12
h-index

799663

21
g-index

22
all docs

22
docs citations

22
times ranked

781
citing authors

#	ARTICLE	IF	CITATIONS
1	Rapid pollutant degradation by peroxymonosulfate <i>via</i> an unusual mediated-electron transfer pathway under spatial-confinement. RSC Advances, 2022, 12, 5236-5244.	1.7	9
2	Computational screening of transition-metal doped boron nanotubes as efficient electrocatalysts for water splitting. RSC Advances, 2022, 12, 6841-6847.	1.7	0
3	Transition metal-doped tetra-MoN ₂ monolayers as an electrochemical catalyst for CO ₂ reduction: A density functional theory study. Catalysis Communications, 2021, 149, 106212.	1.6	7
4	Mechanistic analysis of multiple processes controlling solar-driven H ₂ O ₂ synthesis using engineered polymeric carbon nitride. Nature Communications, 2021, 12, 3701.	5.8	175
5	Mechanistic studies of oxygen reduction and evolution reactions on Ni ₃ S ₂ surfaces. Applied Catalysis A: General, 2021, 624, 118324.	2.2	6
6	Bimetallic Cu ⁺ /Zn ²⁺ Doped Porous N/C as Efficient Catalysts for Oxygen Reduction Reaction and Oxidation of 1,2-Propenediol. ChemCatChem, 2020, 12, 584-592.	1.8	10
7	Transition metal-doped \hat{I} -borophene as potential oxygen and hydrogen evolution electrocatalyst: A density functional theory study. Catalysis Communications, 2020, 144, 106090.	1.6	20
8	Copper ⁺ -Carbon: An Efficient Catalyst for Oxygen Reduction. ACS Applied Energy Materials, 2019, 2, 6295-6301.	2.5	22
9	Metal ⁺ -bipyridine complexes as electrocatalysts for the reduction of CO ₂ : a density functional theory study. Physical Chemistry Chemical Physics, 2019, 21, 23742-23748.	1.3	9
10	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.	2.1	28
11	Metal ⁺ -Organic Framework Derived N/C Supported Austenite Nanoparticles as Efficient Oxygen Reduction Catalysts. ChemNanoMat, 2019, 5, 525-530.	1.5	9
12	Size effect of oxygen reduction reaction on nitrogen-doped graphene quantum dots. RSC Advances, 2018, 8, 531-536.	1.7	37
13	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.	2.1	21
14	Oxygen reduction reaction on M ₃ (hexaiminobenzene) ₂ : A density function theory study. Catalysis Communications, 2018, 115, 17-20.	1.6	6
15	Enhanced electrocatalytic activity of nitrogen-doped olympicene/graphene hybrids for the oxygen reduction reaction. Physical Chemistry Chemical Physics, 2016, 18, 22799-22804.	1.3	7
16	Oxygen reduction reaction on nitrogen-doped graphene nanoribbons: A density functional theory study. Chemical Physics Letters, 2016, 663, 123-127.	1.2	28
17	The effects of surface group functionalization and strain on the electronic structures of two-dimensional silicon carbide. Chemical Physics Letters, 2015, 628, 60-65.	1.2	1
18	Oxygen reduction reaction on M-S ₄ embedded graphene: A density functional theory study. Chemical Physics Letters, 2015, 641, 112-116.	1.2	16

#	ARTICLE	IF	CITATIONS
19	Two-Dimensional π -Conjugated Metal Bis(dithiolene) Complex Nanosheets as Selective Catalysts for Oxygen Reduction Reaction. <i>Journal of Physical Chemistry C</i> , 2015, 119, 28028-28037.	1.5	76
20	Curvature effect of O ₂ adsorption and dissociation on SiC nanotubes and nanosheet. <i>Chemical Physics Letters</i> , 2015, 619, 92-96.	1.2	13
21	Adjusting the electronic properties of silicon carbide nanoribbons by introducing edge functionalization. <i>RSC Advances</i> , 2014, 4, 35042-35047.	1.7	17
22	From two-dimension to one-dimension: the curvature effect of silicon-doped graphene and carbon nanotubes for oxygen reduction reaction. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 17479-17486.	1.3	48