Zhen Feng

List of Publications by Year
in descending order

28 papers	554 citations	566801 15 h-index	642321 23 g-index
28 all docs	28 docs citations	28 times ranked	420 citing authors

#	Article	IF	Citations
1	Two-dimensional metalâ€“organic framework Mo₃(C₂O)₁₂ as a promising single-atom catalyst for selective nitrogen-to-ammonia conversion. Journal of Materials Chemistry A, 2022, 10, 4731-4738.	5.2	20
2	Theoretical Investigation on the Hydrogen Evolution, Oxygen Evolution, and Oxygen Reduction Reactions Performances of Two-Dimensional Metal-Organic Frameworks Fe3(C2X)12 (X = NH, O, S). Molecules, 2022, 27, 1528.	1.7	10
3	Theoretical insights into the CO/NO oxidation mechanisms on single-atom catalysts anchored H4,4,4-graphyne and H4,4,4-graphyne/graphene sheets. Fuel, 2022, 319, 123810.	3.4	8
4	Theoretical computation of the electrocatalytic performance of CO2 reduction and hydrogen evolution reactions on graphdiyne monolayer supported precise number of copper atoms. International Journal of Hydrogen Energy, 2021, 46, 5378-5389.	3.8	41
5	Theoretical investigation of CO2 electroreduction on N (B)-doped graphdiyne mononlayer supported single copper atom. Applied Surface Science, 2021, 538, 148145.	3.1	34
6	Nitrogen and boron coordinated single-atom catalysts for low-temperature CO/NO oxidations. Journal of Materials Chemistry A, 2021, 9, 15329-15345.	5.2	26
7	Comparative Study of NO and CO Oxidation Reactions on Singleâ€Atom Catalysts Anchored Grapheneâ€like Monolayer. ChemPhysChem, 2021, 22, 606-618.	1.0	6
8	Gas detection for NO2 and SO2 based on tape-heme monolayer. Molecular Physics, 2021, 119, .	0.8	0
9	Band engineering of large scale graphene/hexagonal boron nitride in-plane heterostructure: Role of the connecting angle. Physica E: Low-Dimensional Systems and Nanostructures, 2021, 131, 114751.	1.3	6
10	Magnetic and electronic properties of two-dimensional metal-organic frameworks TM₃(C₂NH)₁₂ *. Chinese Physics B, 2021, 30, 097102.	0.7	5
11	Gas adsorption induces the electronic and magnetic properties of metal modified divacancy graphene. Journal of Physics and Chemistry of Solids, 2020, 136, 109151.	1.9	5
12	Charge-compensated co-doping of graphdiyne with boron and nitrogen to form metal-free electrocatalysts for the oxygen reduction reaction. Physical Chemistry Chemical Physics, 2020, 22, 1493-1501.	1.3	32
13	O-doped graphdiyne as metal-free catalysts for nitrogen reduction reaction. Molecular Catalysis, 2020, 483, 110705.	1.0	44
14	Atomic alkali metal anchoring on graphdiyne as single-atom catalysts for capture and conversion of CO2 to HCOOH. Molecular Catalysis, 2020, 494, 111142.	1.0	22
15	Single-atom metal-modified graphenylene as a high-activity catalyst for CO and NO oxidation. Physical Chemistry Chemical Physics, 2020, 22, 16224-16235.	1.3	18
16	Formation, electronic, gas sensing and catalytic characteristics of graphene-like materials: A first-principles study. Applied Surface Science, 2020, 530, 147178.	3.1	21
17	Two-dimensional halogen-substituted graphdiyne: first-principles investigation of mechanical, electronic, optical, and photocatalytic properties. Journal of Materials Science, 2020, 55, 8220-8230.	1.7	17
18	Bioinspired Mo tape-porphyrin as an efficient and selective electrocatalyst for ammonia synthesis. Applied Surface Science, 2020, 520, 146202.	3.1	11

#	Article	IF	Citations
19	Graphdiyne coordinated transition metals as single-atom catalysts for nitrogen fixation. Physical Chemistry Chemical Physics, 2020, 22, 9216-9224.	1.3	76
20	BN cluster-doped graphdiyne as visible-light assisted metal-free catalysts for conversion CO₂ to hydrocarbon fuels. Nanotechnology, 2020, 31, 495401.	1.3	16
21	Molecule-level graphdiyne coordinated transition metals as a new class of bifunctional electrocatalysts for oxygen reduction and oxygen evolution reactions. Physical Chemistry Chemical Physics, 2019, 21, 19651-19659.	1.3	45
22	Oxygen molecule dissociation on heteroatom doped graphdiyne. Applied Surface Science, 2019, 494, 421-429.	3.1	16
23	Graphdiyne doped with sp-hybridized nitrogen atoms at acetylenic sites as potential metal-free electrocatalysts for oxygen reduction reaction. Journal of Physics Condensed Matter, 2019, 31, 465201.	0.7	9
24	Theoretical evaluation on single-atom Fe doped divacancy graphene for catalytic CO and NO oxidation by O2 molecules. Molecular Catalysis, 2019, 476, 110524.	1.0	14
25	Effect of toxic ligands on O2 binding to heme and their toxicity mechanism. Physical Chemistry Chemical Physics, 2019, 21, 14957-14963.	1.3	2
26	Importance of heteroatom doping site in tuning the electronic structure and magnetic properties of graphdiyne. Physica E: Low-Dimensional Systems and Nanostructures, 2019, 114, 113590.	1.3	17
27	Mechanistic insight into the selective catalytic oxidation for NO and CO on co-doping graphene sheet: A theoretical study. Fuel, 2019, 253, 1531-1544.	3.4	31
28	Size-dependent magnetism of patterned MoTe₂ monolayer. Materials Research Express, 2019, 6, 126115.	0.8	2