Zhen Feng

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/1451306/publications.pdf

Version: 2024-02-01

28	554	566801 15	642321 23
papers	citations	h-index	g-index

28	28	28	420
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Graphdiyne coordinated transition metals as single-atom catalysts for nitrogen fixation. Physical Chemistry Chemical Physics, 2020, 22, 9216-9224.	1.3	76
2	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
3	O-doped graphdiyne as metal-free catalysts for nitrogen reduction reaction. Molecular Catalysis, 2020, 483, 110705.	1.0	44
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	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
7	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
8	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
9	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
10	Formation, electronic, gas sensing and catalytic characteristics of graphene-like materials: A first-principles study. Applied Surface Science, 2020, 530, 147178.	3.1	21
11	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
12	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
13	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
14	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
15	Oxygen molecule dissociation on heteroatom doped graphdiyne. Applied Surface Science, 2019, 494, 421-429.	3.1	16
16	BN cluster-doped graphdiyne as visible-light assisted metal-free catalysts for conversion CO₂ to hydrocarbon fuels. Nanotechnology, 2020, 31, 495401.	1.3	16
17	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
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	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
20	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
21	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
22	Comparative Study of NO and CO Oxidation Reactions on Singleâ€Atom Catalysts Anchored Grapheneâ€like Monolayer. ChemPhysChem, 2021, 22, 606-618.	1.0	6
23	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
24	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
25	Magnetic and electronic properties of two-dimensional metal-organic frameworks TM₃(C₂NH)₁₂ *. Chinese Physics B, 2021, 30, 097102.	0.7	5
26	Effect of toxic ligands on O2 binding to heme and their toxicity mechanism. Physical Chemistry Chemical Physics, 2019, 21, 14957-14963.	1.3	2
27	Size-dependent magnetism of patterned MoTe₂ monolayer. Materials Research Express, 2019, 6, 126115.	0.8	2
28	Gas detection for NO2 and SO2 based on tape-heme monolayer. Molecular Physics, 2021, 119, .	0.8	0