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List of Publications by Year in descending order

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Version: 2024-02-01

36
papers

559
citations

623734

14
h-index

677142

22
g-index

36
all docs

36
docs citations

36
times ranked

593
citing authors

#	ARTICLE	IF	CITATIONS
1	Temperature-induced orbital polarizations and tunable charge dynamics in layered double perovskite thin films. <i>Materials Today Energy</i> , 2022, 24, 100921.	4.7	5
2	Ethylene Carbonate Adsorption and Decomposition on Pristine and Defective ZnO(101̄...0) Surfaces: A First-Principles Study. <i>Journal of Physical Chemistry C</i> , 2022, 126, 2151-2160.	3.1	5
3	Significant role of thorny surface morphology of polyaniline on adsorption of triiodide ions towards counter electrode in dye-sensitized solar cells. <i>New Journal of Chemistry</i> , 2021, 45, 5958-5970.	2.8	11
4	Density functional and microkinetic study of CO ₂ hydrogenation to methanol on subnanometer Pd cluster doped by transition metal (M= Cu, Ni, Pt, Rh). <i>International Journal of Hydrogen Energy</i> , 2021, 46, 14418-14428.	7.1	19
5	Distinct Behaviors of Cu- and Ni-ZSM-5 Zeolites toward the Post-activation Reactions of Methane. <i>Journal of Physical Chemistry C</i> , 2021, 125, 19333-19344.	3.1	6
6	Formation of Tilted FeN ₄ Configuration as the Origin of Oxygen Reduction Reaction Activity Enhancement on a Pyrolyzed Fe-N-C Catalyst with FeN ₄ -Edge Active Sites. <i>Journal of Physical Chemistry C</i> , 2021, 125, 19682-19696.	3.1	12
7	Coadsorption of hydrazine and OH on the Ni(211) surface: A DFT study. <i>Surface Science</i> , 2021, 714, 121931.	1.9	2
8	Coadsorption of hydrazine (N ₂ H ₄) and OH on NiZn surface: A DFT-based study. <i>Surface Science</i> , 2020, 691, 121505.	1.9	5
9	Novel Mechanistic Insights into Methane Activation over Fe and Cu Active Sites in Zeolites: A Comparative DFT Study Using Meta-GGA Functionals. <i>Journal of Physical Chemistry C</i> , 2020, 124, 18112-18125.	3.1	24
10	Dissociative Oxygen Reduction Reaction Mechanism on the Neighboring Active Sites of a Boron-Doped Pyrolyzed Fe-N-C Catalyst. <i>Journal of Physical Chemistry C</i> , 2020, 124, 11383-11391.	3.1	32
11	Effect of surface defects on the interaction of the oxygen molecule with the ZnO(101̄,0) surface. <i>New Journal of Chemistry</i> , 2020, 44, 7376-7385.	2.8	15
12	PWDFT.jl: A Julia package for electronic structure calculation using density functional theory and plane wave basis. <i>Computer Physics Communications</i> , 2020, 256, 107372.	7.5	6
13	DFT and microkinetic investigation of methanol synthesis <i>via</i> CO ₂ hydrogenation on Ni(111)-based surfaces. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 20276-20286.	2.8	26
14	Oxygen reduction reaction mechanism on a phosphorus-doped pyrolyzed graphitic Fe/N/C catalyst. <i>New Journal of Chemistry</i> , 2019, 43, 11408-11418.	2.8	19
15	Density functional study of methyl butanoate adsorption and its C=O bonds cleavage on MoS ₂ -based catalyst with various loads of Ni promoters. <i>Journal of Physics Condensed Matter</i> , 2019, 31, 365001.	1.8	8
16	Theoretical study of CO ₂ hydrogenation to methanol on isolated small Pd clusters. <i>Journal of Energy Chemistry</i> , 2019, 35, 79-87.	12.9	30
17	Density Functional Study on Benzene, Toluene, Ethylbenzene and Xylene Adsorptions on ZnO(100) Surface. <i>Molekul</i> , 2019, 14, 37.	0.3	9
18	Computational Design of Ni-Zn Based Catalyst for Direct Hydrazine Fuel Cell Catalyst Using Density Functional Theory. <i>Procedia Engineering</i> , 2017, 170, 148-153.	1.2	10

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19	Hydrogen Adsorption on Fe-based Metal Organic Frameworks: DFT Study. <i>Procedia Engineering</i> , 2017, 170, 136-140.	1.2	13
20	Boron and Nitrogen Co-doping Configuration on Pyrolyzed Fe-N 4 /C Catalyst. <i>Procedia Engineering</i> , 2017, 170, 131-135.	1.2	14
21	Selectivity of CO and NO adsorption on ZnO (0002) surfaces: A DFT investigation. <i>Applied Surface Science</i> , 2017, 410, 373-382.	6.1	40
22	First principles study of oxygen molecule interaction with the graphitic active sites of a boron-doped pyrolyzed Fe-N-C catalyst. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 23497-23504.	2.8	36
23	Conformational effects on hydrazine and OH coadsorption on Ni(111): A first-principles investigation. <i>Surface Science</i> , 2017, 664, 185-193.	1.9	16
24	Enhanced molecular adsorption of ethylene on reduced anatase TiO ₂ (001): role of surface O-vacancies. <i>RSC Advances</i> , 2016, 6, 92241-92251.	3.6	13
25	Computational Density Functional Theory Study of Hydrazine Adsorption on Ni(110) Surface. <i>Advanced Materials Research</i> , 2015, 1112, 217-220.	0.3	1
26	A Theoretical Study of Ligand Effects on the Electronic Structures of Ligated Zinc Porphyrin using Density Functional Theory. <i>Journal of the Vacuum Society of Japan</i> , 2014, 57, 102-110.	0.3	6
27	First Principle Study of Hydrazine and OH ⁻ Co-Adsorption on Ni(111) in High Coverage System. <i>Advanced Materials Research</i> , 2014, 893, 35-38.	0.3	2
28	Cr, Fe - Doped Anatase TiO ₂ Photocatalyst: DFT+U Investigation on Band Gap. <i>Advanced Materials Research</i> , 2014, 893, 31-34.	0.3	3
29	Adsorption of formaldehyde and formyl intermediates on Pt, PtRu-, and PtRuMo-alloy surfaces: A density functional study. <i>Applied Surface Science</i> , 2013, 266, 405-409.	6.1	10
30	A First Principles Study on Zinc-Porphyrin Interaction with O ₂ in Zinc-Porphyrin(Oxygen) Complex. <i>Journal of the Physical Society of Japan</i> , 2012, 81, 124301.	1.6	17
31	Theoretical Study on Hydrazine Chemisorption on Transition Metal Surfaces. <i>Journal of the Physical Society of Japan</i> , 2012, 81, 124705.	1.6	11
32	First principles investigations of hydrazine adsorption conformations on Ni(111) surface. <i>Surface Science</i> , 2012, 606, 766-771.	1.9	45
33	First principles calculation on the adsorption of water on lithium-montmorillonite (Li-MMT). <i>Journal of Physics Condensed Matter</i> , 2012, 24, 475506.	1.8	11
34	Theoretical study of hydrazine adsorption on Pt(111): Anti or cis?. <i>Surface Science</i> , 2011, 605, 1347-1353.	1.9	27
35	Hydrazine (N ₂ H ₄) adsorption on Ni(100) - Density functional theory investigation. <i>Surface Science</i> , 2010, 604, 245-251.	1.9	48
36	Pathways for SO ₂ dissociation on Cu(100): density functional theory. <i>Journal of Physics Condensed Matter</i> , 2007, 19, 365244.	1.8	2