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List of Publications by Year in descending order

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papers

559
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623734

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36
docs citations

36
times ranked

593
citing authors

#	ARTICLE	IF	CITATIONS
1	Hydrazine (N ₂ H ₄) adsorption on Ni(100) – Density functional theory investigation. Surface Science, 2010, 604, 245-251.	1.9	48
2	First principles investigations of hydrazine adsorption conformations on Ni(111) surface. Surface Science, 2012, 606, 766-771.	1.9	45
3	Selectivity of CO and NO adsorption on ZnO (0002) surfaces: A DFT investigation. Applied Surface Science, 2017, 410, 373-382.	6.1	40
4	First principles study of oxygen molecule interaction with the graphitic active sites of a boron-doped pyrolyzed Fe–N–C catalyst. Physical Chemistry Chemical Physics, 2017, 19, 23497-23504.	2.8	36
5	Dissociative Oxygen Reduction Reaction Mechanism on the Neighboring Active Sites of a Boron-Doped Pyrolyzed Fe–N–C Catalyst. Journal of Physical Chemistry C, 2020, 124, 11383-11391.	3.1	32
6	Theoretical study of CO ₂ hydrogenation to methanol on isolated small Pd clusters. Journal of Energy Chemistry, 2019, 35, 79-87.	12.9	30
7	Theoretical study of hydrazine adsorption on Pt(111): Anti or cis?. Surface Science, 2011, 605, 1347-1353.	1.9	27
8	DFT and microkinetic investigation of methanol synthesis <i>via</i> CO ₂ hydrogenation on Ni(111)-based surfaces. Physical Chemistry Chemical Physics, 2019, 21, 20276-20286.	2.8	26
9	Novel Mechanistic Insights into Methane Activation over Fe and Cu Active Sites in Zeolites: A Comparative DFT Study Using Meta-GGA Functionals. Journal of Physical Chemistry C, 2020, 124, 18112-18125.	3.1	24
10	Oxygen reduction reaction mechanism on a phosphorus-doped pyrolyzed graphitic Fe/N/C catalyst. New Journal of Chemistry, 2019, 43, 11408-11418.	2.8	19
11	Density functional and microkinetic study of CO ₂ hydrogenation to methanol on subnanometer Pd cluster doped by transition metal (M= Cu, Ni, Pt, Rh). International Journal of Hydrogen Energy, 2021, 46, 14418-14428.	7.1	19
12	A First Principles Study on Zinc–Porphyrin Interaction with O ₂ in Zinc–Porphyrin(Oxygen) Complex. Journal of the Physical Society of Japan, 2012, 81, 124301.	1.6	17
13	Conformational effects on hydrazine and OH coadsorption on Ni(111): A first-principles investigation. Surface Science, 2017, 664, 185-193.	1.9	16
14	Effect of surface defects on the interaction of the oxygen molecule with the ZnO(101̄,0) surface. New Journal of Chemistry, 2020, 44, 7376-7385.	2.8	15
15	Boron and Nitrogen Co-doping Configuration on Pyrolyzed Fe-N ₄ /C Catalyst. Procedia Engineering, 2017, 170, 131-135.	1.2	14
16	Enhanced molecular adsorption of ethylene on reduced anatase TiO ₂ (001): role of surface O-vacancies. RSC Advances, 2016, 6, 92241-92251.	3.6	13
17	Hydrogen Adsorption on Fe-based Metal Organic Frameworks: DFT Study. Procedia Engineering, 2017, 170, 136-140.	1.2	13
18	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. Journal of Physical Chemistry C, 2021, 125, 19682-19696.	3.1	12

#	ARTICLE	IF	CITATIONS
19	Theoretical Study on Hydrazine Chemisorption on Transition Metal Surfaces. Journal of the Physical Society of Japan, 2012, 81, 124705.	1.6	11
20	First principles calculation on the adsorption of water on lithium ⁺ montmorillonite (Li ⁺ MMT). Journal of Physics Condensed Matter, 2012, 24, 475506.	1.8	11
21	Significant role of thorny surface morphology of polyaniline on adsorption of triiodide ions towards counter electrode in dye-sensitized solar cells. New Journal of Chemistry, 2021, 45, 5958-5970.	2.8	11
22	Adsorption of formaldehyde and formyl intermediates on Pt, PtRu-, and PtRuMo-alloy surfaces: A density functional study. Applied Surface Science, 2013, 266, 405-409.	6.1	10
23	Computational Design of Ni-Zn Based Catalyst for Direct Hydrazine Fuel Cell Catalyst Using Density Functional Theory. Procedia Engineering, 2017, 170, 148-153.	1.2	10
24	Density Functional Study on Benzene, Toluene, Ethylbenzene and Xylene Adsorptions on ZnO(100) Surface. Molekul, 2019, 14, 37.	0.3	9
25	Density functional study of methyl butanoate adsorption and its C=O bonds cleavage on MoS ₂ -based catalyst with various loads of Ni promoters. Journal of Physics Condensed Matter, 2019, 31, 365001.	1.8	8
26	A Theoretical Study of Ligand Effects on the Electronic Structures of Ligated Zinc Porphyrin using Density Functional Theory. Journal of the Vacuum Society of Japan, 2014, 57, 102-110.	0.3	6
27	Distinct Behaviors of Cu- and Ni-ZSM-5 Zeolites toward the Post-activation Reactions of Methane. Journal of Physical Chemistry C, 2021, 125, 19333-19344.	3.1	6
28	PWDFT.jl: A Julia package for electronic structure calculation using density functional theory and plane wave basis. Computer Physics Communications, 2020, 256, 107372.	7.5	6
29	Coadsorption of hydrazine (N ₂ H ₄) and OH on NiZn surface: A DFT-based study. Surface Science, 2020, 691, 121505.	1.9	5
30	Temperature-induced orbital polarizations and tunable charge dynamics in layered double perovskite thin films. Materials Today Energy, 2022, 24, 100921.	4.7	5
31	Ethylene Carbonate Adsorption and Decomposition on Pristine and Defective ZnO(101̄..0) Surfaces: A First-Principles Study. Journal of Physical Chemistry C, 2022, 126, 2151-2160.	3.1	5
32	Cr, Fe - Doped Anatase TiO ₂ Photocatalyst: DFT+U Investigation on Band Gap. Advanced Materials Research, 2014, 893, 31-34.	0.3	3
33	Pathways for SO ₂ dissociation on Cu(100): density functional theory. Journal of Physics Condensed Matter, 2007, 19, 365244.	1.8	2
34	First Principle Study of Hydrazine and OH ⁻ Co-Adsorption on Ni(111) in High Coverage System. Advanced Materials Research, 2014, 893, 35-38.	0.3	2
35	Coadsorption of hydrazine and OH on the Ni(211) surface: A DFT study. Surface Science, 2021, 714, 121931.	1.9	2
36	Computational Density Functional Theory Study of Hydrazine Adsorption on Ni(110) Surface. Advanced Materials Research, 2015, 1112, 217-220.	0.3	1