

Shwetank Yadav

List of Publications by Year in descending order

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Version: 2024-02-01

12
papers

411
citations

1040056

9
h-index

1199594

12
g-index

12
all docs

12
docs citations

12
times ranked

594
citing authors

#	ARTICLE	IF	CITATIONS
1	Defect engineering of graphene for effective hydrogen storage. International Journal of Hydrogen Energy, 2014, 39, 4981-4995.	7.1	96
2	Metadynamics-Biased ab Initio Molecular Dynamics Study of Heterogeneous CO ₂ Reduction via Surface Frustrated Lewis Pairs. ACS Catalysis, 2016, 6, 7109-7117.	11.2	78
3	A first principles study of hydrogen storage on lithium decorated two dimensional carbon allotropes. International Journal of Hydrogen Energy, 2015, 40, 6128-6136.	7.1	53
4	Solar grade silicon production: A review of kinetic, thermodynamic and fluid dynamics based continuum scale modeling. Renewable and Sustainable Energy Reviews, 2017, 78, 1288-1314.	16.4	40
5	A van der Waals density functional theory comparison of metal decorated graphene systems for hydrogen adsorption. Journal of Applied Physics, 2014, 115, 224301.	2.5	35
6	Predicting aggregation energy for single atom bimetallic catalysts on clean and O* adsorbed surfaces through machine learning models. Catalysis Science and Technology, 2020, 10, 86-98.	4.1	29
7	Understanding the Independent and Interdependent Role of Water and Oxidation on the Tribology of Ultrathin Molybdenum Disulfide (MoS ₂). Advanced Materials Interfaces, 2019, 6, 1901246.	3.7	26
8	Friction of magnetene, a non-van der Waals 2D material. Science Advances, 2021, 7, eabk2041.	10.3	21
9	Molecular adsorption and surface formation reactions of HCl, H ₂ and chlorosilanes on Si(100)-c(4×4) with applications for high purity silicon production. Applied Surface Science, 2019, 475, 124-134.	6.1	14
10	First Principles Investigation of HCl, H ₂ , and Chlorosilane Adsorption on Cu ₃ Si Surfaces with Applications for Polysilicon Production. Journal of Physical Chemistry C, 2018, 122, 20252-20260.	3.1	9
11	Interfacial Interactions and Tribological Behavior of Metal-Oxide/2D-Material Contacts. Tribology Letters, 2021, 69, 1.	2.6	8
12	Automatically Capturing Key Features for Predicting Superionic Conductivity of Solid-State Electrolytes Using a Neural Network. ACS Applied Energy Materials, 2022, 5, 8042-8048.	5.1	2