

# 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	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
2	Interfacial Interactions and Tribological Behavior of Metal-Oxide/2D-Material Contacts. Tribology Letters, 2021, 69, 1.	2.6	8
3	Friction of magnetene, a non-van der Waals 2D material. Science Advances, 2021, 7, eabk2041.	10.3	21
4	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
5	Understanding the Independent and Interdependent Role of Water and Oxidation on the Tribology of Ultrathin Molybdenum Disulfide (MoS <sub>2</sub> ). Advanced Materials Interfaces, 2019, 6, 1901246.	3.7	26
6	Molecular adsorption and surface formation reactions of HCl, H <sub>2</sub> 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
7	First Principles Investigation of HCl, H <sub>2</sub> , and Chlorosilane Adsorption on Cu <sub>3</sub> Si Surfaces with Applications for Polysilicon Production. Journal of Physical Chemistry C, 2018, 122, 20252-20260.	3.1	9
8	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
9	Metadynamics-Biased ab Initio Molecular Dynamics Study of Heterogeneous CO <sub>2</sub> Reduction via Surface Frustrated Lewis Pairs. ACS Catalysis, 2016, 6, 7109-7117.	11.2	78
10	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
11	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
12	Defect engineering of graphene for effective hydrogen storage. International Journal of Hydrogen Energy, 2014, 39, 4981-4995.	7.1	96