

# Puspamitra Panigrahi

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4685730/publications.pdf>

Version: 2024-02-01

18  
papers

597  
citations

687363

13  
h-index

839539

18  
g-index

18  
all docs

18  
docs citations

18  
times ranked

532  
citing authors

#	ARTICLE	IF	CITATIONS
1	Remarkable improvement in hydrogen storage capacities of two-dimensional carbon nitride (g-C <sub>3</sub> N <sub>4</sub> ) nanosheets under selected transition metal doping. International Journal of Hydrogen Energy, 2020, 45, 3035-3045.	7.1	110
2	Elemental Substitution of Two-Dimensional Transition Metal Dichalcogenides (MoSe <sub>2</sub> and Tj ETQq0 0,0 rgBT /Overlock 10	7.8	101
3	Selective decoration of nitrogenated holey graphene (C <sub>2</sub> N) with titanium clusters for enhanced hydrogen storage application. International Journal of Hydrogen Energy, 2021, 46, 7371-7380.	7.1	63
4	Sensing propensity of a defected graphane sheet towards CO, H <sub>2</sub> O and NO <sub>2</sub> . Nanotechnology, 2014, 25, 325501.	2.6	53
5	Enriching physisorption of H <sub>2</sub> S and NH <sub>3</sub> gases on a graphane sheet by doping with Li adatoms. Physical Chemistry Chemical Physics, 2014, 16, 8100-8105.	2.8	53
6	Density Functional Theory Studies of Si <sub>2</sub> BN Nanosheets as Anode Materials for Magnesium-Ion Batteries. ACS Applied Nano Materials, 2020, 3, 9055-9063.	5.0	40
7	Two-Dimensional Bismuthene Nanosheets for Selective Detection of Toxic Gases. ACS Applied Nano Materials, 2022, 5, 2984-2993.	5.0	29
8	Tailoring the Pore Size, Basicity, and Binding Energy of Mesoporous C <sub>3</sub> N <sub>5</sub> for CO <sub>2</sub> Capture and Conversion. Chemistry - an Asian Journal, 2021, 16, 3999-4005.	3.3	23
9	Tuning electronic and optical properties of TiO <sub>2</sub> with Pt/Ag doping to a prospective photocatalyst: a first principles DFT study. Materials Research Express, 2019, 6, 045913.	1.6	22
10	Two-dimensional Nitrogenated Holey Graphene (C <sub>2</sub> N) monolayer based glucose sensor for diabetes mellitus. Applied Surface Science, 2022, 573, 151579.	6.1	20
11	Thermal properties of UO <sub>2</sub> with a non-local exchange-correlation pressure correction: a systematic first principles DFT + U study. Modelling and Simulation in Materials Science and Engineering, 2013, 21, 065014.	2.0	18
12	Capacity enhancement of polyolithiated functionalized boron nitride nanotubes: an efficient hydrogen storage medium. Physical Chemistry Chemical Physics, 2020, 22, 15675-15682.	2.8	18
13	Assessing the electrochemical properties of polypyridine and polythiophene for prospective applications in sustainable organic batteries. Physical Chemistry Chemical Physics, 2017, 19, 3307-3314.	2.8	15
14	Efficient Adsorption Characteristics of Pristine and Silver-Doped Graphene Oxide Towards Contaminants: A Potential Membrane Material for Water Purification?. ChemPhysChem, 2018, 19, 2250-2257.	2.1	14
15	Tuning optical properties of TiO <sub>2</sub> by dimension reduction: from 3D bulk to 2D sheets along {001} and {101} plane. Materials Research Express, 2019, 6, 1250f1.	1.6	8
16	Improved Adsorption and Migration of Divalent Ions Over C <sub>4</sub> N Nanosheets: Potential Anode for Divalent Batteries. Surfaces and Interfaces, 2020, 21, 100758.	3.0	5
17	Exploring the Full Potential of Functional Si <sub>2</sub> BN Nanoribbons As Highly Reversible Anode Materials for Mg-Ion Battery. Energy & Fuels, 2021, 35, 12688-12699.	5.1	3
18	Bandgap Engineering of TiO <sub>2</sub> as Visible light Photocatalyst with Pd Doping Using First Principles. IOP Conference Series: Materials Science and Engineering, 2022, 1219, 012041.	0.6	2