

# Preeti Bhauriyal

## List of Publications by Year in descending order

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26  
papers

1,131  
citations

535685

17  
h-index

620720

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g-index

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all docs

26  
docs citations

26  
times ranked

1625  
citing authors

#	ARTICLE	IF	CITATIONS
1	Catalysing the performance of Li <sup>+</sup> -sulfur batteries with two-dimensional conductive metal organic frameworks. <i>Journal of Materials Chemistry A</i> , 2022, 10, 12400-12408.	5.2	3
2	Porous Dithiine-Linked Covalent Organic Framework as a Dynamic Platform for Covalent Polysulfide Anchoring in Lithium <sup>+</sup> -Sulfur Battery Cathodes. <i>Journal of the American Chemical Society</i> , 2022, 144, 9101-9112.	6.6	71
3	Polycyclic Aromatic Hydrocarbons as Prospective Cathodes for Aluminum Organic Batteries. <i>Journal of Physical Chemistry C</i> , 2021, 125, 49-57.	1.5	20
4	Superior anchoring effect of a Cu-benzenehexathial MOF as an aluminium <sup>+</sup> -sulfur battery cathode host. <i>Materials Advances</i> , 2020, 1, 3572-3581.	2.6	19
5	Theoretical Insights into Solid Electrolyte Interphase Formation in an Al Anode Dual-Ion Battery. <i>Journal of Physical Chemistry C</i> , 2020, 124, 7634-7643.	1.5	13
6	Identifying suitable ionic liquid electrolytes for Al dual-ion batteries: role of electrochemical window, conductivity and voltage. <i>Materials Advances</i> , 2020, 1, 1354-1363.	2.6	23
7	Theoretical Insights into the Charge and Discharge Processes in Aluminum <sup>+</sup> -Sulfur Batteries. <i>Journal of Physical Chemistry C</i> , 2020, 124, 11317-11324.	1.5	19
8	Computational Insights into the Working Mechanism of the LiPF <sub>6</sub> -Graphite Dual-Ion Battery. <i>Journal of Physical Chemistry C</i> , 2019, 123, 23863-23871.	1.5	31
9	Density Functional Theory Study of Defect Induced Ferromagnetism and Half-Metallicity in CaI <sub>2</sub> Based Monolayer for Spintronics Applications. <i>ACS Applied Nano Materials</i> , 2019, 2, 6152-6161.	2.4	15
10	Recent Advances in Graphene-like 2D Materials for Spintronics Applications. <i>Chemistry of Materials</i> , 2019, 31, 8260-8285.	3.2	119
11	Graphene/hBN Heterostructures as High-Capacity Cathodes with High Voltage for Next-Generation Aluminum Batteries. <i>Journal of Physical Chemistry C</i> , 2019, 123, 3959-3967.	1.5	30
12	Identification of Non <sup>+</sup> Carbonaceous Cathodes in Al Batteries: Potential Applicability of Black and Blue Phosphorene Monolayers. <i>Chemistry - an Asian Journal</i> , 2019, 14, 2831-2837.	1.7	6
13	Catalytic upgrading of ethanol to <i>n</i> -butanol using an aliphatic Mn <sup>+</sup> -PNP complex: theoretical insights into reaction mechanisms and product selectivity. <i>Catalysis Science and Technology</i> , 2019, 9, 2794-2805.	2.1	19
14	Metal-ligand bifunctional based Mn-catalysts for CO <sub>2</sub> hydrogenation reaction. <i>Molecular Catalysis</i> , 2019, 468, 109-116.	1.0	15
15	Enhanced Lewis acid-base adducts in doped stanene: Sensing and photocatalysis. <i>Applied Surface Science</i> , 2019, 478, 946-958.	3.1	10
16	Role of Dimensionality for Photocatalytic Water Splitting: CdS Nanotube versus Bulk Structure. <i>ChemPhysChem</i> , 2019, 20, 383-391.	1.0	20
17	Graphene-like Carbon <sup>+</sup> -Nitride Monolayer: A Potential Anode Material for Na- and K-Ion Batteries. <i>Journal of Physical Chemistry C</i> , 2018, 122, 2481-2489.	1.5	150
18	Ferromagnetism in magnesium chloride monolayer with an unusually large spin-up gap. <i>Nanoscale</i> , 2018, 10, 22280-22292.	2.8	26

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19	High-energy-density dual-ion battery for stationary storage of electricity using concentrated potassium fluorosulfonylimide. <i>Nature Communications</i> , 2018, 9, 4469.	5.8	213
20	First-Principles Study of Magnesium Peroxide Nucleation for Mg-Air Battery. <i>Chemistry - an Asian Journal</i> , 2018, 13, 3198-3203.	1.7	7
21	Electron-rich graphite-like electrode: stability vs. Voltage for Al batteries. <i>Journal of Materials Chemistry A</i> , 2018, 6, 10776-10786.	5.2	27
22	The staging mechanism of $\text{AlCl}_4$ intercalation in a graphite electrode for an aluminium-ion battery. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 7980-7989.	1.3	144
23	A free-standing platinum monolayer as an efficient and selective catalyst for the oxygen reduction reaction. <i>Journal of Materials Chemistry A</i> , 2017, 5, 5303-5313.	5.2	41
24	A Computational Study of a Single-Walled Carbon Nanotube-Based Ultrafast High-Capacity Aluminum Battery. <i>Chemistry - an Asian Journal</i> , 2017, 12, 1944-1951.	1.7	20
25	Hexagonal $\text{BC}_3$ Electrode for a High-Voltage Al-Ion Battery. <i>Journal of Physical Chemistry C</i> , 2017, 121, 9748-9756.	1.5	37
26	$\text{Pt}_3\text{Ti}(\text{Ti}_{19}\text{Pt}_{60})$ -Based Cuboctahedral Core-Shell Nanocluster Favors a Direct over Indirect Oxygen Reduction Reaction. <i>ACS Energy Letters</i> , 2016, 1, 797-805.	8.8	33