

# Basant A Ali

## List of Publications by Year in descending order

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32  
papers

740  
citations

567281

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h-index

552781

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33  
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33  
docs citations

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times ranked

745  
citing authors

#	ARTICLE	IF	CITATIONS
1	Cylindrical C <sub>96</sub> Fullertubes: A Highly Active Metal-Free O <sub>2</sub> Reduction Electrocatalyst. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	13.8	17
2	Deciphering the hype effect of Ni-foam substrate in electrochemical supercapacitors: Is there a way out?. <i>Materials Today Communications</i> , 2022, 32, 103972.	1.9	3
3	Natural silk for energy and sensing applications: a review. <i>Environmental Chemistry Letters</i> , 2021, 19, 2141-2155.	16.2	23
4	Rb intercalation enhanced the supercapacitive performance of layer-structured MoS <sub>2</sub> as a 2D model material. <i>Materials Advances</i> , 2021, 2, 5052-5056.	5.4	14
5	Interplay of quantum capacitance with Van der Waals forces, intercalation, co-intercalation, and the number of MoS <sub>2</sub> layers. <i>Materials Today Energy</i> , 2021, 20, 100677.	4.7	17
6	Toward the Proper Selection of Carbon Electrode Materials for Energy Storage Applications: Experimental and Theoretical Insights. <i>Energy &amp; Fuels</i> , 2021, 35, 13426-13437.	5.1	12
7	Optimized electrosynthesis approach of Manganese-Nickel- Cobalt chalcogenide nanosheet arrays as binder-free battery materials for asymmetric electrochemical supercapacitors. <i>Electrochimica Acta</i> , 2021, 396, 139191.	5.2	24
8	Towards Cs-ion supercapacitors: Cs intercalation in polymorph MoS <sub>2</sub> as a model 2D electrode material. <i>Chemical Communications</i> , 2021, 57, 3231-3234.	4.1	18
9	Defining events: 2020 in hindsight. <i>Science</i> , 2021, 371, 22-24.	12.6	0
10	Boosting the cyclic stability and supercapacitive performance of graphene hydrogels via excessive nitrogen doping: Experimental and DFT insights. <i>Sustainable Materials and Technologies</i> , 2020, 25, e00206.	3.3	11
11	Recent progress in the development of hole-transport materials to boost the power conversion efficiency of perovskite solar cells. <i>Sustainable Materials and Technologies</i> , 2020, 26, e00210.	3.3	18
12	Fullerene C <sub>76</sub> as a novel electrocatalyst for VO <sub>2</sub> <sup>+</sup> /VO <sub>2</sub> <sup>+</sup> and chlorine evolution inhibitor in all-vanadium redox flow batteries. <i>Chemical Communications</i> , 2020, 56, 7569-7572.	4.1	15
13	Comparison between Benzothiadizole-Thiophene- and Benzothiadizole-Furan-Based Dyes Applied in Dye-Sensitized Solar Cells: Experimental and Theoretical Insights. <i>ACS Omega</i> , 2020, 5, 16856-16864.	3.5	21
14	Recycling of Li-Ni-Mn-Co Hydroxide from Spent Batteries to Produce High-Performance Supercapacitors with Exceptional Stability. <i>ChemElectroChem</i> , 2020, 7, 975-982.	3.4	41
15	Laser annealing enhanced the photophysical performance of Pt/n-PSi/ZnO/Pt-based photodetectors. <i>Solid-State Electronics</i> , 2020, 171, 107821.	1.4	2
16	Fullerene C <sub>76</sub> : An Unexplored Superior Electrode Material with Wide Operating Potential Window for High-Performance Supercapacitors. <i>ChemElectroChem</i> , 2020, 7, 1672-1678.	3.4	28
17	A first-principles roadmap and limits to design efficient supercapacitor electrode materials. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 17494-17511.	2.8	39
18	Recent advances in the use of TiO <sub>2</sub> nanotube powder in biological, environmental, and energy applications. <i>Nanoscale Advances</i> , 2019, 1, 2801-2816.	4.6	73

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19	Untapped Potential of Polymorph MoS <sub>2</sub> : Tuned Cationic Intercalation for High-Performance Symmetric Supercapacitors. ACS Applied Materials & Interfaces, 2019, 11, 33955-33965.	8.0	80
20	Silkworms as a factory of functional wearable energy storage fabrics. Scientific Reports, 2019, 9, 12649.	3.3	15
21	Three-Dimensional Interconnected Binder-Free Mn-Ni-S Nanosheets for High Performance Asymmetric Supercapacitor Devices with Exceptional Cyclic Stability. ACS Applied Energy Materials, 2019, 2, 3717-3725.	5.1	88
22	Experimental and density functional theory insights into the effect of withdrawing ligands on the fluorescence yield of Ru(II)-based complexes. Applied Organometallic Chemistry, 2019, 33, e4677.	3.5	9
23	Propping the optical and electronic properties of potential photo-sensitizers with different -spacers: TD-DFT insights. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2018, 188, 237-243.	3.9	27
24	Unveiling the Effect of the Structure of Carbon Material on the Charge Storage Mechanism in MoS <sub>2</sub> -Based Supercapacitors. ACS Omega, 2018, 3, 16301-16308.	3.5	76
25	Education for the future. Science, 2018, 360, 1409-1412.	12.6	9
26	Position of the anchoring group determined the sensitization efficiency of metal-free D-Å dyes: Combined experimental and TD-DFT insights. Journal of Photochemistry and Photobiology A: Chemistry, 2018, 367, 128-136.	3.9	7
27	Photophysical performance of radio frequency sputtered Pt/n-PSi/ZnO NCs/Pt photovoltaic photodetectors. Optical Materials, 2018, 84, 830-842.	3.6	9
28	Molecular Engineering of D-Å Based on 1,3-Dimethoxybenzene - Spacer for Dye-Sensitized Solar Cells. Egyptian Journal of Chemistry, 2018, .	0.2	0
29	Prejudgment call. Science, 2017, 355, 22-23.	12.6	1
30	Full speed ahead to the City on the Hill. Science, 2016, 352, 886-889.	12.6	3
31	The DFT+U: Approaches, Accuracy, and Applications. , 0, , .		37
32	Cylindrical C <sub>96</sub> Fullertubes: A Highly Active Metal-Free O <sub>2</sub> -Reduction Electrocatalyst. Angewandte Chemie, 0, , .	2.0	3