

# Basant A Ali

## List of Publications by Year in descending order

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32  
papers

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citations

566801  
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docs citations

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times ranked

745  
citing authors

#	ARTICLE	IF	CITATIONS
1	Three-Dimensional Interconnected Binder-Free Mn <sup>2+</sup> /Ni <sup>2+</sup> /S Nanosheets for High Performance Asymmetric Supercapacitor Devices with Exceptional Cyclic Stability. ACS Applied Energy Materials, 2019, 2, 3717-3725.	2.5	88
2	Untapped Potential of Polymorph MoS <sub>2</sub> : Tuned Cationic Intercalation for High-Performance Symmetric Supercapacitors. ACS Applied Materials & Interfaces, 2019, 11, 33955-33965.	4.0	80
3	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.	1.6	76
4	Recent advances in the use of TiO <sub>2</sub> nanotube powder in biological, environmental, and energy applications. Nanoscale Advances, 2019, 1, 2801-2816.	2.2	73
5	Recycling of Li <sup>+</sup> /Ni <sup>2+</sup> /Mn <sup>2+</sup> /Co Hydroxide from Spent Batteries to Produce High-Performance Supercapacitors with Exceptional Stability. ChemElectroChem, 2020, 7, 975-982.	1.7	41
6	A first-principles roadmap and limits to design efficient supercapacitor electrode materials. Physical Chemistry Chemical Physics, 2019, 21, 17494-17511.	1.3	39
7	The DFT+U: Approaches, Accuracy, and Applications. , 0, , .		37
8	Fullerene C <sub>76</sub> : An Unexplored Superior Electrode Material with Wide Operating Potential Window for High-Performance Supercapacitors. ChemElectroChem, 2020, 7, 1672-1678.	1.7	28
9	Probing the optical and electronic properties of potential photo-sensitizers with different $\pi$ -spacers: TD-DFT insights. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2018, 188, 237-243.	2.0	27
10	Optimized electrosynthesis approach of Manganese-Nickel-Cobalt chalcogenide nanosheet arrays as binder-free battery materials for asymmetric electrochemical supercapacitors. Electrochimica Acta, 2021, 396, 139191.	2.6	24
11	Natural silk for energy and sensing applications: a review. Environmental Chemistry Letters, 2021, 19, 2141-2155.	8.3	23
12	Comparison between Benzothiadiazole- $\pi$ -Thiophene- and Benzothiadiazole- $\pi$ -Furan-Based D $\pi$ -A $\pi$ - $\pi$ -A Dyes Applied in Dye-Sensitized Solar Cells: Experimental and Theoretical Insights. ACS Omega, 2020, 5, 16856-16864.	1.6	21
13	Recent progress in the development of hole-transport materials to boost the power conversion efficiency of perovskite solar cells. Sustainable Materials and Technologies, 2020, 26, e00210.	1.7	18
14	Towards Cs-ion supercapacitors: Cs intercalation in polymorph MoS <sub>2</sub> as a model 2D electrode material. Chemical Communications, 2021, 57, 3231-3234.	2.2	18
15	Interplay of quantum capacitance with Van der Waals forces, intercalation, co-intercalation, and the number of MoS <sub>2</sub> layers. Materials Today Energy, 2021, 20, 100677.	2.5	17
16	Cylindrical C <sub>96</sub> Fullertubes: A Highly Active Metal-Free O <sub>2</sub> -Reduction Electrocatalyst. Angewandte Chemie - International Edition, 2022, 61, .	7.2	17
17	Silkworms as a factory of functional wearable energy storage fabrics. Scientific Reports, 2019, 9, 12649.	1.6	15
18	Fullerene C <sub>76</sub> as a novel electrocatalyst for VO <sup>2+</sup> /VO <sub>2</sub> <sup>+</sup> and chlorine evolution inhibitor in all-vanadium redox flow batteries. Chemical Communications, 2020, 56, 7569-7572.	2.2	15

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19	Rb intercalation enhanced the supercapacitive performance of layer-structured MoS <sub>2</sub> as a 2D model material. Materials Advances, 2021, 2, 5052-5056.	2.6	14
20	Toward the Proper Selection of Carbon Electrode Materials for Energy Storage Applications: Experimental and Theoretical Insights. Energy & Fuels, 2021, 35, 13426-13437.	2.5	12
21	Boosting the cyclic stability and supercapacitive performance of graphene hydrogels via excessive nitrogen doping: Experimental and DFT insights. Sustainable Materials and Technologies, 2020, 25, e00206.	1.7	11
22	Education for the future. Science, 2018, 360, 1409-1412.	6.0	9
23	Photophysical performance of radio frequency sputtered Pt/n-PSi/ZnO NCs/Pt photovoltaic photodetectors. Optical Materials, 2018, 84, 830-842.	1.7	9
24	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.	1.7	9
25	Position of the anchoring group determined the sensitization efficiency of metal-free D-π-A dyes: Combined experimental and TD-DFT insights. Journal of Photochemistry and Photobiology A: Chemistry, 2018, 367, 128-136.	2.0	7
26	Full speed ahead to the City on the Hill. Science, 2016, 352, 886-889.	6.0	3
27	Cylindrical C <sub>96</sub> Fullertubes: A Highly Active Metal-Free O <sub>2</sub> → Reduction Electrocatalyst. Angewandte Chemie, 0, , .	1.6	3
28	Deciphering the hype effect of Ni-foam substrate in electrochemical supercapacitors: Is there a way out?. Materials Today Communications, 2022, 32, 103972.	0.9	3
29	Laser annealing enhanced the photophysical performance of Pt/n-PSi/ZnO/Pt-based photodetectors. Solid-State Electronics, 2020, 171, 107821.	0.8	2
30	Prejudgment call. Science, 2017, 355, 22-23.	6.0	1
31	Defining events: 2020 in hindsight. Science, 2021, 371, 22-24.	6.0	0
32	Molecular Engineering of D-π-A Based on 1,3-Dimethoxybenzene -π Spacer for Dye-Sensitized Solar Cells. Egyptian Journal of Chemistry, 2018, .	0.1	0