Dhrubajyoti Bhattacharjya

List of Publications by Year in Descending Order

34 papers	2,434 citations	21 h-index	37 g-index
37 ext. papers	2,762 ext. citations	6.9 avg, IF	5.37 L-index

#	Paper	IF	Citations
34	Recent trends in supercapacitor-battery hybrid energy storage devices based on carbon materials. *Journal of Energy Storage*, **2022**, 52, 104938	7.8	2
33	Development of a Li-Ion Capacitor Pouch Cell Prototype by Means of a Low-Cost, Air-Stable, Solution Processable Fabrication Method. *Journal of the Electrochemical Society*, **2021**, 168, 110544	3.9	0
32	Coal-Derived Activated Carbon for Electrochemical Energy Storage: Status on Supercapacitor, Li-Ion Battery, and Li–S Battery Applications. *Energy & Fuels*, **2021**, 35, 18285-18307	4.1	1
31	A transversal low-cost pre-metallation strategy enabling ultrafast and stable metal ion capacitor technologies. *Energy and Environmental Science*, **2020**, 13, 2441-2449	35.4	39
30	(Invited) A Transversal Low-Cost Pre-Lithiation Strategy Enabling Ultrafast and Stable Lithium Ion Capacitors. *ECS Meeting Abstracts*, **2020**, MA2020-02, 647-647	0	
29	Fabrication of high-performance dual carbon Li-ion hybrid capacitor: mass balancing approach to improve the energy-power density and cycle life. *Scientific Reports*, **2020**, 10, 10842	4.9	6
28	A brief review on supercapacitor energy storage devices and utilization of natural carbon resources as their electrode materials. *Fuel*, **2020**, 282, 118796	7.1	83
27	Study of electrode processing and cell assembly for the optimized performance of supercapacitor in pouch cell configuration. *Journal of Power Sources*, **2019**, 439, 227106	8.9	9
26	Robust NiCo2O4/Superactivated Carbon Aqueous Supercapacitor with High Power Density and Stable Cyclability. *ChemElectroChem*, **2019**, 6, 2536-2545	4.3	6
25	Fast and controllable reduction of graphene oxide by low-cost CO2 laser for supercapacitor application. *Applied Surface Science*, **2018**, 462, 353-361	6.7	40
24	N-Carbon from Waste Tea as Efficient Anode Electrode Material in Lithium Ion Batteries. *Journal of Nanoscience and Nanotechnology*, **2017**, 17, 1838-1846	1.3	3
23	Effect of pristine graphene incorporation on charge storage mechanism of three-dimensional graphene oxide: superior energy and power density retention. *Scientific Reports*, **2016**, 6, 31555	4.9	16
22	Nitrogen and phosphorus co-doped cubic ordered mesoporous carbon as a supercapacitor electrode material with extraordinary cyclic stability. *Journal of Materials Chemistry A*, **2015**, 3, 18001-18009	13	103
21	High capacity and exceptional cycling stability of ternary metal sulfide nanorods as Li ion battery anodes. *Chemical Communications*, **2015**, 51, 13350-3	5.8	64
20	Green fabrication of 3-dimensional flower-shaped zinc glycerolate and ZnO microstructures for p-nitrophenol sensing. *RSC Advances*, **2015**, 5, 37721-37728	3.7	28
19	Graphene nanoplatelets with selectively functionalized edges as electrode material for electrochemical energy storage. *Langmuir*, **2015**, 31, 5676-83	4	23
18	Facile Synthesis of Hexagonal NiCo2O4 Nanoplates as High-Performance Anode Material for Li-Ion Batteries. *Bulletin of the Korean Chemical Society*, **2015**, 36, 2330-2336	1.2	14

17	Nitrogen-Doped Ordered Mesoporous Carbon with Different Morphologies for the Oxygen Reduction Reaction: Effect of Iron Species and Synergy of Textural Properties. *ChemCatChem*, **2015**, 7, 2882-2890	5.2	29
16	Functionalized Agarose Self-Healing Ionogels Suitable for Supercapacitors. *ChemSusChem*, **2015**, 8, 3294-3303	8	78
15	Nitrogen-doped carbon nanoparticles by flame synthesis as anode material for rechargeable lithium-ion batteries. *Langmuir*, **2014**, 30, 318-24	4	180
14	Synthesis of hollow TiO2@N-doped carbon with enhanced electrochemical capacitance by an in situ hydrothermal process using hexamethylenetetramine. *Journal of Materials Chemistry A*, **2014**, 2, 11472	13	45
13	A highly efficient carbon-supported Pt electrocatalyst prepared by γ-irradiation for cathodic oxygen reduction. *International Journal of Hydrogen Energy*, **2014**, 39, 1688-1697	6.7	14
12	Activated carbon made from cow dung as electrode material for electrochemical double layer capacitor. *Journal of Power Sources*, **2014**, 262, 224-231	8.9	213
11	Seaweed-derived heteroatom-doped highly porous carbon as an electrocatalyst for the oxygen reduction reaction. *ChemSusChem*, **2014**, 7, 1755-63	8.3	123
10	Highly efficient metal-free phosphorus-doped platelet ordered mesoporous carbon for electrocatalytic oxygen reduction. *Carbon*, **2014**, 67, 736-743	10.4	127
9	High-performance quaternary PtRuIrNi electrocatalysts with hierarchical nanostructured carbon support. *Journal of Catalysis*, **2013**, 306, 133-145	7.3	21
8	High performance supercapacitor prepared from hollow mesoporous carbon capsules with hierarchical nanoarchitecture. *Journal of Power Sources*, **2013**, 244, 799-805	8.9	114
7	Morphology-dependent Li storage performance of ordered mesoporous carbon as anode material. *Langmuir*, **2013**, 29, 6754-61	4	69
6	1-Dimensional porous α-Fe2O3 nanorods as high performance electrode material for supercapacitors. *RSC Advances*, **2013**, 3, 25120	3.7	83
5	Thermal decomposition of hydromagnesite. *Journal of Thermal Analysis and Calorimetry*, **2012**, 107, 439-445	4.1	16
4	Phosphorus-doped ordered mesoporous carbons with different lengths as efficient metal-free electrocatalysts for oxygen reduction reaction in alkaline media. *Journal of the American Chemical Society*, **2012**, 134, 16127-30	16.4	784
3	Controlled growth of polyaniline fractals on HOPG through potentiodynamic electropolymerization. *Langmuir*, **2012**, 28, 5893-9	4	23
2	Rectangular MgO microsheets with strong catalytic activity. *Materials Chemistry and Physics*, **2011**, 129, 853-861	4.4	69
1	Fabrication and Magnetic Properties of CoNiAl Ferromagnetic Shape Memory Alloy Thin Films. *Materials Science Forum*, **2009**, 635, 167-172	0.4	1