

Amit Kumar Das

List of Publications by Year in descending order

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Version: 2024-02-01

27
papers

1,583
citations

331670

21
h-index

526287

27
g-index

27
all docs

27
docs citations

27
times ranked

2029
citing authors

#	ARTICLE	IF	CITATIONS
1	Entire onion source-derived redox porous carbon electrodes towards efficient quasi-solid-state solar charged hybrid supercapacitor. <i>Journal of Materials Science and Technology</i> , 2022, 125, 118-127.	10.7	7
2	A Quasi-Solid-State Asymmetric Supercapacitor Device Based on Honeycomb-like Nickelâ€“Copperâ€“Carbonateâ€“Hydroxide as a Positive and Iron Oxide as a Negative Electrode with Superior Electrochemical Performances. <i>ACS Applied Electronic Materials</i> , 2020, 2, 177-185.	4.3	34
3	A polypyrrole-adorned, self-supported, pseudocapacitive zinc vanadium oxide nanoflower and nitrogen-doped reduced graphene oxide-based asymmetric supercapacitor device for power density applications. <i>New Journal of Chemistry</i> , 2020, 44, 1063-1075.	2.8	35
4	Nanostructured cigarette wrapper encapsulated <sc>PDMSâ€“RGO</sc> sandwiched composite for high performance <sc>EMI</sc> shielding applications. <i>Polymer Engineering and Science</i> , 2020, 60, 3056-3071.	3.1	15
5	Approach for Enhancement in Output Performance of Randomly Oriented ZnSnO₃ Nanorod-Based Piezoelectric Nanogenerator via pâ€“n Heterojunction and Surface Passivation Layer. <i>ACS Applied Electronic Materials</i> , 2020, 2, 2565-2578.	4.3	22
6	<i>In situ</i>-grown organo-lead bromide perovskite-induced electroactive Î³-phase in aerogel PVDF films: an efficient photoactive material for piezoelectric energy harvesting and photodetector applications. <i>Nanoscale</i> , 2020, 12, 7214-7230.	5.6	44
7	A strategy to develop highly efficient TENGs through the dielectric constant, internal resistance optimization, and surface modification. <i>Journal of Materials Chemistry A</i> , 2019, 7, 3979-3991.	10.3	70
8	Fabrication of an Advanced Asymmetric Supercapacitor Based on Three-Dimensional Copperâ€“Nickelâ€“Ceriumâ€“Cobalt Quaternary Oxide and GNP for Energy Storage Application. <i>ACS Applied Electronic Materials</i> , 2019, 1, 189-197.	4.3	66
9	Highly Rate Capable Nanoflower-like NiSe and WO₃@PPy Composite Electrode Materials toward High Energy Density Flexible All-Solid-State Asymmetric Supercapacitor. <i>ACS Applied Electronic Materials</i> , 2019, 1, 977-990.	4.3	86
10	Morphological interference of two different cobalt oxides derived from a hydrothermal protocol and a single two-dimensional metal organic framework precursor to stabilize the Î²-phase of PVDF for flexible piezoelectric nanogenerators. <i>Nanoscale</i> , 2019, 11, 22989-22999.	5.6	47
11	Triboelectric Nanogenerator Driven Self-Charging and Self-Healing Flexible Asymmetric Supercapacitor Power Cell for Direct Power Generation. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 5022-5036.	8.0	63
12	Temperature dependent substrate-free facile synthesis for hierarchical sunflower-like nickelâ€“copper carbonate hydroxide with superior electrochemical performance for solid state asymmetric supercapacitor. <i>Chemical Engineering Journal</i> , 2018, 343, 44-53.	12.7	38
13	A strategy to develop an efficient piezoelectric nanogenerator through ZTO assisted Î³-phase nucleation of PVDF in ZTO/PVDF nanocomposite for harvesting bio-mechanical energy and energy storage application. <i>Materials Chemistry and Physics</i> , 2018, 213, 525-537.	4.0	71
14	Insight into Cigarette Wrapper and Electroactive Polymer Based Efficient TENG as Biomechanical Energy Harvester for Smart Electronic Applications. <i>ACS Applied Energy Materials</i> , 2018, 1, 4963-4975.	5.1	26
15	High performance advanced asymmetric supercapacitor based on ultrathin and mesoporous MnCo2O4.5-NiCo2O4 hybrid and iron oxide decorated reduced graphene oxide electrode materials. <i>Electrochimica Acta</i> , 2018, 283, 438-447.	5.2	47
16	An Approach To Fabricate PDMS Encapsulated All-Solid-State Advanced Asymmetric Supercapacitor Device with Vertically Aligned Hierarchical Znâ€“Feâ€“Co Ternary Oxide Nanowire and Nitrogen Doped Graphene Nanosheet for High Power Device Applications. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 5947-5958.	8.0	81
17	A Mesoporous High-Performance Supercapacitor Electrode Based on Polypyrrole Wrapped Iron Oxide Decorated Nanostructured Cobalt Vanadium Oxide Hydrate with Enhanced Electrochemical Capacitance. <i>Industrial & Engineering Chemistry Research</i> , 2017, 56, 2444-2457.	3.7	42
18	Polyaniline/Î±-Ni(OH)2/iron oxide-doped reduced graphene oxide-based hybrid electrode material. <i>Journal of Applied Electrochemistry</i> , 2017, 47, 531-546.	2.9	12

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19	Fabrication of an advanced asymmetric supercapacitor based on a microcubical PB@MnO ₂ hybrid and PANI/GNP composite with excellent electrochemical behaviour. Journal of Materials Chemistry A, 2017, 5, 22242-22254.	10.3	75
20	Fast charging self-powered wearable and flexible asymmetric supercapacitor power cell with fish swim bladder as an efficient natural bio-piezoelectric separator. Nano Energy, 2017, 40, 633-645.	16.0	89
21	Effect of β -PVDF on enhanced thermal conductivity and dielectric property of Fe-rGO incorporated PVDF based flexible nanocomposite film for efficient thermal management and energy storage applications. RSC Advances, 2016, 6, 37773-37783.	3.6	58
22	A Facile Approach To Develop a Highly Stretchable PVC/ZnSnO ₃ Piezoelectric Nanogenerator with High Output Power Generation for Powering Portable Electronic Devices. Industrial & Engineering Chemistry Research, 2016, 55, 10671-10680.	3.7	75
23	An Approach to Design Highly Durable Piezoelectric Nanogenerator Based on Self-Poled PVDF/AlO ₃ /rGO Flexible Nanocomposite with High Power Density and Energy Conversion Efficiency. Advanced Energy Materials, 2016, 6, 1601016.	19.5	324
24	Carbon nanohorn-graphene nanoplate hybrid: An excellent electrode material for supercapacitor application. Journal of Applied Polymer Science, 2015, 132, .	2.6	13
25	Single wall carbon nanohorn (SWCNH)/graphene nanoplate/poly(methyl methacrylate) nanocomposites: a promising material for electromagnetic interference shielding applications. RSC Advances, 2015, 5, 70482-70493.	3.6	21
26	High Energy Density Ternary Composite Electrode Material Based on Polyaniline (PANI), Molybdenum trioxide (MoO ₃) and Graphene Nanoplatelets (GNP) Prepared by Sono-Chemical Method and Their Synergistic Contributions in Superior Supercapacitive Performance. Electrochimica Acta, 2015, 180, 1-15.	5.2	96
27	Effect of nanoclay on the morphology and properties of acrylonitrile butadiene styrene toughened polyoxymethylene (POM)/clay nanocomposites. Polymer Composites, 2014, 35, 273-282.	4.6	26