

Aziz Ahmad

List of Publications by Year in descending order

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26
papers

1,857
citations

361413

20
h-index

552781

26
g-index

26
all docs

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docs citations

26
times ranked

2795
citing authors

#	ARTICLE	IF	CITATIONS
1	Biomass-derived porous carbon materials with different dimensions for supercapacitor electrodes: a review. <i>Journal of Materials Chemistry A</i> , 2019, 7, 16028-16045.	10.3	694
2	Mechanical Analyses and Structural Design Requirements for Flexible Energy Storage Devices. <i>Advanced Energy Materials</i> , 2017, 7, 1700535.	19.5	170
3	A Carbonyl Compound-Based Flexible Cathode with Superior Rate Performance and Cyclic Stability for Flexible Lithium-Ion Batteries. <i>Advanced Materials</i> , 2018, 30, 1703868.	21.0	128
4	Structural Evolution of Phosphorus Species on Graphene with a Stabilized Electrochemical Interface. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 11421-11430.	8.0	104
5	Effect of pore structure and doping species on charge storage mechanisms in porous carbon-based supercapacitors. <i>Materials Chemistry Frontiers</i> , 2020, 4, 2610-2634.	5.9	91
6	Adsorptive removal of Cd ²⁺ from aqueous solutions by a highly stable covalent triazine-based framework. <i>New Journal of Chemistry</i> , 2018, 42, 10234-10242.	2.8	66
7	Microwave assisted synthesis of mesoporous NiCo ₂ O ₄ nanosheets as electrode material for advanced flexible supercapacitors. <i>RSC Advances</i> , 2015, 5, 33146-33154.	3.6	65
8	Ag@MnxOy: an effective catalyst for photo-degradation of rhodamine B dye. <i>Environmental Chemistry Letters</i> , 2018, 16, 287-294.	16.2	58
9	Phosphorus-modified porous carbon aerogel microspheres as high volumetric energy density electrode for supercapacitor. <i>Electrochimica Acta</i> , 2019, 318, 151-160.	5.2	48
10	A comparative study of the removal of Cr(VI) from synthetic solution using natural biosorbents. <i>New Journal of Chemistry</i> , 2017, 41, 10799-10807.	2.8	47
11	A graphene supported polyimide nanocomposite as a high performance organic cathode material for lithium ion batteries. <i>RSC Advances</i> , 2016, 6, 33287-33294.	3.6	46
12	A Hierarchically Porous Hypercrosslinked and Novel Quinone based Stable Organic Polymer Electrode for Lithium-Ion Batteries. <i>Electrochimica Acta</i> , 2017, 255, 145-152.	5.2	39
13	Green Synthesis of CoFe ₂ O ₄ and Investigation of its Catalytic Efficiency for Degradation of Dyes in Aqueous Medium. <i>Zeitschrift Fur Physikalische Chemie</i> , 2018, 232, 359-371.	2.8	37
14	Exploring the Synergistic Effect of Novel Ni-Fe in 2D Bimetallic Metal-Organic Frameworks for Enhanced Electrochemical Reduction of CO ₂ . <i>Advanced Materials Interfaces</i> , 2022, 9, 2101505.	3.7	32
15	A hierarchical porous N-doped carbon electrode with superior rate performance and cycling stability for flexible supercapacitors. <i>Materials Chemistry Frontiers</i> , 2018, 2, 986-992.	5.9	30
16	Removal of azo dye from aqueous solution by a low-cost activated carbon prepared from coal: adsorption kinetics, isotherms study, and DFT simulation. <i>Environmental Science and Pollution Research</i> , 2021, 28, 10234-10247.	5.3	30
17	Combining Electrode Flexibility and Wave-Like Device Architecture for Highly Flexible Li-Ion Batteries. <i>Advanced Materials Technologies</i> , 2017, 2, 1700032.	5.8	29
18	Poly(3,4-ethylenedioxythiophene)-coated sulfur for flexible and binder-free cathodes of lithium-sulfur batteries. <i>Journal of Materials Chemistry A</i> , 2017, 5, 17647-17652.	10.3	26

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19	Efficient sulfur host based on NiCo ₂ O ₄ hollow microtubes for advanced Li-S batteries. Journal of Solid State Chemistry, 2017, 256, 189-195.	2.9	21
20	A Bifunctional and Free-Standing Organic Composite Film with High Flexibility and Good Tensile Strength for Tribological and Electrochemical Applications. Advanced Materials Technologies, 2019, 4, 1900617.	5.8	21
21	Oxidative Degradation of Oxalic Acid in Aqueous Medium Using Manganese Oxide as Catalyst at Ambient Temperature and Pressure. Arabian Journal for Science and Engineering, 2013, 38, 1739-1748.	1.1	19
22	Synthesis and characterization of Bi ₂ O ₃ and Ag-Bi ₂ O ₃ and evaluation of their photocatalytic activities towards photodegradation of crystal violet dye. Physica Scripta, 2021, 96, 125707.	2.5	14
23	A High Energy Density Self-supported and Bendable Organic Electrode for Redox Supercapacitors with a Wide Voltage Window. Chinese Journal of Polymer Science (English Edition), 2020, 38, 522-530.	3.8	12
24	Towards optimized Li-ion storage performance: Insight on the oxygen species evolution of hard carbon by H ₂ reduction. Electrochimica Acta, 2020, 337, 135736.	5.2	12
25	Combined DFT and experiment: Stabilizing the electrochemical interfaces via boron Lewis acids. Journal of Energy Chemistry, 2021, 59, 100-107.	12.9	12
26	A computational study on the characteristics of open-shell H-bonding interaction between carbamic acid (NH ₂ COOH) and HO ₂ , HOS or HSO radicals. Journal of Molecular Modeling, 2019, 25, 189.	1.8	6