

Waseem Aftab

List of Publications by Year in descending order

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Version: 2024-02-01

32
papers

2,462
citations

361045

20
h-index

433756

31
g-index

32
all docs

32
docs citations

32
times ranked

2251
citing authors

#	ARTICLE	IF	CITATIONS
1	Nanoconfined phase change materials for thermal energy applications. <i>Energy and Environmental Science</i> , 2018, 11, 1392-1424.	15.6	445
2	Ultrafast Sodium/Potassium Ion Intercalation into Hierarchically Porous Thin Carbon Shells. <i>Advanced Materials</i> , 2019, 31, e1805430.	11.1	214
3	Engineering the Thermal Conductivity of Functional Phase Change Materials for Heat Energy Conversion, Storage, and Utilization. <i>Advanced Functional Materials</i> , 2020, 30, 1904228.	7.8	202
4	Phase change material-integrated latent heat storage systems for sustainable energy solutions. <i>Energy and Environmental Science</i> , 2021, 14, 4268-4291.	15.6	193
5	Polyurethane-based flexible and conductive phase change composites for energy conversion and storage. <i>Energy Storage Materials</i> , 2019, 20, 401-409.	9.5	192
6	Encapsulating Trogtalite CoSe_2 Nanobuds into BCN Nanotubes as High Storage Capacity Sodium Ion Battery Anodes. <i>Advanced Energy Materials</i> , 2019, 9, 1901778.	10.2	131
7	Synergistic Effect of Co-Ni Hybrid Phosphide Nanocages for Ultrahigh Capacity Fast Energy Storage. <i>Advanced Science</i> , 2019, 6, 1802005.	5.6	130
8	Flexible phase change materials for thermal energy storage. <i>Energy Storage Materials</i> , 2021, 41, 321-342.	9.5	128
9	Tuning the flexibility and thermal storage capacity of solid-solid phase change materials towards wearable applications. <i>Journal of Materials Chemistry A</i> , 2020, 8, 20133-20140.	5.2	119
10	$\text{Fe}_2\text{N}/\text{S}/\text{N}$ Codecorated Hierarchical Porous Carbon Nanosheets for Trifunctional Electrocatalysis. <i>Small</i> , 2018, 14, e1803500.	5.2	80
11	Tunable Free-Standing Core-Shell CNT@ MoSe_2 Anode for Lithium Storage. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 14622-14631.	4.0	78
12	Highly efficient solar-thermal storage coating based on phosphorene encapsulated phase change materials. <i>Energy Storage Materials</i> , 2020, 32, 199-207.	9.5	77
13	Large-scale fabrication of BCN nanotube architecture entangled on a three-dimensional carbon skeleton for energy storage. <i>Journal of Materials Chemistry A</i> , 2018, 6, 21225-21230.	5.2	62
14	Emerging Solid-Solid Phase Change Materials for Thermal Energy Harvesting, Storage, and Utilization. <i>Advanced Materials</i> , 2022, 34, .	11.1	59
15	Surface modified boron nitride towards enhanced thermal and mechanical performance of thermoplastic polyurethane composite. <i>Composites Part B: Engineering</i> , 2021, 218, 108871.	5.9	53
16	Copper Sulfide Nanodisk-Doped Solid-Solid Phase Change Materials for Full Spectrum Solar-Thermal Energy Harvesting and Storage. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 1377-1385.	4.0	46
17	Facile preparation of flexible eicosane/SWCNTs phase change films via colloid aggregation for thermal energy storage. <i>Applied Energy</i> , 2020, 260, 114320.	5.1	32
18	Carbon Fibers Embedded With Iron Selenide (Fe_3Se_4) as Anode for High-Performance Sodium and Potassium Ion Batteries. <i>Frontiers in Chemistry</i> , 2020, 8, 408.	1.8	30

#	ARTICLE	IF	CITATIONS
19	Engineering of polymer-based materials for thermal management solutions. <i>Composites Communications</i> , 2022, 29, 101048.	3.3	29
20	Synthesis and characterization of chitin/curcumin blended polyurethane elastomers. <i>International Journal of Biological Macromolecules</i> , 2018, 113, 150-158.	3.6	24
21	Visualization of battery materials and their interfaces/interphases using cryogenic electron microscopy. <i>Materials Today</i> , 2022, 58, 238-274.	8.3	17
22	Phase-change materials reinforced intelligent paint for efficient daytime radiative cooling. <i>IScience</i> , 2022, 25, 104584.	1.9	16
23	Synthesis and characterization of graphene nanoplatelets-hydroxyethyl cellulose copolymer-based polyurethane bionanocomposite system. <i>International Journal of Biological Macromolecules</i> , 2020, 165, 1889-1899.	3.6	15
24	Preparation and characterization of guar gum based polyurethanes. <i>International Journal of Biological Macromolecules</i> , 2021, 183, 2174-2183.	3.6	15
25	Hydroxyethylcellulose-g-poly(lactic acid) blended polyurethanes: Preparation, characterization and biological studies. <i>International Journal of Biological Macromolecules</i> , 2020, 151, 993-1003.	3.6	14
26	Structural elucidation and biological aptitude of modified hydroxyethylcellulose-polydimethyl siloxane based polyurethanes. <i>International Journal of Biological Macromolecules</i> , 2020, 150, 426-440.	3.6	13
27	A BN analog of two-dimensional triphenylene-graphdiyne: stability and properties. <i>Nanoscale</i> , 2019, 11, 9000-9007.	2.8	12
28	Synthesis and molecular characterization of chitosan/alginate blends based polyurethanes bionanocomposites. <i>International Journal of Biological Macromolecules</i> , 2021, 180, 324-331.	3.6	9
29	Role of binary metal chalcogenides in extending the limits of energy storage systems: Challenges and possible solutions. <i>Science China Materials</i> , 2022, 65, 559-592.	3.5	8
30	The Application of Carbon Materials in Latent Heat Thermal Energy Storage (LHTES). , 2017, , 243-265.		7
31	Synthesis and characterization of hydroxyethyl cellulose copolymer modified polyurethane bionanocomposites. <i>International Journal of Biological Macromolecules</i> , 2021, 179, 345-352.	3.6	7
32	Microwaves heating strategy to synthesize few layer graphene for polymer composites towards thermal and electrical applications. <i>Composites Science and Technology</i> , 2020, 200, 108402.	3.8	5