Waseem Aftab

List of Publications by Year in descending order

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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	Engineering of polymer-based materials for thermal management solutions. Composites Communications, 2022, 29, 101048.	3.3	29
2	Role of binary metal chalcogenides in extending the limits of energy storage systems: Challenges and possible solutions. Science China Materials, 2022, 65, 559-592.	3.5	8
3	Emerging Solidâ€toâ€Solid Phaseâ€Change Materials for Thermalâ€Energy Harvesting, Storage, and Utilization. Advanced Materials, 2022, 34, .	11.1	59
4	Phase-change materials reinforced intelligent paint for efficient daytime radiative cooling. IScience, 2022, 25, 104584.	1.9	16
5	Visualization of battery materials and their interfaces/interphases using cryogenic electron microscopy. Materials Today, 2022, 58, 238-274.	8.3	17
6	Copper Sulfide Nanodisk-Doped Solidâ€“Solid Phase Change Materials for Full Spectrum Solar-Thermal Energy Harvesting and Storage. ACS Applied Materials & Interfaces, 2021, 13, 1377-1385.	4.0	46
7	Phase change material-integrated latent heat storage systems for sustainable energy solutions. Energy and Environmental Science, 2021, 14, 4268-4291.	15.6	193
8	Synthesis and characterization of hydroxyethyl cellulose copolymer modified polyurethane bionanocomposites. International Journal of Biological Macromolecules, 2021, 179, 345-352.	3.6	7
9	Synthesis and molecular characterization of chitosan/alginate blends based polyurethanes biocomposites. International Journal of Biological Macromolecules, 2021, 180, 324-331.	3.6	9
10	Preparation and characterization of guar gum based polyurethanes. International Journal of Biological Macromolecules, 2021, 183, 2174-2183.	3.6	15
11	Surface modified boron nitride towards enhanced thermal and mechanical performance of thermoplastic polyurethane composite. Composites Part B: Engineering, 2021, 218, 108871.	5.9	53
12	Flexible phase change materials for thermal energy storage. Energy Storage Materials, 2021, 41, 321-342.	9.5	128
13	Engineering the Thermal Conductivity of Functional Phaseâ€Change Materials for Heat Energy Conversion, Storage, and Utilization. Advanced Functional Materials, 2020, 30, 1904228.	7.8	202
14	Facile preparation of flexible eicosane/SWCNTs phase change films via colloid aggregation for thermal energy storage. Applied Energy, 2020, 260, 114320.	5.1	32
15	Hydroxyethylcellulose-g-poly(lactic acid) blended polyurethanes: Preparation, characterization and biological studies. International Journal of Biological Macromolecules, 2020, 151, 993-1003.	3.6	14
16	Synthesis and characterization of graphene nanoplatelets-hydroxyethyl cellulose copolymer-based polyurethane bionanocomposite system. International Journal of Biological Macromolecules, 2020, 165, 1889-1899.	3.6	15
17	Highly efficient solar-thermal storage coating based on phosphorene encapsulated phase change materials. Energy Storage Materials, 2020, 32, 199-207.	9.5	77
18	Microwaves heating strategy to synthesize few layer graphene for polymer composites towards thermal and electrical applications. Composites Science and Technology, 2020, 200, 108402.	3.8	5

#	Article	IF	Citations
19	Tuning the flexibility and thermal storage capacity of solidâ€“solid phase change materials towards wearable applications. Journal of Materials Chemistry A, 2020, 8, 20133-20140.	5.2	119
20	Carbon Fibers Embedded With Iron Selenide (Fe3Se4) as Anode for High-Performance Sodium and Potassium Ion Batteries. Frontiers in Chemistry, 2020, 8, 408.	1.8	30
21	Structural elucidation and biological aptitude of modified hydroxyethylcellulose-polydimethyl siloxane based polyurethanes. International Journal of Biological Macromolecules, 2020, 150, 426-440.	3.6	13
22	Encapsulating Trogtalite CoSe₂ Nanobuds into BCN Nanotubes as High Storage Capacity Sodium Ion Battery Anodes. Advanced Energy Materials, 2019, 9, 1901778.	10.2	131
23	A BN analog of two-dimensional triphenylene-graphdiyne: stability and properties. Nanoscale, 2019, 11, 9000-9007.	2.8	12
24	Synergistic Effect of Coâ€“Ni Hybrid Phosphide Nanocages for Ultrahigh Capacity Fast Energy Storage. Advanced Science, 2019, 6, 1802005.	5.6	130
25	Ultrafast Sodium/Potassiumâ€Ion Intercalation into Hierarchically Porous Thin Carbon Shells. Advanced Materials, 2019, 31, e1805430.	11.1	214
26	Polyurethane-based flexible and conductive phase change composites for energy conversion and storage. Energy Storage Materials, 2019, 20, 401-409.	9.5	192
27	Tunable Free-Standing Coreâ€“Shell CNT@MoSe₂ Anode for Lithium Storage. ACS Applied Materials & Interfaces, 2018, 10, 14622-14631.	4.0	78
28	Synthesis and characterization of chitin/curcumin blended polyurethane elastomers. International Journal of Biological Macromolecules, 2018, 113, 150-158.	3.6	24
29	Nanoconfined phase change materials for thermal energy applications. Energy and Environmental Science, 2018, 11, 1392-1424.	15.6	445
30	Large-scale fabrication of BCN nanotube architecture entangled on a three-dimensional carbon skeleton for energy storage. Journal of Materials Chemistry A, 2018, 6, 21225-21230.	5.2	62
31	Fe₂N/S/N Codecorated Hierarchical Porous Carbon Nanosheets for Trifunctional Electrocatalysis. Small, 2018, 14, e1803500.	5.2	80
32	The Application of Carbon Materials in Latent Heat Thermal Energy Storage (LHTES). , 2017, , 243-265.		7