Muhammad Waqas

List of Publications by Year
in descending order

24 papers	696 citations	623734 14 h-index	610901 24 g-index
24 all docs	24 docs citations	24 times ranked	788 citing authors

#	Article	IF	Citations
1	Electrochemical Performance of NiCo₂O₄ Spinel Cathodes for Intermediate Temperature Solid Oxide Fuel Cells. Physica Status Solidi (A) Applications and Materials Science, 2022, 219, 2100542.	1.8	4
2	Highly sensitive mechano-optical strain sensors based on 2D materials for human wearable monitoring and high-end robotic applications. Journal of Materials Chemistry C, 2022, 10, 932-940.	5.5	9
3	Nitrogenâ€Enriched Mesoporous Carbon Spheres as Efficient Anode Material for Longâ€Cycle Li/Naâ€Ion Batteries. Physica Status Solidi (A) Applications and Materials Science, 2022, 219, .	1.8	7
4	Decade of bio-inspired soft robots: a review. Smart Materials and Structures, 2022, 31, 073002.	3.5	34
5	Multi-material Bio-inspired Soft Octopus Robot for Underwater Synchronous Swimming. Journal of Bionic Engineering, 2022, 19, 1229-1241.	5.0	23
6	A highly efficient composite separator embedded with colloidal lanthanum oxide nanocrystals for highâ€temperature lithiumâ€ion batteries. International Journal of Energy Research, 2021, 45, 11179-11192.	4.5	6
7	Multifunctional Cathodic Interlayer with Polysulfide Immobilization Mechanism for Highâ€Performance Liâ€S Batteries. ChemistrySelect, 2020, 5, 12009-12019.	1.5	13
8	Hierarchical Selfâ€Supported Carbon Nanostructure Enables Superior Stability of Highly Nitrogenâ€Doped anodes. ChemElectroChem, 2020, 7, 3883-3888.	3.4	1
9	Molecular â€˜capturingâ€™ and â€˜seizingâ€™ MoS2/TiN interlayers suppress polysulfide shuttling and self-discharge of Liâ€“S batteries. Energy Storage Materials, 2020, 27, 333-341.	18.0	63
10	A highly efficient surface modified separator fabricated with atmospheric atomic layer deposition for high temperature lithium ion batteries. International Journal of Energy Research, 2020, 44, 7035-7046.	4.5	24
11	A Robust Surface-Modified Separator Fabricated with Roll-to-Roll Atomic Layer Deposition and Electrohydrodynamic Deposition Techniques for High Temperature Lithium Ion Batteries. Journal of the Electrochemical Society, 2020, 167, 160507.	2.9	14
12	A robust bi-layer separator with Lewis acid-base interaction for high-rate capacity lithium-ion batteries. Composites Part B: Engineering, 2019, 177, 107448.	12.0	23
13	Three-dimensional twisted fiber composite as high-loading cathode support for lithium sulfur batteries. Composites Part B: Engineering, 2019, 174, 107025.	12.0	16
14	Recent Development in Separators for Highâ€Temperature Lithiumâ€ion Batteries. Small, 2019, 15, e1901689.	10.0	158
15	Highâ€Performance PEâ€BN/PVDFâ€HFP Bilayer Separator for Lithiumâ€ion Batteries. Advanced Materials Interfaces, 2019, 6, 1801330.	3.7	67
16	Highly Efficient PVDFâ€HFP/Colloidal Alumina Composite Separator for Highâ€Temperature Lithiumâ€ion Batteries. Advanced Materials Interfaces, 2018, 5, 1701147.	3.7	89
17	Coupled dictionary learning in wavelet domain for Single-Image Super-Resolution. Signal, Image and Video Processing, 2018, 12, 453-461.	2.7	3
18	Carbonâ€“Tungsten Disulfide Composite Bilayer Separator for High-Performance Lithiumâ€“Sulfur Batteries. ACS Applied Materials & Interfaces, 2018, 10, 39417-39421.	8.0	44

#	Article	IF	Citations
19	A Highlyâ€Efficient Composite Separator with Strong Ligand Interaction for Highâ€Temperature Lithiumâ€Ion Batteries. ChemElectroChem, 2018, 5, 2722-2728.	3.4	37
20	An Efficient, Scalable Route to Robust PVDFâ€coâ€HFP/SiO₂ Separator for Longâ€Cycle Lithium Ion Batteries. Physica Status Solidi - Rapid Research Letters, 2018, 12, 1800319.	2.4	30
21	An Efficient Route to Polymeric Electrolyte Membranes with Interparticle Chain Microstructure Toward Highâ€Temperature Lithiumâ€Ion Batteries. Advanced Materials Interfaces, 2017, 4, 1601236.	3.7	22
22	Ionic conductivity evolution of isotropic crystal with double strained interfaces. Solid State Ionics, 2017, 303, 167-171.	2.7	2
23	Reduced electrochemical performances of proton exchange membrane fuel cells due to gaseous diffusion in electrolytes. RSC Advances, 2016, 6, 97194-97198.	3.6	2
24	Ionic conductivity evolution at strained crystal interfaces in solid oxide fuel cells (SOFCs). International Journal of Hydrogen Energy, 2016, 41, 22254-22259.	7.1	5