

Muhammad Sufyan Javed

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164
papers

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175
ext. papers

5,533
ext. citations

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avg, IF

6.09
L-index

#	Paper	IF	Citations
164	High performance solid state flexible supercapacitor based on molybdenum sulfide hierarchical nanospheres. <i>Journal of Power Sources</i> , 2015 , 285, 63-69	8.9	287
163	An ultra-high energy density flexible asymmetric supercapacitor based on hierarchical fabric decorated with 2D bimetallic oxide nanosheets and MOF-derived porous carbon polyhedra. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 946-957	13	148
162	Fabrication, structure, and frequency-dependent electrical and dielectric properties of Sr-doped BaTiO ₃ ceramics. <i>Ceramics International</i> , 2020 , 46, 2238-2246	5.1	126
161	2D V ₂ O ₅ nanosheets as a binder-free high-energy cathode for ultrafast aqueous and flexible Zn-ion batteries. <i>Nano Energy</i> , 2020 , 70, 104573	17.1	109
160	NiFe nanoparticles embedded N-doped carbon nanotubes as high-efficient electrocatalysts for wearable solid-state Zn-air batteries. <i>Nano Energy</i> , 2020 , 68, 104293	17.1	107
159	Flexible full-solid state supercapacitors based on zinc sulfide spheres growing on carbon textile with superior charge storage. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 667-674	13	104
158	Approaching the lithium-manganese oxides' energy storage limit with Li ₂ MnO ₃ nanorods for high-performance supercapacitor. <i>Nano Energy</i> , 2018 , 43, 168-176	17.1	103
157	Hierarchical mesoporous NiFe ₂ O ₄ nanocone forest directly growing on carbon textile for high performance flexible supercapacitors. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 8851-8859	13	102
156	Rational design of metal organic framework-derived FeS hollow nanocages@reduced graphene oxide for K-ion storage. <i>Nanoscale</i> , 2018 , 10, 17092-17098	7.7	97
155	Faradic redox active material of Cu ₇ S ₄ nanowires with a high conductance for flexible solid state supercapacitors. <i>Nanoscale</i> , 2015 , 7, 13610-8	7.7	95
154	Aligning graphene sheets in PDMS for improving output performance of triboelectric nanogenerator. <i>Carbon</i> , 2017 , 111, 569-576	10.4	95
153	Robust TiN nanoparticles polysulfide anchor for Li ₂ S storage and diffusion pathways using first principle calculations. <i>Chemical Engineering Journal</i> , 2020 , 391, 123595	14.7	93
152	Controlled synthesis of hierarchical birnessite-type MnO ₂ nanoflowers for supercapacitor applications. <i>Applied Surface Science</i> , 2015 , 356, 259-265	6.7	90
151	Novel gravel-like NiMoO ₄ nanoparticles on carbon cloth for outstanding supercapacitor applications. <i>Ceramics International</i> , 2020 , 46, 6406-6412	5.1	80
150	Tracking Pseudocapacitive Contribution to Superior Energy Storage of MnS Nanoparticles Grown on Carbon Textile. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 24621-8	9.5	62
149	A fully-packaged and robust hybridized generator for harvesting vertical rotation energy in broad frequency band and building up self-powered wireless systems. <i>Nano Energy</i> , 2017 , 33, 508-514	17.1	54
148	Achieving high-energy density and superior cyclic stability in flexible and lightweight pseudocapacitor through synergic effects of binder-free CoGa ₂ O ₄ 2D-hexagonal nanoplates. <i>Nano Energy</i> , 2020 , 77, 105276	17.1	54

147	Unique polyhedron CeO ₂ nanostructures for superior formaldehyde gas-sensing performances. <i>Ceramics International</i> , 2018 , 44, 19624-19630	5.1	53
146	Amaryllis-like NiCo ₂ S ₄ nanoflowers for high-performance flexible carbon-fiber-based solid-state supercapacitor. <i>Ceramics International</i> , 2016 , 42, 11851-11857	5.1	52
145	Construction of highly dispersed mesoporous bimetallic-sulfide nanoparticles locked in N-doped graphitic carbon nanosheets for high energy density hybrid flexible pseudocapacitors. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 17435-17445	13	50
144	Fuel cell technology for sustainable development in Pakistan [An over-view. <i>Renewable and Sustainable Energy Reviews</i> , 2016 , 53, 450-461	16.2	50
143	Mesoporous manganese-selenide microflowers with enhanced electrochemical performance as a flexible symmetric 1.8 V supercapacitor. <i>Chemical Engineering Journal</i> , 2020 , 382, 122814	14.7	50
142	Charge storage in binder-free 2D-hexagonal CoMoO ₄ nanosheets as a redox active material for pseudocapacitors. <i>Ceramics International</i> , 2021 , 47, 8659-8667	5.1	46
141	Carboxymethyl Cellulose Binder Greatly Stabilizes Porous Hollow Carbon Submicrospheres in Capacitive K-Ion Storage. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 15581-15590	9.5	44
140	Rational synthesis of Cu-doped porous MnO ₂ microsphere for high performance supercapacitor applications. <i>Electrochimica Acta</i> , 2016 , 191, 716-723	6.7	43
139	Highly reactive 0D ZnS nanospheres and nanoparticles for formaldehyde gas-sensing properties. <i>Sensors and Actuators B: Chemical</i> , 2017 , 239, 1243-1250	8.5	43
138	High energy density hybrid supercapacitor based on 3D mesoporous cuboidal Mn ₂ O ₃ and MOF-derived porous carbon polyhedrons. <i>Electrochimica Acta</i> , 2018 , 282, 1-9	6.7	42
137	Engineering of Zirconium based metal-organic frameworks (Zr-MOFs) as efficient adsorbents. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2020 , 262, 114766	3.1	42
136	Unique hierarchical mesoporous LaCrO ₃ perovskite oxides for highly efficient electrochemical energy storage applications. <i>Ceramics International</i> , 2019 , 45, 15164-15170	5.1	39
135	Ultra-fine CuO Nanoparticles Embedded in Three-dimensional Graphene Network Nano-structure for High-performance Flexible Supercapacitors. <i>Electrochimica Acta</i> , 2017 , 234, 63-70	6.7	36
134	Strongly Coupled NiCoO Nanocrystal/MXene Hybrid through In Situ Ni/Co-F Bonds for Efficient Wearable Zn-Air Batteries. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 44639-44647	9.5	36
133	Synthesis of mesoporous defective graphene-nanosheets in a space-confined self-assembled nanoreactor: Highly efficient capacitive energy storage. <i>Electrochimica Acta</i> , 2019 , 305, 517-527	6.7	35
132	One-step synthesis of unique catalyst Ni ₉ S ₈ @C for excellent MOR performances. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 24525-24533	6.7	35
131	Achieving high rate and high energy density in an all-solid-state flexible asymmetric pseudocapacitor through the synergistic design of binder-free 3D ZnCo ₂ O ₄ nano polyhedra and 2D layered Ti ₃ C ₂ T _x -MXenes. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 24543-24556	13	33
130	The energy crisis in Pakistan: A possible solution via biomass-based waste. <i>Journal of Renewable and Sustainable Energy</i> , 2016 , 8, 043102	2.5	32

129	RuO ₂ nanorods decorated CNTs grown carbon cloth as a free standing electrode for supercapacitor and lithium ion batteries. <i>Electrochimica Acta</i> , 2019 , 326, 135009	6.7	31
128	Combining structurally ordered intermetallic nodes: Kinetic and isothermal studies for removal of malachite green and methyl orange with mechanistic aspects. <i>Microchemical Journal</i> , 2021 , 164, 105973	4.8	30
127	A high-performance flexible solid-state supercapacitor based on Li-ion intercalation into tunnel-structure iron sulfide. <i>Electrochimica Acta</i> , 2016 , 219, 742-750	6.7	30
126	Distinctive flower-like CoNi ₂ S ₄ nanoneedle arrays (CNSNAs) for superior supercapacitor electrode performances. <i>Ceramics International</i> , 2020 , 46, 25942-25948	5.1	29
125	Facet controlled polyhedral ZIF-8 MOF nanostructures for excellent NO ₂ gas-sensing applications. <i>Materials Research Bulletin</i> , 2021 , 136, 111133	5.1	28
124	An oriented NiCo-MOF anchored on solution-free 1D CuO: a p-n heterojunction for supercapacitive energy storage. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 17790-17800	13	28
123	Magnetism in SrTiO ₃ before and after UV irradiation. <i>Applied Surface Science</i> , 2015 , 335, 115-120	6.7	25
122	High-performance flexible hybrid-supercapacitor enabled by pairing binder-free ultrathin NiCoO ₂ nanosheets and metal-organic framework derived N-doped carbon nanosheets. <i>Electrochimica Acta</i> , 2020 , 349, 136384	6.7	25
121	In-situ growth of MnO ₂ nanorods forest on carbon textile as efficient electrode material for supercapacitors. <i>Journal of Energy Storage</i> , 2018 , 17, 318-326	7.8	24
120	Hydrothermal synthesis of reduced graphene oxide-Mn ₃ O ₄ nanocomposite as an efficient electrode materials for supercapacitors. <i>Ceramics International</i> , 2018 , 44, 3580-3584	5.1	24
119	FeCo-N _x encapsulated in 3D interconnected N-doped carbon nanotubes for ultra-high performance lithium-ion batteries and flexible solid-state symmetric supercapacitors. <i>Journal of Electroanalytical Chemistry</i> , 2019 , 855, 113615	4.1	23
118	Optimizing Size of Variable Renewable Energy Sources by Incorporating Energy Storage and Demand Response. <i>IEEE Access</i> , 2019 , 7, 103115-103126	3.5	22
117	The effects of NaF concentration on electrochemical and corrosion behavior of AZ31B magnesium alloy in a composite electrolyte. <i>RSC Advances</i> , 2017 , 7, 5880-5887	3.7	21
116	Novel Mn-/Co-N Moieties Captured in N-Doped Carbon Nanotubes for Enhanced Oxygen Reduction Activity and Stability in Acidic and Alkaline Media. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 23191-23200	9.5	20
115	Electrochemical studies of perovskite cathode material for direct natural gas fuel cell. <i>International Journal of Hydrogen Energy</i> , 2016 , 41, 3072-3078	6.7	19
114	2D MXene Materials for Sodium Ion Batteries: A review on Energy Storage. <i>Journal of Energy Storage</i> , 2021 , 37, 102478	7.8	19
113	Electrochemical investigations of cobalt-free perovskite cathode material for intermediate temperature solid oxide fuel cell. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 10416-10422	6.7	18
112	Promoting power density by cleaving LiCoO ₂ into nano-flake structure for high performance supercapacitor. <i>Nanoscale</i> , 2017 , 9, 5509-5516	7.7	18

111	Nano-engineering of prussian blue analogues to core-shell architectures: Enhanced catalytic activity for zinc-air battery. <i>Journal of Colloid and Interface Science</i> , 2020 , 578, 89-95	9.3	18
110	Binder-free trimetallic phosphate nanosheets as an electrode: Theoretical and experimental investigation. <i>Journal of Power Sources</i> , 2021 , 513, 230556	8.9	18
109	Single noble metal atoms doped 2D materials for catalysis. <i>Applied Catalysis B: Environmental</i> , 2021 , 297, 120389	21.8	17
108	Polymer-assisted co-axial multi-layered circular ZnO nanodisks. <i>Materials Letters</i> , 2015 , 152, 260-263	3.3	16
107	Microstructure and Mechanical Properties of MoSi ₂ Coating Deposited on Mo Substrate by Hot Dipping Processes. <i>Journal of Nanoelectronics and Optoelectronics</i> , 2019 , 14, 1680-1685	1.3	16
106	Integration of Different Individual Heating Scenarios and Energy Storages into Hybrid Energy System Model of China for 2030. <i>Energies</i> , 2019 , 12, 2083	3.1	15
105	Surface assembly of Fe ₃ O ₄ nanodisks embedded in reduced graphene oxide as a high-performance negative electrode for supercapacitors. <i>Ceramics International</i> , 2020 , 46, 19499-19505	5.1	15
104	Highly efficient composite electrolyte for natural gas fed fuel cell. <i>International Journal of Hydrogen Energy</i> , 2016 , 41, 6972-6979	6.7	15
103	Exploring Li-ion hopping behavior in zinc ferrite and promoting performance for flexible solid-state supercapacitor. <i>Electrochimica Acta</i> , 2019 , 295, 558-568	6.7	15
102	Anchoring 2D NiMoO ₄ nano-plates on flexible carbon cloth as a binder-free electrode for efficient energy storage devices. <i>Ceramics International</i> , 2020 , 46, 4470-4476	5.1	15
101	Experimental and theoretical study of highly porous lignocellulose assisted metal oxide photoelectrodes for dye-sensitized solar cells. <i>Arabian Journal of Chemistry</i> , 2021 , 14, 102937	5.9	15
100	2D V ₂ O ₅ nanoflakes as a binder-free electrode material for high-performance pseudocapacitor. <i>Ceramics International</i> , 2021 , 47, 25152-25157	5.1	15
99	Flexible and transparent graphene-based supercapacitors decorated with nanohybrid of tungsten oxide nanoflakes and nitrogen-doped-graphene quantum dots. <i>Ceramics International</i> , 2020 , 46, 23145-23154	5.1	14
98	Rational design of CuO nanostructures grown on carbon fiber fabrics with enhanced electrochemical performance for flexible supercapacitor. <i>Journal of Materials Science</i> , 2018 , 53, 739-748	4.3	14
97	High entropy alloys as electrode material for supercapacitors: A review. <i>Journal of Energy Storage</i> , 2021 , 44, 103405	7.8	13
96	Quality assessment of the noncarbonated-bottled drinking water: comparison of their treatment techniques. <i>International Journal of Environmental Analytical Chemistry</i> , 2020 , 1-12	1.8	13
95	Facile synthesis of a novel Fe ₃ O ₄ -rGO-MoO ₃ ternary nano-composite for high-performance hybrid energy storage applications. <i>Ceramics International</i> , 2020 , 46, 3124-3131	5.1	13
94	Partially oxidized cobalt species in nitrogen-doped carbon nanotubes: Enhanced catalytic performance to water-splitting. <i>International Journal of Hydrogen Energy</i> , 2021 , 46, 8864-8870	6.7	13

93	The nexus of industrialization, GDP per capita and CO ₂ emission in China. <i>Environmental Technology and Innovation</i> , 2021 , 23, 101674	7	12
92	Insights to pseudocapacitive charge storage of binary metal-oxide nanobelts decorated activated carbon cloth for highly-flexible hybrid-supercapacitors. <i>Journal of Energy Storage</i> , 2020 , 31, 101602	7.8	11
91	Recent Progress in Capacity Enhancement of LiFePO ₄ Cathode for Li-Ion Batteries. <i>Journal of Electrochemical Energy Conversion and Storage</i> , 2021 , 18,	2	11
90	Single-atom catalysis for Zinc-air/O ₂ Batteries, Water Electrolyzers and Fuel Cells applications. <i>Energy Storage Materials</i> , 2021 ,	19.4	11
89	Single-atom Catalysts for Next-generation Rechargeable Batteries and Fuel Cells. <i>Energy Storage Materials</i> , 2021 , 45, 301-301	19.4	11
88	Recent progress in trimetallic/ternary-metal oxides nanostructures: Misinterpretation/misconception of electrochemical data and devices. <i>Applied Materials Today</i> , 2022 , 26, 101297	6.6	11
87	Freestanding polypyrrole/carbon nanotube electrodes with high mass loading for robust flexible supercapacitors. <i>Materials Chemistry Frontiers</i> , 2021 , 5, 1324-1329	7.8	11
86	Facile synthesis of cobalt ferrite nanoparticles (CFO-NPs) as anode material with enhanced lithium storage capability. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2018 , 236-237, 162-169	3.1	11
85	Design and fabrication of bimetallic oxide nanonest-like structure/carbon cloth composite electrode for supercapacitors. <i>Ceramics International</i> , 2021 , 47, 30747-30755	5.1	11
84	Novel binder-free electrode of NiCo ₂ O ₄ @NiMn ₂ O ₄ core-shell arrays modified carbon fabric for enhanced electrochemical properties. <i>Ceramics International</i> , 2019 , 45, 16904-16910	5.1	10
83	Synthesis and nano-engineering of MXenes for energy conversion and storage applications: Recent advances and perspectives. <i>Coordination Chemistry Reviews</i> , 2022 , 454, 214339	23.2	10
82	One-step synthesis of carbon incorporated 3D MnO ₂ nanorods as a highly efficient electrode material for pseudocapacitors. <i>Materials Letters</i> , 2021 , 295, 129838	3.3	10
81	Recent trends in transition metal diselenides (XSe ₂ : X=Fe, Ni, Mn, Co) and their composites for high energy faradic supercapacitors. <i>Journal of Energy Storage</i> , 2021 , 43, 103176	7.8	10
80	Influence of additives fluoride and phosphate on the electrochemical performance of Mg/MnO ₂ battery. <i>Journal of Applied Electrochemistry</i> , 2017 , 47, 767-775	2.6	9
79	Composite electrolyte with proton conductivity for low-temperature solid oxide fuel cell. <i>Applied Physics Letters</i> , 2015 , 107, 183903	3.4	9
78	Characteristics and Photovoltaic Applications of Au-Doped ZnO-Sm Nanoparticle Films. <i>Nanomaterials</i> , 2021 , 11,	5.4	9
77	High-performance flexible supercapatteries enabled by binder-free two-dimensional mesoporous ultrathin nickel-ferrite nanosheets. <i>Materials Chemistry Frontiers</i> , 2021 , 5, 3436-3447	7.8	9
76	WGs sensor based on integrated wind-induced generating units for 360° wind energy harvesting and self-powered wind velocity sensing. <i>RSC Advances</i> , 2017 , 7, 23208-23214	3.7	8

75	Synthesis, characterization and charge storage properties of C60-fullerene microparticles as a flexible negative electrode for supercapacitors. <i>Journal of Materials Science: Materials in Electronics</i> , 2019 , 30, 8568-8576	2.1	8
74	High-performance flexible supercapacitors based on C/Na ₂ Ti ₅ O ₁₁ nanocomposite electrode materials. <i>Journal of Materials Science</i> , 2017 , 52, 13897-13908	4.3	8
73	Research progress and future aspects: Metal selenides as effective electrodes. <i>Energy Storage Materials</i> , 2022 , 47, 13-43	19.4	8
72	Phosphorus containing layered quadruple hydroxide electrode materials on lab waste recycled flexible current collector. <i>Journal of Colloid and Interface Science</i> , 2021 , 609, 566-566	9.3	8
71	Influence of Repetitive Square Voltage Duty Cycle on the Electrical Tree Characteristics of Epoxy Resin. <i>Polymers</i> , 2020 , 12,	4.5	8
70	Efficient removal of norfloxacin by MOF@GO composite: isothermal, kinetic, statistical, and mechanistic study. <i>Toxin Reviews</i> , 2020 , 1-13	2.3	8
69	Enhanced adsorption removal of methyl orange from water by porous bimetallic Ni/Co MOF composite: a systematic study of adsorption kinetics. <i>International Journal of Environmental Analytical Chemistry</i> , 1-16	1.8	8
68	Novel 2D vanadium oxysulfide nano-spindles decorated carbon textile composite as an advanced electrode for high-performance pseudocapacitors. <i>Materials Letters</i> , 2021 , 303, 130478	3.3	8
67	Flower-structured titanium oxide with two phase coexistence supported Pt electrocatalyst for effective enhancement of electrocatalytic activity. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 5948-5957	6.7	7
66	Enhanced thermoelectric properties in Ge-doped and single-filled skutterudites prepared by unique melt-spinning method. <i>Ceramics International</i> , 2018 , 44, 12610-12614	5.1	7
65	Mn ₃ O ₄ nanosheets decorated on flexible carbon fabric for high-performance supercapacitors electrode. <i>Materials Letters</i> , 2018 , 210, 148-152	3.3	7
64	Kinetics, isothermal and mechanistic insight into the adsorption of eosin yellow and malachite green from water via tri-metallic layered double hydroxide nanosheets. <i>Korean Journal of Chemical Engineering</i> , 2022 , 39, 216-226	2.8	7
63	Hollow nano- and microstructures: Mechanism, composition, applications, and factors affecting morphology and performance. <i>Coordination Chemistry Reviews</i> , 2022 , 458, 214429	23.2	7
62	Coordination and interface engineering to boost catalytic property of two-dimensional ZIFs for wearable Zn-air batteries. <i>Journal of Energy Chemistry</i> , 2021 ,	12	7
61	Significance of demand response in light of current pilot projects in China and devising a problem solution for future advancements. <i>Technology in Society</i> , 2020 , 63, 101374	6.3	7
60	Energy storage properties of hydrothermally processed ultrathin 2D binder-free ZnCoO nanosheets. <i>Nanotechnology</i> , 2021 , 32,	3.4	7
59	ZnO Nano-Flowers Assembled on Carbon Fiber Textile for High-Performance Supercapacitor Electrode. <i>Coatings</i> , 2021 , 11, 1337	2.9	6
58	In Situ Curing Technology for Dual Ceramic Composed by Organic/Inorganic Functional Polymer Gel Electrolyte for Dendritic-Free and Robust Lithium/Metal Batteries. <i>Advanced Materials Interfaces</i> , 2020 , 7, 2000830	4.6	6

57	Energy storage performance of binder-free ruthenium-oxide nano-needles based free-standing electrode in neutral pH electrolytes. <i>Electrochimica Acta</i> , 2021 , 378, 138139	6.7	6
56	Unique oblate-like ZnWO ₄ nanostructures for electrochemical energy storage performances. <i>Materials Letters</i> , 2019 , 240, 103-107	3.3	6
55	Significant Reduction in Interface Resistance and Super-Enhanced Performance of Lithium-Metal Battery by In Situ Construction of Poly(vinylidene fluoride)-Based Solid-State Membrane with Dual Ceramic Fillers. <i>ACS Applied Energy Materials</i> , 2021 , 4, 8604-8614	6.1	6
54	Rationally designed Mn ₂ O ₃ /Cu ₂ O core-shell heterostructure generated on copper foam as binder-free electrode for flexible asymmetric supercapacitor. <i>Applied Surface Science</i> , 2021 , 566, 150715	6.7	6
53	Engaging tailored capacity of layered WS ₂ via sulphur bonding coupled with polyetherimide (WS ₂ @NC) nanocomposite for high power and improved lithium-ion storage. <i>Materials Chemistry and Physics</i> , 2020 , 246, 122832	4.4	5
52	Decorating spherical In ₂ O ₃ nanoparticles onto ZnO nanosheets for outstanding gas-sensing performances. <i>Journal of Materials Science: Materials in Electronics</i> , 2020 , 31, 3924-3933	2.1	5
51	High-Temperature Thermoelectric Properties of Ge-Substituted p-Type Nd-Filled Skutterudites. <i>Journal of Electronic Materials</i> , 2017 , 46, 2958-2963	1.9	5
50	Modified KBBF-like Material for Energy Storage Applications: ZnNiBO(OH) with Enhanced Cycle Life.. <i>ACS Applied Materials & Interfaces</i> , 2022 ,	9.5	5
49	Metal-Organic Frameworks Derived Electrocatalysts for Oxygen and Carbon Dioxide Reduction Reaction.. <i>Chemical Record</i> , 2022 , e202100329	6.6	5
48	Solution Processed ZnSmCuO Nanorod Arrays for Dye Sensitized Solar Cells. <i>Nanomaterials</i> , 2021 , 11,	5.4	5
47	Design and Fabrication of Highly Porous 2D Bimetallic Sulfide ZnS/FeS Composite Nanosheets as an Advanced Negative Electrode Material for Supercapacitors. <i>Energy & Fuels</i> , 2021 , 35, 15185-15191	4.1	5
46	Free-standing 3D Co ₃ O ₄ @NF micro-flowers composed of porous ultra-long nanowires as an advanced cathode material for supercapacitor. <i>Current Applied Physics</i> , 2021 , 31, 221-227	2.6	5
45	Super-fast preparation of Nd-filled p-type skutterudite compounds with enhanced thermoelectric properties. <i>Ceramics International</i> , 2017 , 43, 7443-7447	5.1	4
44	Vanadium disulfide nanosheets loaded on carbon cloth as electrode for flexible quasi-solid-state asymmetric supercapacitors: energy storage mechanism and electrochemical performance. <i>Journal of Materials Chemistry C</i> ,	7.1	4
43	Short Term Load Forecasting Using Bootstrap Aggregating Based Ensemble Artificial Neural Network. <i>Recent Advances in Electrical and Electronic Engineering</i> , 2020 , 13, 980-992	0.3	4
42	Salt-assisted gas-liquid interfacial fluorine doping: Metal-free defect-induced electrocatalyst for oxygen reduction reaction. <i>Molecular Catalysis</i> , 2021 , 514, 111878	3.3	4
41	Identification of Catalytic Active Sites for Durable Proton Exchange Membrane Fuel Cell: Catalytic Degradation and Poisoning Perspectives.. <i>Small</i> , 2022 , e2106279	11	4
40	The Emergence of 2D MXenes Based Zn-Ion Batteries: Recent Development and Prospects. <i>Small</i> , 2019 ,	8.9	4

39	Growth of hierarchical birnessite-type Cu _{0.45} Mn _{0.55} O ₂ nanosheets on flexible carbon textile for high-performance supercapacitors electrode. <i>Journal of Alloys and Compounds</i> , 2017 , 725, 1223-1229	5.7	3
38	Unprecedented Dual Role of Polyaniline for Enhanced Pseudocapacitance of Cobalt-iron Layered Double Hydroxide.. <i>Macromolecular Rapid Communications</i> , 2022 , e2100905	4.8	3
37	Nitrogen and Sulfur Co-doped Two-Dimensional Highly Porous Carbon Nanosheets for High-Performance Lithium-Sulfur Batteries. <i>Energy & Fuels</i> ,	4.1	3
36	Nanostructure Engineering of Metal-Organic Derived Frameworks: Cobalt Phosphide Embedded in Carbon Nanotubes as an Efficient ORR Catalyst. <i>Molecules</i> , 2021 , 26,	4.8	3
35	S-scheme Ti _{0.7} Sn _{0.3} O ₂ /g-C ₃ N ₄ heterojunction composite for enhanced photocatalytic pollutants degradation. <i>Journal of Environmental Chemical Engineering</i> , 2022 , 10, 107118	6.8	3
34	Construction of binder-free hierarchical mesoporous 3D CoMoD flowers assembled by nanosheets for aqueous symmetrical 1.2 V supercapacitor in basic electrolyte. <i>Electrochimica Acta</i> , 2020 , 330, 135201	6.7	3
33	Facile synthesis of ceria-based composite oxide materials by combustion for high-performance solid oxide fuel cells. <i>Ceramics International</i> , 2021 , 47, 22035-22035	5.1	3
32	Polyvinyl Alcohol and Nano-Clay Based Solution Processed Packaging Coatings. <i>Coatings</i> , 2021 , 11, 942	2.9	3
31	SnSnanosheet arrays anchoring on functionalized carbon cloth for quasi-solid-state flexible supercapacitor with satisfactory electrochemical performance and mechanical stability. <i>Nanotechnology</i> , 2021 , 32,	3.4	3
30	Boosted electrochemical performance of CuS anchored on carbon cloth as an integrated electrode for quasi-solid-state flexible supercapacitor. <i>Journal of Electroanalytical Chemistry</i> , 2021 , 897, 115610	4.1	3
29	Effects of bipolar repetitive square wave voltage parameters on electrical tree characteristics of epoxy resin. <i>Polymer Testing</i> , 2021 , 103, 107371	4.5	3
28	Mechanical Characteristics and Adhesion of Glass-Kevlar Hybrid Composites by Applying Different Ratios of Epoxy in Lamination. <i>Coatings</i> , 2021 , 11, 94	2.9	3
27	Synthetic Methodologies and Energy Storage/Conversion Applications of Porous Carbon Nanosheets: A Systematic Review. <i>Energy & Fuels</i> , 2022 , 36, 3420-3442	4.1	3
26	Dumbbell-shaped mixed bimetallic-oxides decorated on carbon-fiber textile for high-performance flexible symmetric solid-state pseudocapacitors. <i>Materials Letters</i> , 2019 , 253, 50-54	3.3	2
25	Energy storage properties of hydrothermally processed, nanostructured, porous CeO ₂ nanoparticles. <i>Journal of Electroanalytical Chemistry</i> , 2020 , 865, 114158	4.1	2
24	A novel TiO ₂ /CuSe based nanocomposite for high-voltage asymmetric supercapacitors. <i>Journal of Science: Advanced Materials and Devices</i> , 2022 , 7, 100418	4.2	2
23	Surface engineering of MOF-derived FeCo/NC core-shell nanostructures to enhance alkaline water-splitting. <i>International Journal of Hydrogen Energy</i> , 2022 , 47, 5036-5043	6.7	2
22	Polypyrrole and polyaniline-based membranes for fuel cell devices: A review. <i>Surfaces and Interfaces</i> , 2022 , 29, 101738	4.1	2

21	Multioxide phase-based nanocomposite electrolyte (M@SDC where M= Zn ²⁺ / Ba ²⁺ / La ³⁺ /Zr ²⁺ /Al ³⁺) materials. <i>Ceramics International</i> , 2020 , 46, 6882-6888	5.1	2
20	Learning-detailed 3D face reconstruction based on convolutional neural networks from a single image. <i>Neural Computing and Applications</i> , 2021 , 33, 5951-5964	4.8	2
19	Engineering the performance of negative electrode for supercapacitor by polyaniline coated Fe ₃ O ₄ nanoparticles enables high stability up to 25,000 cycles. <i>International Journal of Hydrogen Energy</i> , 2021 , 46, 9976-9987	6.7	2
18	Carbon encapsulated mixed-metal sulfide as proficient electrocatalyst for hydrogen evolution reaction. <i>Journal of Materials Science: Materials in Electronics</i> , 2019 , 30, 14762-14771	2.1	1
17	Recent advances and perspectives in carbon-based fillers reinforced Si ₃ N ₄ composite for high power electronic devices. <i>Ceramics International</i> , 2022 ,	5.1	1
16	NiSe ₂ nanocrystals intercalated rGO sheets as a high-performance asymmetric supercapacitor electrode. <i>Ceramics International</i> , 2021 , 48, 5509-5509	5.1	1
15	In-vitro evaluation of antimicrobial, antioxidant, alpha-amylase inhibition and cytotoxicity properties of Cannabis sativa. <i>Advances in Traditional Medicine</i> , 2020 , 20, 181-187	1.4	1
14	Quantum mechanical interpretation and analysis of perovskite material based single layer fuel cells (SLFCs). <i>International Journal of Hydrogen Energy</i> , 2021 , 46, 9957-9967	6.7	1
13	3D nanostructured Cu ₂ O modified copper foam as a binder-free electrode for all-solid-state supercapacitor. <i>Ceramics International</i> , 2021 , 47, 31138-31148	5.1	1
12	Nanostructure engineering by surficial induced approach: Porous metal oxide-carbon nanotube composite for lithium-ion battery. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2021 , 273, 115417	3.1	1
11	Adsorption and electrochemical facet of polymer precursor to yield mesoporous carbon ceramic. <i>Separation and Purification Technology</i> , 2021 , 275, 119199	8.3	1
10	Modulating the electronic structure of zinc single atom catalyst by P/N coordination and Co ₂ P supports for efficient oxygen reduction in Zn-Air battery. <i>Chemical Engineering Journal</i> , 2022 , 440, 135928	14.7	1
9	Recent Advances in Synthesis and Applications of Single-Atom Catalysts for Rechargeable Batteries.. <i>Chemical Record</i> , 2021 ,	6.6	1
8	Optimized economic operation of energy storage integration using improved gravitational search algorithm and dual stage optimization. <i>Journal of Energy Storage</i> , 2022 , 50, 104591	7.8	1
7	Cryogenic-Energy-Storage-Based Optimized Green Growth of an Integrated and Sustainable Energy System. <i>Sustainability</i> , 2022 , 14, 5301	3.6	1
6	MFC-driven H ₂ S electro-oxidation based on Fe nanoparticles anchored on carbon aerogel-ZIF-8: a combined experimental and DFT study. <i>Journal of Materials Chemistry C</i> , 2022 , 10, 1421-1435	7.1	0
5	Low-temperature synthesis of 3D copper selenide micro-flowers for high-performance supercapacitors. <i>Materials Letters</i> , 2022 , 314, 131857	3.3	0
4	Metal-organic framework-derived walnut-like hierarchical Co-O-nanosheets as an advanced binder-free electrode material for flexible supercapacitor. <i>Journal of Energy Storage</i> , 2022 , 49, 104150	7.8	0

- 3 Weight Loss during Calcination and Sintering Process of $\text{Na}_{0.5}\text{Bi}_{0.5}\text{TiO}_3\text{Bi}_{1/2}(\text{Mg}_{2/3}\text{Nb}_{1/3})\text{O}_3$ Composite Lead-Free Piezoelectric Ceramics. *Coatings*, **2021**, 11, 676 2.9 ○
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