

Muhammad Sufyan Javed

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

164
papers

3,750
citations

33
h-index

55
g-index

175
ext. papers

5,533
ext. citations

6.6
avg, IF

6.09
L-index

#	Paper	IF	Citations
164	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
163	Unprecedented Dual Role of Polyaniline for Enhanced Pseudocapacitance of Cobalt-iron Layered Double Hydroxide.. <i>Macromolecular Rapid Communications</i> , 2022 , e2100905	4.8	3
162	Research progress and future aspects: Metal selenides as effective electrodes. <i>Energy Storage Materials</i> , 2022 , 47, 13-43	19.4	8
161	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
160	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
159	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
158	Low-temperature synthesis of 3D copper selenide micro-flowers for high-performance supercapacitors. <i>Materials Letters</i> , 2022 , 314, 131857	3.3	0
157	Modified KBBF-like Material for Energy Storage Applications: ZnNiBO(OH) with Enhanced Cycle Life.. <i>ACS Applied Materials & Interfaces</i> , 2022 ,	9.5	5
156	Polypyrrole and polyaniline-based membranes for fuel cell devices: A review. <i>Surfaces and Interfaces</i> , 2022 , 29, 101738	4.1	2
155	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
154	Metal-Organic Frameworks Derived Electrocatalysts for Oxygen and Carbon Dioxide Reduction Reaction.. <i>Chemical Record</i> , 2022 , e202100329	6.6	5
153	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
152	Hollow nano- and microstructures: Mechanism, composition, applications, and factors affecting morphology and performance. <i>Coordination Chemistry Reviews</i> , 2022 , 458, 214429	23.2	7
151	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
150	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
149	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
148	Identification of Catalytic Active Sites for Durable Proton Exchange Membrane Fuel Cell: Catalytic Degradation and Poisoning Perspectives.. <i>Small</i> , 2022 , e2106279	11	4

147	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
146	Modulating the electronic structure of zinc single atom catalyst by P/N coordination and Co2P supports for efficient oxygen reduction in Zn-Air battery. <i>Chemical Engineering Journal</i> , 2022 , 440, 135928	14.7	1
145	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
144	Cryogenic-Energy-Storage-Based Optimized Green Growth of an Integrated and Sustainable Energy System. <i>Sustainability</i> , 2022 , 14, 5301	3.6	1
143	The role of advanced host materials and binders for improving lithium-sulfur battery performance 2022 , 297-324		
142	Recent Progress in Capacity Enhancement of LiFePO4 Cathode for Li-Ion Batteries. <i>Journal of Electrochemical Energy Conversion and Storage</i> , 2021 , 18,	2	11
141	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
140	NiSe2 nanocrystals intercalated rGO sheets as a high-performance asymmetric supercapacitor electrode. <i>Ceramics International</i> , 2021 , 48, 5509-5509	5.1	1
139	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
138	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
137	Single-atom catalysis for Zinc-air/O2 Batteries, Water Electrolyzers and Fuel Cells applications. <i>Energy Storage Materials</i> , 2021 ,	19.4	11
136	Single-atom Catalysts for Next-generation Rechargeable Batteries and Fuel Cells. <i>Energy Storage Materials</i> , 2021 , 45, 301-301	19.4	11
135	High entropy alloys as electrode material for supercapacitors: A review. <i>Journal of Energy Storage</i> , 2021 , 44, 103405	7.8	13
134	ZnO Nano-Flowers Assembled on Carbon Fiber Textile for High-Performance Supercapacitor Electrode. <i>Coatings</i> , 2021 , 11, 1337	2.9	6
133	Characteristics and Photovoltaic Applications of Au-Doped ZnO-Sm Nanoparticle Films. <i>Nanomaterials</i> , 2021 , 11,	5.4	9
132	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
131	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
130	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

129	2D MXene Materials for Sodium Ion Batteries: A review on Energy Storage. <i>Journal of Energy Storage</i> , 2021 , 37, 102478	7.8	19
128	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
127	Weight Loss during Calcination and Sintering Process of Na _{0.5} Bi _{0.5} TiO ₃ Bi _{1/2} (Mg _{2/3} Nb _{1/3})O ₃ Composite Lead-Free Piezoelectric Ceramics. <i>Coatings</i> , 2021 , 11, 676	2.9	0
126	Solution Processed ZnSmCuO Nanorod Arrays for Dye Sensitized Solar Cells. <i>Nanomaterials</i> , 2021 , 11,	5.4	5
125	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
124	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
123	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
122	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
121	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
120	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
119	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
118	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
117	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
116	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
115	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
114	Energy storage properties of hydrothermally processed ultrathin 2D binder-free ZnCoO nanosheets. <i>Nanotechnology</i> , 2021 , 32,	3.4	7
113	Polyvinyl Alcohol and Nano-Clay Based Solution Processed Packaging Coatings. <i>Coatings</i> , 2021 , 11, 942	2.9	3
112	The nexus of industrialization, GDP per capita and CO ₂ emission in China. <i>Environmental Technology and Innovation</i> , 2021 , 23, 101674	7	12

111	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
110	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
109	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
108	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
107	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
106	2D V2O5 nanoflakes as a binder-free electrode material for high-performance pseudocapacitor. <i>Ceramics International</i> , 2021 , 47, 25152-25157	5.1	15
105	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
104	Recent trends in transition metal diselenides (XSe ₂ : X= Ni, Mn, Co) and their composites for high energy faradic supercapacitors. <i>Journal of Energy Storage</i> , 2021 , 43, 103176	7.8	10
103	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
102	Single noble metal atoms doped 2D materials for catalysis. <i>Applied Catalysis B: Environmental</i> , 2021 , 297, 120389	21.8	17
101	Binder-free trimetallic phosphate nanosheets as an electrode: Theoretical and experimental investigation. <i>Journal of Power Sources</i> , 2021 , 513, 230556	8.9	18
100	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
99	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
98	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
97	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
96	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
95	Adsorption and electrochemical facet of polymer precursor to yield mesoporous carbon ceramic. <i>Separation and Purification Technology</i> , 2021 , 275, 119199	8.3	1
94	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

93	Recent Advances in Synthesis and Applications of Single-Atom Catalysts for Rechargeable Batteries.. <i>Chemical Record</i> , 2021 ,	6.6	1
92	Preferential photo-carrier exchange in (010) facet of BiVO ₄ with decorated CdS nanoparticles. <i>Applied Physics Letters</i> , 2021 , 119, 253902	3.4	0
91	Surface assembly of Fe ₃ O ₄ nanodiscs embedded in reduced graphene oxide as a high-performance negative electrode for supercapacitors. <i>Ceramics International</i> , 2020 , 46, 19499-19505	5.1	15
90	High-performance flexible hybrid-supercapacitor enabled by pairing binder-free ultrathin NiCo ₂ O ₄ nanosheets and metal-organic framework derived N-doped carbon nanosheets. <i>Electrochimica Acta</i> , 2020 , 349, 136384	6.7	25
89	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
88	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
87	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
86	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
85	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
84	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
83	Energy storage properties of hydrothermally processed, nanostructured, porous CeO ₂ nanoparticles. <i>Journal of Electroanalytical Chemistry</i> , 2020 , 865, 114158	4.1	2
82	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
81	Construction of binder-free hierarchical mesoporous 3D CoMoO ₄ flowers assembled by nanosheets for aqueous symmetrical 1.2 V supercapacitor in basic electrolyte. <i>Electrochimica Acta</i> , 2020 , 330, 135201	6.7	3
80	Novel gravel-like NiMoO ₄ nanoparticles on carbon cloth for outstanding supercapacitor applications. <i>Ceramics International</i> , 2020 , 46, 6406-6412	5.1	80
79	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
78	Robust TiN nanoparticles polysulfide anchor for Li ⁺ storage and diffusion pathways using first principle calculations. <i>Chemical Engineering Journal</i> , 2020 , 391, 123595	14.7	93
77	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
76	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

75	Influence of Repetitive Square Voltage Duty Cycle on the Electrical Tree Characteristics of Epoxy Resin. <i>Polymers</i> , 2020 , 12,	4.5	8
74	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
73	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
72	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
71	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
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	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
68	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
67	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
66	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
65	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
64	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
63	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
62	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
61	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
60	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
59	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
58	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

57	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
56	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
55	Synthesis, characterization and charge storage properties of C ₆₀ -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
54	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
53	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
52	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
51	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
50	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
49	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
48	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
47	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
46	Unique oblate-like ZnWO ₄ nanostructures for electrochemical energy storage performances. <i>Materials Letters</i> , 2019 , 240, 103-107	3.3	6
45	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
44	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
43	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
42	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
41	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
40	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

39	Unique polyhedron CeO ₂ nanostructures for superior formaldehyde gas-sensing performances. <i>Ceramics International</i> , 2018 , 44, 19624-19630	5.1	53
38	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
37	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
36	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
35	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
34	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
33	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
32	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
31	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
30	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
29	WGUs 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
28	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
27	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
26	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
25	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
24	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
23	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
22	Aligning graphene sheets in PDMS for improving output performance of triboelectric nanogenerator. <i>Carbon</i> , 2017 , 111, 569-576	10.4	95

21	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
20	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
19	Rational synthesis of Cu-doped porous γ -MnO ₂ microsphere for high performance supercapacitor applications. <i>Electrochimica Acta</i> , 2016 , 191, 716-723	6.7	43
18	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
17	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
16	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
15	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
14	Highly efficient composite electrolyte for natural gas fed fuel cell. <i>International Journal of Hydrogen Energy</i> , 2016 , 41, 6972-6979	6.7	15
13	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
12	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
11	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
10	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
9	Polymer-assisted co-axial multi-layered circular ZnO nanodisks. <i>Materials Letters</i> , 2015 , 152, 260-263	3.3	16
8	Magnetism in SrTiO ₃ before and after UV irradiation. <i>Applied Surface Science</i> , 2015 , 335, 115-120	6.7	25
7	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
6	Controlled synthesis of hierarchical birnessite-type MnO ₂ nanoflowers for supercapacitor applications. <i>Applied Surface Science</i> , 2015 , 356, 259-265	6.7	90
5	Composite electrolyte with proton conductivity for low-temperature solid oxide fuel cell. <i>Applied Physics Letters</i> , 2015 , 107, 183903	3.4	9
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