

# Ghulam Ali

## List of Publications by Year in descending order

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87  
papers

3,226  
citations

159585

30  
h-index

161849

54  
g-index

88  
all docs

88  
docs citations

88  
times ranked

4573  
citing authors

#	ARTICLE	IF	CITATIONS
1	Anatase Titania Nanorods as an Intercalation Anode Material for Rechargeable Sodium Batteries. <i>Nano Letters</i> , 2014, 14, 416-422.	9.1	422
2	Advantageous crystalline–amorphous phase boundary for enhanced electrochemical water oxidation. <i>Energy and Environmental Science</i> , 2019, 12, 2443-2454.	30.8	315
3	Metal–Organic Framework Cathodes Based on a Vanadium Hexacyanoferrate Prussian Blue Analogue for High-Performance Aqueous Rechargeable Batteries. <i>Advanced Energy Materials</i> , 2017, 7, 1601491.	19.5	140
4	An Overview of the Recent Progress in the Synthesis and Applications of Carbon Nanotubes. <i>Journal of Carbon Research</i> , 2019, 5, 3.	2.7	128
5	Amorphous Nickel–Iron Borophosphate for a Robust and Efficient Oxygen Evolution Reaction. <i>Advanced Energy Materials</i> , 2021, 11, 2100624.	19.5	120
6	Parallelized Reaction Pathway and Stronger Internal Band Bending by Partial Oxidation of Metal Sulfide–Graphene Composites: Important Factors of Synergistic Oxygen Evolution Reaction Enhancement. <i>ACS Catalysis</i> , 2018, 8, 4091-4102.	11.2	116
7	Polythiophene-Wrapped Olivine $\text{NaFePO}_4$ as a Cathode for Na-Ion Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 15422-15429.	8.0	93
8	Study on the Electrochemical Reaction Mechanism of $\text{NiFe}_2\text{O}_4$ as a High-Performance Anode for Li-Ion Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 14833-14843.	8.0	92
9	Electrochemically activated cobalt nickel sulfide for an efficient oxygen evolution reaction: partial amorphization and phase control. <i>Journal of Materials Chemistry A</i> , 2019, 7, 3592-3602.	10.3	81
10	Investigation of the Na Intercalation Mechanism into Nanosized $\text{V}_2\text{O}_5/\text{C}$ Composite Cathode Material for Na-Ion Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 6032-6039.	8.0	79
11	Enhancing the performance of all-vanadium redox flow batteries by decorating carbon felt electrodes with $\text{SnO}_2$ nanoparticles. <i>Applied Energy</i> , 2018, 229, 910-921.	10.1	76
12	Facile Metal Coordination of Active Site Imprinted Nitrogen Doped Carbons for the Conservative Preparation of Non-Noble Metal Oxygen Reduction Electrocatalysts. <i>Advanced Energy Materials</i> , 2018, 8, 1701771.	19.5	73
13	Electrochemical Mechanism Investigation of $\text{Cu}_2\text{MoS}_4$ Hollow Nanospheres for Fast and Stable Sodium Ion Storage. <i>Advanced Functional Materials</i> , 2019, 29, 1807753.	14.9	72
14	$\text{NiCo}$ –N-doped carbon nanotubes based cathode catalyst for alkaline membrane fuel cell. <i>Renewable Energy</i> , 2020, 154, 508-516.	8.9	69
15	Honeycomb-layer structured $\text{Na}_3\text{Ni}_2\text{BiO}_6$ as a high voltage and long life cathode material for sodium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2017, 5, 1300-1310.	10.3	67
16	An open-framework iron fluoride and reduced graphene oxide nanocomposite as a high-capacity cathode material for Na-ion batteries. <i>Journal of Materials Chemistry A</i> , 2015, 3, 10258-10266.	10.3	65
17	Anionic Redox Activity as a Key Factor in the Performance Degradation of $\text{NaFeO}_2$ Cathodes for Sodium Ion Batteries. <i>Chemistry of Materials</i> , 2019, 31, 3644-3651.	6.7	64
18	Reduced graphene oxide as a stable and high-capacity cathode material for Na-ion batteries. <i>Scientific Reports</i> , 2017, 7, 40910.	3.3	49

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19	ZIF-67 derived nitrogen doped CNTs decorated with sulfur and Ni(OH) <sub>2</sub> as potential electrode material for high-performance supercapacitors. <i>Electrochimica Acta</i> , 2020, 364, 137147.	5.2	48
20	Boosting oxygen evolution reaction of transition metal layered double hydroxide by metalloid incorporation. <i>Nano Energy</i> , 2020, 75, 104945.	16.0	47
21	Dual-Phase Engineering of Nickel Boride-Hydroxide Nanoparticles toward High-Performance Water Oxidation Electrocatalysts. <i>Advanced Functional Materials</i> , 2020, 30, 2004330.	14.9	44
22	Hydrothermal synthesis of neodymium oxide nanoparticles and its nanocomposites with manganese oxide as electrode materials for supercapacitor application. <i>Journal of Alloys and Compounds</i> , 2020, 815, 152104.	5.5	43
23	Nanoporous nitrogen doped carbons with enhanced capacity for sodium ion battery anodes. <i>Energy Storage Materials</i> , 2020, 28, 101-111.	18.0	43
24	Elucidating the reaction mechanism of SnF <sub>2</sub> @C nanocomposite as a high-capacity anode material for Na-ion batteries. <i>Nano Energy</i> , 2017, 42, 106-114.	16.0	41
25	Kinetic and Electrochemical Reaction Mechanism Investigations of Rodlike CoMoO <sub>4</sub> Anode Material for Sodium-Ion Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 3843-3851.	8.0	38
26	Highly Selective O <sub>2</sub> Reduction to H <sub>2</sub> O <sub>2</sub> Catalyzed by Cobalt Nanoparticles Supported on Nitrogen-Doped Carbon in Alkaline Solution. <i>ACS Catalysis</i> , 2021, 11, 5035-5046.	11.2	36
27	Cobalt-doped pyrochlore-structured iron fluoride as a highly stable cathode material for lithium-ion batteries. <i>Electrochimica Acta</i> , 2017, 238, 49-55.	5.2	35
28	Superior shuttling of lithium and sodium ions in manganese-doped titania @ functionalized multiwall carbon nanotube anodes. <i>Nanoscale</i> , 2017, 9, 9859-9871.	5.6	33
29	Probing the Sodium Insertion/Extraction Mechanism in a Layered NaVO <sub>3</sub> Anode Material. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 18717-18725.	8.0	33
30	Determination of lithium diffusion coefficient and reaction mechanism into ultra-small nanocrystalline SnO <sub>2</sub> particles. <i>Journal of Power Sources</i> , 2019, 419, 229-236.	7.8	33
31	Stabilizing oxygen intermediates on redox-flexible active sites in multimetallic Ni-Fe-Al-Co layered double hydroxide anodes for excellent alkaline and seawater electrolysis. <i>Journal of Materials Chemistry A</i> , 2021, 9, 27332-27346.	10.3	33
32	Probing the Sodiation-Desodiation Reactions in Nano-sized Iron Fluoride Cathode. <i>Electrochimica Acta</i> , 2016, 191, 307-316.	5.2	30
33	Pulsed Laser Confinement of Single Atomic Catalysts on Carbon Nanotube Matrix for Enhanced Oxygen Evolution Reaction. <i>ACS Nano</i> , 2021, 15, 4416-4428.	14.6	29
34	Lithium intercalation mechanism into FeF <sub>3</sub> ·0.5H <sub>2</sub> O as a highly stable composite cathode material. <i>Scientific Reports</i> , 2017, 7, 42237.	3.3	24
35	Methane decomposition for hydrogen production over biomass fly ash-based CeO <sub>2</sub> nanowires promoted cobalt catalyst. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 105816.	6.7	24
36	Partial Dehydration in Hydrated Tungsten Oxide Nanoplates Leads to Excellent and Robust Bifunctional Oxygen Reduction and Hydrogen Evolution Reactions in Acidic Media. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 9507-9518.	6.7	23

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37	Effect of Co substitution on the structural, electrical, and magnetic properties of Bi <sub>0.9</sub> La <sub>0.1</sub> FeO <sub>3</sub> by sol-gel synthesis. International Journal of Minerals, Metallurgy and Materials, 2013, 20, 166-171.	4.9	21
38	Improving the sodium storage capacity of tunnel structured Na <sub>x</sub> Fe <sub>x</sub> Ti <sub>2-x</sub> O <sub>4</sub> (x = 1, 0.9 & 0.8) anode materials by tuning sodium deficiency. Journal of Power Sources, 2017, 366, 115-122.	7.8	21
39	Achieving high capacity and rate capability in layered lithium transition metal oxide cathodes for lithium-ion batteries. Journal of Power Sources, 2017, 360, 575-584.	7.8	20
40	Effect of the interfacial protective layer on the NaFe <sub>0.5</sub> Ni <sub>0.5</sub> O <sub>2</sub> cathode for rechargeable sodium-ion batteries. Journal of Materials Chemistry A, 2020, 8, 13964-13970.	10.3	19
41	Photo-electrochemical water splitting through graphene-based ZnS composites for H <sub>2</sub> production. Journal of Electroanalytical Chemistry, 2021, 889, 115223.	3.8	19
42	Mn <sub>0.06</sub> Co <sub>2.94</sub> O <sub>4</sub> nano-architectures anchored on reduced graphene oxide as highly efficient hybrid electrodes for supercapacitors. Journal of Energy Storage, 2022, 50, 104298.	8.1	18
43	Facile synthesis and electrochemical study of a ternary hybrid PANI/GNP/MnO <sub>2</sub> as supercapacitor electrode material. Journal of Materials Science: Materials in Electronics, 2020, 31, 12455-12466.	2.2	17
44	Recent Advances in Enhanced Performance of Ni-Rich Cathode Materials for Li-ion Batteries: A Review. Energy Technology, 2022, 10, .	3.8	17
45	CNTs embedded in layered Zn-doped Co <sub>3</sub> O <sub>4</sub> nano-architectures as an efficient hybrid anode material for SIBs. Journal of Alloys and Compounds, 2021, 867, 158730.	5.5	15
46	Unveiling the mechanism of sodium ion storage for needle-shaped Zn <sub>x</sub> Co <sub>3-x</sub> O <sub>4</sub> nanosticks as anode materials. Nanoscale, 2019, 11, 1065-1073.	5.6	14
47	ZIF 67 derived Co-Sn composites with N-doped nanoporous carbon as anode material for Li-ion batteries. Materials Chemistry and Physics, 2021, 270, 124824.	4.0	14
48	Highly efficient tin fluoride nanocomposite with conductive carbon as a high performance anode for Li-ion batteries. Journal of Alloys and Compounds, 2022, 900, 163447.	5.5	14
49	Oxygen Evolution Reaction of Co-Mn-O Electrocatalyst Prepared by Solution Combustion Synthesis. Catalysts, 2019, 9, 564.	3.5	13
50	Elucidating the performance-limiting electrode for all-vanadium redox flow batteries through in-depth physical and electrochemical analyses. Journal of Industrial and Engineering Chemistry, 2019, 80, 450-460.	5.8	13
51	High-rate sodium insertion/extraction into silicon oxycarbide-reduced graphene oxide. New Journal of Chemistry, 2020, 44, 14035-14040.	2.8	12
52	Development and analysis of electric vehicle driving cycle for hilly urban areas. Transportation Research, Part D: Transport and Environment, 2021, 99, 103025.	6.8	12
53	Efficient magnetoelectric dispersion in Ni and Co co-doped BiFeO <sub>3</sub> multiferroics. Physica B: Condensed Matter, 2021, 602, 412572.	2.7	11
54	Electrochemical investigation of a novel quaternary composite based on dichalcogenides, reduced graphene oxide, and polyaniline as a high-performance electrode for hybrid supercapacitor applications. Journal of Alloys and Compounds, 2022, 909, 164854.	5.5	11

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55	A 4â€¦V Liâ€¦ion Battery using Allâ€¦spinelâ€¦Based Electrodes. ChemSusChem, 2018, 11, 2165-2170.	6.8	10
56	Entangled reduced graphene oxide nanosheets as an insertion anode with large interlayer spacing for high rate Na-ion batteries. Ceramics International, 2020, 46, 27711-27716.	4.8	10
57	NaFeSnO <sub>4</sub> : Tunnel structured anode material for rechargeable sodium-ion batteries. Electrochemistry Communications, 2020, 121, 106873.	4.7	10
58	A high voltage Li-ion full-cell battery with MnCo <sub>2</sub> O <sub>4</sub> /LiCoPO <sub>4</sub> electrodes. Ceramics International, 2020, 46, 26147-26155.	4.8	10
59	Electrochemical storage behavior of NiCo <sub>2</sub> O <sub>4</sub> nanoparticles anode with structural and morphological evolution in lithiumâ€¦ion and sodiumâ€¦ion batteries. International Journal of Energy Research, 2021, 45, 15036-15048.	4.5	10
60	Investigation of the Electrochemical Properties of Ni <sub>0.5</sub> Zn <sub>0.5</sub> Fe <sub>2</sub> O <sub>4</sub> as Binder-Based and Binder-Free Electrodes of Supercapacitors. Energies, 2021, 14, 3297.	3.1	10
61	Synergetic Effect of Binary ZnS:SnS Composites with Reduced Graphene Oxide and Carbon Nanotubes as Anodes for Sodium-Ion Batteries. ACS Applied Energy Materials, 2021, 4, 13868-13877.	5.1	10
62	Axial expansion of Ni-doped TiO <sub>2</sub> nanorods grown on carbon nanotubes for favourable lithium-ion intercalation. Chemical Engineering Journal, 2019, 375, 122021.	12.7	9
63	High-rate lithium storage and kinetic investigations of a cubic Mn <sub>2</sub> SnO <sub>4</sub> @Carbon nanotube composite anode. Journal of Alloys and Compounds, 2020, 823, 153789.	5.5	8
64	Facile Preparation of Fe <sub>3</sub> O <sub>4</sub> Nanoparticles/Reduced Graphene Oxide Composite as an Efficient Anode Material for Lithium-Ion Batteries. Coatings, 2021, 11, 836.	2.6	8
65	Ni-doped Co <sub>3</sub> O <sub>4</sub> spheres decorated on CNTs nest-like conductive framework as efficiently stable hybrid anode for Na-ion batteries. Ceramics International, 2021, 47, 27854-27862.	4.8	8
66	Electrochemical performance of Li <sup>+</sup> insertion/extraction in Ni-substituted ZnCo <sub>2</sub> O <sub>4</sub> as an emerging highly efficient anode material. RSC Advances, 2020, 10, 28550-28559.	3.6	7
67	Dual coating strategy of CoS <sub>2</sub> @Co@C toward fast insertion/extraction anode material for sodiumâ€¦ion batteries. International Journal of Energy Research, 2021, 45, 5283-5292.	4.5	7
68	Sulfurâ€¦doped molybdenum phosphide as fast dis/charging anode for Liâ€¦ion and Naâ€¦ion batteries. International Journal of Energy Research, 2022, 46, 8452-8463.	4.5	7
69	Transformation of diffusive to capacitive kinetics in nanoscale modified Co-TiO <sub>2</sub> @CNTs composites safeguarding steady reversible capacity as sodium-ion battery anode. Journal of Alloys and Compounds, 2022, 902, 163772.	5.5	7
70	Optical and dielectric modulus Study of PPy-DBSA/Y <sub>2</sub> O <sub>3</sub> composites. Journal of Materials Science: Materials in Electronics, 2020, 31, 22365-22374.	2.2	6
71	Preparation and oxidation of aluminum powders with surface alumina replaced by iron coating. Journal of Energetic Materials, 2022, 40, 243-257.	2.0	5
72	An Investigation of the Electrochemical Properties of CuCo <sub>2</sub> O <sub>4</sub> @NiCo <sub>2</sub> O <sub>4</sub> Composite as Binder-Free Electrodes of a Supercapacitor. Energies, 2021, 14, 3237.	3.1	5

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73	Evaluation of mobility range of charge carriers in Nd-substituted. <i>Ceramics International</i> , 2021, 47, 34314-34322.	4.8	5
74	Strategy to utilize amorphous phase of semiconductor toward excellent and reliable photochemical water splitting performance: Roles of interface dipole moment and reaction parallelization. <i>International Journal of Energy Research</i> , 2022, 46, 3674-3685.	4.5	5
75	Investigating the energy storage performance of the $\langle \text{ZnMn}_2\text{O}_4 \rangle$ anode for its potential application in lithium-ion batteries. <i>International Journal of Energy Research</i> , 2022, 46, 6444-6456.	4.5	5
76	In-situ formation of an efficient trimetallic ( $\langle \text{Cu} \rangle \langle \text{Zn} \rangle \langle \text{Ag} \rangle$ ) electrocatalyst for water oxidation. <i>International Journal of Energy Research</i> , 2021, 45, 2931-2944.	4.5	4
77	Investigation of dielectric relaxation behavior, electric modulus and a.c conductivity of low doped polyaniline cadmium oxide (PANI-CdO) nanocomposites. <i>Polymer Bulletin</i> , 2022, 79, 6581-6600.	3.3	4
78	Self-standing $\text{Co}_2.4\text{Sn}_0.6\text{O}_4$ nano rods as high performance anode materials for sodium-ion battery and investigation on its reaction mechanism. <i>Chemical Engineering Journal</i> , 2022, 439, 135791.	12.7	4
79	Electrochemical investigations of a high-capacity $\text{Na}_2\text{CrO}_4/\text{C}$ nanocomposite anode for sodium-ion batteries. <i>International Journal of Energy Research</i> , 0, , .	4.5	3
80	$\text{Co}_2\text{GeO}_4$ nanocomposites with reduced graphene oxide and carbon nanotubes as high-performance anodes for Na-ion batteries. <i>RSC Advances</i> , 2021, 11, 13004-13013.	3.6	3
81	Free-Standing Petal-Shaped Metallic 1T-Phase Molybdenum Sulfide Anchored on a Nitrogen-Doped Carbon Cloth for High Rate Na-Ion Batteries. <i>ACS Applied Energy Materials</i> , 2022, 5, 1106-1113.	5.1	3
82	Electrical Properties and Characteristics of Polypyrrole Cadmium Oxide (PPy-CdO) Nanocomposite Schottky Diodes. <i>Polymer Science - Series A</i> , 2020, 62, 543-549.	1.0	2
83	Highly Stable Zero-Stain $\text{Na}_2\text{MoO}_4/\text{C}$ Nanocomposite Anode for Long Life Na-Ion Batteries. <i>ACS Applied Energy Materials</i> , 2021, 4, 4638-4645.	5.1	1
84	Au/TiN nanostructure materials for energy storage applications. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 5810-5820.	2.2	0
85	Dielectric and impedance spectroscopic analysis of $\text{Sn}_{1-x}\text{Zr}_x\text{O}_2$ ferromagnetically-like behavior semiconductors. <i>Journal of Magnetism and Magnetic Materials</i> , 2021, 537, 168227.	2.3	0
86	Development of Electromagnetic Shielding Material from Conductive Blends of Polyaniline/Polystyrene-isoprene-styrene Copolymer. <i>ChemistrySelect</i> , 2021, 6, 12455-12460.	1.5	0
87	Metal oxide-carbon composite electrode materials for rechargeable batteries. , 2022, , 237-254.		0