

# Syed Shoaib Ahmad Shah

## List of Publications by Year in descending order

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97  
papers

4,502  
citations

94269

37  
h-index

118652

62  
g-index

98  
all docs

98  
docs citations

98  
times ranked

3530  
citing authors

#	ARTICLE	IF	CITATIONS
1	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.	5.2	242
2	Recent developments in metal phosphide and sulfide electrocatalysts for oxygen evolution reaction. <i>Chinese Journal of Catalysis</i> , 2018, 39, 1575-1593.	6.9	205
3	Recent advances on oxygen reduction electrocatalysis: Correlating the characteristic properties of metal organic frameworks and the derived nanomaterials. <i>Applied Catalysis B: Environmental</i> , 2020, 268, 118570.	10.8	147
4	Recent Advances in Medicinal Chemistry of Sulfonamides. Rational Design as Anti-Tumoral, Anti-Bacterial and Anti-Inflammatory Agents. <i>Mini-Reviews in Medicinal Chemistry</i> , 2013, 13, 70-86.	1.1	145
5	Surface induced growth of ZIF-67 at Co-layered double hydroxide: Removal of methylene blue and methyl orange from water. <i>Applied Clay Science</i> , 2020, 190, 105564.	2.6	134
6	Kinetically controlled synthesis of MOF nanostructures: single-holed hollow core-shell ZnCoS@Co <sub>9</sub> S <sub>8</sub> /NC for ultra-high performance lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2018, 6, 14083-14090.	5.2	126
7	An Efficient Anti-poisoning Catalyst against SO <sub>x</sub> , NO <sub>x</sub> , and PO <sub>x</sub> : P, N-doped Carbon for Oxygen Reduction in Acidic Media. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 15101-15106.	7.2	122
8	Achieving high-energy density and superior cyclic stability in flexible and lightweight pseudocapacitor through synergic effects of binder-free CoGa <sub>2</sub> O <sub>4</sub> 2D-hexagonal nanoplates. <i>Nano Energy</i> , 2020, 77, 105276.	8.2	118
9	Mesoporous manganese-selenide microflowers with enhanced electrochemical performance as a flexible symmetric 1.8 V supercapacitor. <i>Chemical Engineering Journal</i> , 2020, 382, 122814.	6.6	108
10	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.	1.7	108
11	Charge storage in binder-free 2D-hexagonal CoMoO <sub>4</sub> nanosheets as a redox active material for pseudocapacitors. <i>Ceramics International</i> , 2021, 47, 8659-8667.	2.3	99
12	Monodispersed Co in Mesoporous Polyhedrons: Fine-tuning of ZIF-8 Structure with Enhanced Oxygen Reduction Activity. <i>Electrochimica Acta</i> , 2017, 251, 498-504.	2.6	91
13	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.	2.3	90
14	Metal-Organic Framework-Based Electrocatalysts for CO <sub>2</sub> Reduction. <i>Small Structures</i> , 2022, 3, 2100090.	6.9	90
15	Effect of metal atom in zeolitic imidazolate frameworks (ZIF-8 & 67) for removal of Pb <sup>2+</sup> & Hg <sup>2+</sup> from water. <i>Food and Chemical Toxicology</i> , 2021, 149, 112008.	1.8	86
16	Self-standing FeCo Prussian blue analogue derived FeCo/C and FeCoP/C nanosheet arrays for cost-effective electrocatalytic water splitting. <i>Electrochimica Acta</i> , 2019, 302, 45-55.	2.6	80
17	Exploring Fe-N for Peroxide Reduction: Template-Free Synthesis of Fe-N Traumatized Mesoporous Carbon Nanotubes as an ORR Catalyst in Acidic and Alkaline Solutions. <i>Chemistry - A European Journal</i> , 2018, 24, 10630-10635.	1.7	79
18	Tellurium Triggered Formation of Te/Fe-NiOOH Nanocubes as an Efficient Bifunctional Electrocatalyst for Overall Water Splitting. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 10972-10978.	4.0	76

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19	The Emergence of 2D MXenes Based Zn-Ion Batteries: Recent Development and Prospects. <i>Small</i> , 2022, 18, .	5.2	76
20	Synthesis and nano-engineering of MXenes for energy conversion and storage applications: Recent advances and perspectives. <i>Coordination Chemistry Reviews</i> , 2022, 454, 214339.	9.5	71
21	Single-atom catalysts for next-generation rechargeable batteries and fuel cells. <i>Energy Storage Materials</i> , 2022, 45, 301-322.	9.5	67
22	Synthesis, characterization and applications of silylation based grafted bentonites for the removal of Sudan dyes: Isothermal, kinetic and thermodynamic studies. <i>Microporous and Mesoporous Materials</i> , 2020, 291, 109697.	2.2	65
23	Development of Mn-PBA on GO sheets for adsorptive removal of ciprofloxacin from water: Kinetics, isothermal, thermodynamic and mechanistic studies. <i>Materials Chemistry and Physics</i> , 2020, 245, 122737.	2.0	62
24	Distinctive flower-like CoNi <sub>2</sub> S <sub>4</sub> nanoneedle arrays (CNS-NAs) for superior supercapacitor electrode performances. <i>Ceramics International</i> , 2020, 46, 25942-25948.	2.3	62
25	2D MXene Materials for Sodium Ion Batteries: A review on Energy Storage. <i>Journal of Energy Storage</i> , 2021, 37, 102478.	3.9	62
26	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 &amp; Interfaces</i> , 2021, 13, 23191-23200.	4.0	57
27	The nexus of industrialization, GDP per capita and CO <sub>2</sub> emission in China. <i>Environmental Technology and Innovation</i> , 2021, 23, 101674.	3.0	57
28	2D V <sub>2</sub> O <sub>5</sub> nanoflakes as a binder-free electrode material for high-performance pseudocapacitor. <i>Ceramics International</i> , 2021, 47, 25152-25157.	2.3	52
29	Synthesis and Biological Activities of Organotin(IV) Complexes as Antitumoral and Antimicrobial Agents. A Review. <i>Mini-Reviews in Medicinal Chemistry</i> , 2015, 15, 406-426.	1.1	51
30	Role of P-doping in Antipoisoning: Efficient MOF-Derived 3D Hierarchical Architectures for the Oxygen Reduction Reaction. <i>Journal of Physical Chemistry C</i> , 2019, 123, 16796-16803.	1.5	50
31	Design and synthesis of conductive carbon polyhedrons enriched with Mn-Oxide active-centres for oxygen reduction reaction. <i>Electrochimica Acta</i> , 2018, 272, 169-175.	2.6	47
32	Fabrication of Periodic Mesoporous Organo Silicate (PMOS) composites of Ag and ZnO: Photo-catalytic degradation of methylene blue and methyl orange. <i>Inorganic Chemistry Communication</i> , 2021, 123, 108357.	1.8	46
33	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.	2.6	45
34	High-performance flexible hybrid-supercapacitor enabled by pairing binder-free ultrathin Ni-Co nanosheets and metal-organic framework derived N-doped carbon nanosheets. <i>Electrochimica Acta</i> , 2020, 349, 136384.	2.6	45
35	Metallic nanoparticles for catalytic reduction of toxic hexavalent chromium from aqueous medium: A state-of-the-art review. <i>Science of the Total Environment</i> , 2022, 829, 154475.	3.9	45
36	Enhancing by nano-engineering: Hierarchical architectures as oxygen reduction/ evolution reactions for zinc-air batteries. <i>Journal of Power Sources</i> , 2019, 438, 226919.	4.0	44

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37	Synthetic Routes of Sulfonamide Derivatives: A Brief Review. <i>Mini-Reviews in Organic Chemistry</i> , 2013, 10, 160-170.	0.6	44
38	A metal free electrocatalyst for high-performance zinc-air battery applications with good resistance towards poisoning species. <i>Carbon</i> , 2020, 164, 12-18.	5.4	40
39	Single-atom catalysis for zinc-air/O <sub>2</sub> batteries, water electrolyzers and fuel cells applications. <i>Energy Storage Materials</i> , 2022, 45, 504-540.	9.5	39
40	Photo-Fenton activated C <sub>3</sub> N <sub>4</sub> /AgO <sub>y</sub> @Co <sub>1-x</sub> Bi <sub>0.1-y</sub> O <sub>7</sub> dual s-scheme heterojunction towards degradation of organic pollutants. <i>Optical Materials</i> , 2022, 126, 112199.	1.7	38
41	Design and Fabrication of Highly Porous 2D Bimetallic Sulfide ZnS/FeS Composite Nanosheets as an Advanced Negative Electrode Material for Supercapacitors. <i>Energy &amp; Fuels</i> , 2021, 35, 15185-15191.	2.5	37
42	An overview on the progress and development on metals/non-metal catalyzed cyanation reactions. <i>Inorganica Chimica Acta</i> , 2018, 469, 408-423.	1.2	36
43	Nano-engineered directed growth of Mn <sub>3</sub> O <sub>4</sub> quasi-nanocubes on N-doped polyhedrons: Efficient electrocatalyst for oxygen reduction reaction. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 12903-12910.	3.8	36
44	Strategic combination of metal-organic frameworks and C <sub>3</sub> N <sub>4</sub> for expeditious photocatalytic degradation of dye pollutants. <i>Environmental Science and Pollution Research</i> , 2022, 29, 35300-35313.	2.7	36
45	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.	3.9	34
46	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> , 2023, 103, 4841-4856.	1.8	34
47	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.	1.2	34
48	FeCo-N <sub>x</sub> 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.	1.9	33
49	Highly active electrocatalysis of hydrogen evolution reaction in alkaline medium by Ni-P alloy: A capacitance-activity relationship. <i>Journal of Energy Chemistry</i> , 2017, 26, 1245-1251.	7.1	32
50	Recent advances in medicinal chemistry of sulfonamides. Rational design as anti-tumoral, anti-bacterial and anti-inflammatory agents. <i>Mini-Reviews in Medicinal Chemistry</i> , 2013, 13, 70-86.	1.1	32
51	Electron penetration from metal core to metal species attached skin in nitrogen-doped core-shell catalyst for enhancing oxygen evolution reaction. <i>Electrochimica Acta</i> , 2019, 327, 134939.	2.6	31
52	Efficient removal of norfloxacin by MOF@GO composite: isothermal, kinetic, statistical, and mechanistic study. <i>Toxin Reviews</i> , 2021, 40, 915-927.	1.5	31
53	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.	5.0	31
54	Nanoscale ZrRGOCuFe layered double hydroxide composites for enhanced photocatalytic degradation of dye contaminant. <i>Materials Science in Semiconductor Processing</i> , 2021, 128, 105748.	1.9	31

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55	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.	3.8	31
56	Inert $V_2O_3$ oxide promotes the electrocatalytic activity of Ni metal for alkaline hydrogen evolution. <i>Chemical Communications</i> , 2019, 55, 3290-3293.	2.2	30
57	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.	3.8	30
58	Synthesis of porous secondary metal-doped MOFs for removal of Rhodamine B from water: Role of secondary metal on efficiency and kinetics. <i>Surfaces and Interfaces</i> , 2021, 25, 101261.	1.5	29
59	Decoration of cobalt/iron oxide nanoparticles on N-doped carbon nanosheets: Electrochemical performances for lithium-ion batteries. <i>Journal of Applied Electrochemistry</i> , 2019, 49, 433-442.	1.5	28
60	An Efficient Anti-poisoning Catalyst against $SO_x$ , $NO_x$ , and $PO_x$ : P, N-Doped Carbon for Oxygen Reduction in Acidic Media. <i>Angewandte Chemie</i> , 2018, 130, 15321-15326.	1.6	27
61	Synthesis and spectroscopic characterization of medicinal azo derivatives and metal complexes of Indandion. <i>Journal of Molecular Structure</i> , 2019, 1198, 126885.	1.8	27
62	Synthesis and characterization of water stable polymeric metallo organic composite (PMOC) for the removal of arsenic and lead from brackish water. <i>Toxin Reviews</i> , 2022, 41, 577-587.	1.5	27
63	Synthesis of nanoadsorbent entailed mesoporous organosilica for decontamination of methylene blue and methyl orange from water. <i>International Journal of Environmental Analytical Chemistry</i> , 2023, 103, 8799-8812.	1.8	26
64	Metal-Organic Frameworks Derived Electrocatalysts for Oxygen and Carbon Dioxide Reduction Reaction. <i>Chemical Record</i> , 2022, 22, e202100329.	2.9	26
65	Identification of Catalytic Active Sites for Durable Proton Exchange Membrane Fuel Cell: Catalytic Degradation and Poisoning Perspectives. <i>Small</i> , 2022, 18, e2106279.	5.2	25
66	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.	6.6	25
67	Improving the electrocatalytic activity for hydrogen evolution reaction by lowering the electrochemical impedance of $RuO_2/Ni-P$ . <i>Electrochimica Acta</i> , 2018, 260, 358-364.	2.6	24
68	Quality assessment of the noncarbonated-bottled drinking water: comparison of their treatment techniques. <i>International Journal of Environmental Analytical Chemistry</i> , 2022, 102, 8195-8206.	1.8	24
69	Modulating the microenvironment structure of single Zn atom: $ZnN_4P/C$ active site for boosted oxygen reduction reaction. <i>Chinese Journal of Catalysis</i> , 2022, 43, 2193-2201.	6.9	23
70	Nanostructure Engineering of Metal-Organic Derived Frameworks: Cobalt Phosphide Embedded in Carbon Nanotubes as an Efficient ORR Catalyst. <i>Molecules</i> , 2021, 26, 6672.	1.7	22
71	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.	1.3	21
72	Natural Products; Pharmacological Importance of Family Cucurbitaceae: A Brief Review. <i>Mini-Reviews in Medicinal Chemistry</i> , 2014, 14, 694-705.	1.1	21

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73	DNA Binding Mode of Transition Metal Complexes, A Relationship to Tumor Cell Toxicity. <i>Current Medicinal Chemistry</i> , 2014, 21, 3081-3094.	1.2	19
74	High-performance flexible supercapatteries enabled by binder-free two-dimensional mesoporous ultrathin nickel-ferrite nanosheets. <i>Materials Chemistry Frontiers</i> , 2021, 5, 3436-3447.	3.2	18
75	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.	1.7	18
76	Nano-Metal Organic Frame Work an Excellent Tool for Biomedical Imaging. <i>Current Medical Imaging</i> , 2018, 14, 669-674.	0.4	18
77	Energy storage properties of hydrothermally processed ultrathin 2D binder-free ZnCo <sub>2</sub> O <sub>4</sub> nanosheets. <i>Nanotechnology</i> , 2021, 32, 385402.	1.3	17
78	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.	1.3	17
79	Metal organic frameworks for efficient catalytic conversion of CO <sub>2</sub> and CO into applied products. <i>Molecular Catalysis</i> , 2022, 517, 112055.	1.0	17
80	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.	2.5	15
81	Salt-assisted gas-liquid interfacial fluorine doping: Metal-free defect-induced electrocatalyst for oxygen reduction reaction. <i>Molecular Catalysis</i> , 2021, 514, 111878.	1.0	14
82	Recent Advances in Synthesis and Applications of Single-Atom Catalysts for Rechargeable Batteries. <i>Chemical Record</i> , 2022, 22, .	2.9	14
83	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.	2.6	13
84	Synthetic Thioamide, Benzimidazole, Quinolone and Derivatives with Carboxylic Acid and Ester Moieties: A Strategy in the Design of Antituberculosis Agents. <i>Current Medicinal Chemistry</i> , 2014, 21, 911-931.	1.2	13
85	Recent Advances in Medicinal Chemistry of Sulfonamides. Rational Design as Anti-Tumoral, Anti-Bacterial and Anti-Inflammatory Agents. <i>Mini-Reviews in Medicinal Chemistry</i> , 2012, 13, 70-86.	1.1	13
86	A new insight into the effect of scan rate and mass transport from Pt rotating disk electrode on the electrochemical oxidation process of methanol. <i>Materials Letters</i> , 2020, 260, 126950.	1.3	12
87	Facile synthesis of ceria-based composite oxide materials by combustion for high-performance solid oxide fuel cells. <i>Ceramics International</i> , 2021, 47, 22035-22041.	2.3	8
88	Synthesis of Sulfonamides, Metal Complexes and the Study of In vitro Biological Activities. <i>Current Bioactive Compounds</i> , 2014, 9, 211-220.	0.2	8
89	Optimizing MOF electrocatalysis by metal sequence coding. <i>Chem Catalysis</i> , 2022, 2, 3-5.	2.9	7
90	Carbon dots-induced carbon-coated Ni and Mo <sub>2</sub> N nanosheets for efficient hydrogen production. <i>Electrochimica Acta</i> , 2022, 424, 140671.	2.6	6

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91	Water-stable metal-organic framework for environmental remediation. , 2021, , 585-621.		3
92	Esters of Quinoxaline 1,4-Di-oxide with Cytotoxic Activity on Tumor Cell Lines Based on NCI-60 Panel. Iranian Journal of Pharmaceutical Research, 2017, 16, 953-965.	0.3	3
93	Metal-Organic Framework-Derived Catalysts for Zn-Air Batteries. , 2020, , 1-15.		2
94	Functional crystalline porous materials. , 2023, , 336-354.		1
95	Modulating the Electronic Structure of Zinc Single Atom Catalyst by P/N Coordination and Co <sub>2</sub> p Supports for Efficient Oxygen Reduction in Zn-Air Battery. SSRN Electronic Journal, 0, , .	0.4	1
96	Metal-Organic Framework-Derived Catalysts for Zn-Air Batteries. , 2021, , 2475-2489.		0
97	Metal Oxides for the Electrocatalytic Reduction of Carbon Dioxide Active Sites, Composites, Interface and Defect Engineering Strategies. SSRN Electronic Journal, 0, , .	0.4	0