

# Saiful Islam

## List of Publications by Year in descending order

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86  
papers

3,831  
citations

172457

29  
h-index

133252

59  
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91  
all docs

91  
docs citations

91  
times ranked

3410  
citing authors

#	ARTICLE	IF	CITATIONS
1	Electrochemical Zinc Intercalation in Lithium Vanadium Oxide: A High-Capacity Zinc-Ion Battery Cathode. <i>Chemistry of Materials</i> , 2017, 29, 1684-1694.	6.7	479
2	Manganese and Vanadium Oxide Cathodes for Aqueous Rechargeable Zinc-Ion Batteries: A Focused View on Performance, Mechanism, and Developments. <i>ACS Energy Letters</i> , 2020, 5, 2376-2400.	17.4	303
3	Facile synthesis and the exploration of the zinc storage mechanism of $\text{V}^{2+}$ - $\text{MnO}_2$ nanorods with exposed (101) planes as a novel cathode material for high performance eco-friendly zinc-ion batteries. <i>Journal of Materials Chemistry A</i> , 2017, 5, 23299-23309.	10.3	297
4	Structural transformation and electrochemical study of layered $\text{MnO}_2$ in rechargeable aqueous zinc-ion battery. <i>Electrochimica Acta</i> , 2018, 276, 1-11.	5.2	220
5	The dominant role of $\text{Mn}^{2+}$ additive on the electrochemical reaction in $\text{ZnMn}_2\text{O}_4$ cathode for aqueous zinc-ion batteries. <i>Energy Storage Materials</i> , 2020, 28, 407-417.	18.0	175
6	Aqueous Magnesium Zinc Hybrid Battery: An Advanced High-Voltage and High-Energy $\text{MgMn}_2\text{O}_4$ Cathode. <i>ACS Energy Letters</i> , 2018, 3, 1998-2004.	17.4	159
7	Investigation of MPPT Techniques Under Uniform and Non-Uniform Solar Irradiation Condition—A Retrospection. <i>IEEE Access</i> , 2020, 8, 127368-127392.	4.2	146
8	A high surface area tunnel-type $\text{V}^{2+}$ - $\text{MnO}_2$ nanorod cathode by a simple solvent-free synthesis for rechargeable aqueous zinc-ion batteries. <i>Chemical Physics Letters</i> , 2016, 650, 64-68.	2.6	142
9	Ambient redox synthesis of vanadium-doped manganese dioxide nanoparticles and their enhanced zinc storage properties. <i>Applied Surface Science</i> , 2017, 404, 435-442.	6.1	123
10	$\text{K}^+$ intercalated $\text{V}_2\text{O}_5$ nanorods with exposed facets as advanced cathodes for high energy and high rate zinc-ion batteries. <i>Journal of Materials Chemistry A</i> , 2019, 7, 20335-20347.	10.3	116
11	Carbon-coated manganese dioxide nanoparticles and their enhanced electrochemical properties for zinc-ion battery applications. <i>Journal of Energy Chemistry</i> , 2017, 26, 815-819.	12.9	112
12	In Situ Oriented Mn Deficient $\text{ZnMn}_2\text{O}_4$ @C Nanoarchitecture for Durable Rechargeable Aqueous Zinc-Ion Batteries. <i>Advanced Science</i> , 2021, 8, 2002636.	11.2	90
13	Hydro-Geochemical Assessment of Groundwater Quality in Aseer Region, Saudi Arabia. <i>Water (Switzerland)</i> , 2018, 10, 1847.	2.7	62
14	Multiomics Analysis Reveals that GLS and GLS2 Differentially Modulate the Clinical Outcomes of Cancer. <i>Journal of Clinical Medicine</i> , 2019, 8, 355.	2.4	60
15	Agro-Nanotechnology as an Emerging Field: A Novel Sustainable Approach for Improving Plant Growth by Reducing Biotic Stress. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 2282.	2.5	56
16	Advances in the Methods for the Synthesis of Carbon Dots and Their Emerging Applications. <i>Polymers</i> , 2021, 13, 3190.	4.5	56
17	Biological Synthesis of Nanocatalysts and Their Applications. <i>Catalysts</i> , 2021, 11, 1494.	3.5	54
18	First principles calculations study of $\text{V}^{2+}$ - $\text{MnO}_2$ as a potential cathode for Al-ion battery application. <i>Journal of Materials Chemistry A</i> , 2019, 7, 26966-26974.	10.3	52

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19	A new rechargeable battery based on a zinc anode and a NaV <sub>6</sub> O <sub>15</sub> nanorod cathode. <i>Chemical Communications</i> , 2019, 55, 3793-3796.	4.1	51
20	Seaweed-Based Molecules and Their Potential Biological Activities: An Eco-Sustainable Cosmetics. <i>Molecules</i> , 2021, 26, 5313.	3.8	49
21	Pyrosynthesis of Na <sub>3</sub> V <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub> @C Cathodes for Safe and Low-Cost Aqueous Hybrid Batteries. <i>ChemSusChem</i> , 2018, 11, 2239-2247.	6.8	47
22	The Nature of the HTLV-1 Provirus in Naturally Infected Individuals Analyzed by the Viral DNA-Capture-Seq Approach. <i>Cell Reports</i> , 2019, 29, 724-735.e4.	6.4	46
23	The Processing of Calcium Rich Agricultural and Industrial Waste for Recovery of Calcium Carbonate and Calcium Oxide and Their Application for Environmental Cleanup: A Review. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 4212.	2.5	40
24	Swimming of microbes in blood flow of nano-bioconvective Williamson fluid. <i>Thermal Science and Engineering Progress</i> , 2021, 25, 101018.	2.7	39
25	Extremely low-loss, dispersion flattened porous-core photonic crystal fiber for terahertz regime. <i>Optical Engineering</i> , 2016, 55, 076117.	1.0	38
26	Cholera outbreaks (2012) in three districts of Nepal reveal clonal transmission of multi-drug resistant <i>Vibrio cholerae</i> O1. <i>BMC Infectious Diseases</i> , 2014, 14, 392.	2.9	36
27	Review of Online and Soft Computing Maximum Power Point Tracking Techniques under Non-Uniform Solar Irradiation Conditions. <i>Energies</i> , 2020, 13, 3256.	3.1	36
28	HIV-1 DNA-capture-seq is a useful tool for the comprehensive characterization of HIV-1 provirus. <i>Scientific Reports</i> , 2019, 9, 12326.	3.3	33
29	Recent Trends in Fascinating Applications of Nanotechnology in Allied Health Sciences. <i>Crystals</i> , 2022, 12, 39.	2.2	33
30	Numerical simulation of periodic MHD casson nanofluid flow through porous stretching sheet. <i>SN Applied Sciences</i> , 2021, 3, 1.	2.9	31
31	Identification of potential drug targets by subtractive genome analysis of <i>Bacillus anthracis</i> A0248: An in silico approach. <i>Computational Biology and Chemistry</i> , 2014, 52, 66-72.	2.3	29
32	Nanostructured Antibiotics and Their Emerging Medicinal Applications: An Overview of Nanoantibiotics. <i>Antibiotics</i> , 2022, 11, 708.	3.7	28
33	An experimental and first-principles study of the effect of B/N doping in TiO <sub>2</sub> thin films for visible light photo-catalysis. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2013, 254, 25-34.	3.9	27
34	Enriched Catalytic Activity of TiO <sub>2</sub> Nanoparticles Supported by Activated Carbon for Noxious Pollutant Elimination. <i>Nanomaterials</i> , 2021, 11, 2808.	4.1	25
35	Dynamics and mechanisms of clonal expansion of HIV-1-infected cells in a humanized mouse model. <i>Scientific Reports</i> , 2017, 7, 6913.	3.3	24
36	Quasi-solid-state zinc-ion battery based on $\delta$ -MnO <sub>2</sub> cathode with husk-like morphology. <i>Electrochimica Acta</i> , 2020, 345, 136189.	5.2	24

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37	Application of Green Synthesized MMT/Ag Nanocomposite for Removal of Methylene Blue from Aqueous Solution. <i>Water (Switzerland)</i> , 2021, 13, 3206.	2.7	23
38	Triggering the theoretical capacity of Na <sub>1.1V3O7.9</sub> nanorod cathode by polypyrrole coating for high-energy zinc-ion batteries. <i>Chemical Engineering Journal</i> , 2022, 446, 137069.	12.7	23
39	Transmission of Infectious <i>Vibrio cholerae</i> through Drinking Water among the Household Contacts of Cholera Patients (CHoBI7 Trial). <i>Frontiers in Microbiology</i> , 2016, 7, 1635.	3.5	22
40	3D human action analysis and recognition through GLAC descriptor on 2D motion and static posture images. <i>Multimedia Tools and Applications</i> , 2019, 78, 21085-21111.	3.9	22
41	Characteristics and Photovoltaic Applications of Au-Doped ZnO@Sm Nanoparticle Films. <i>Nanomaterials</i> , 2021, 11, 702.	4.1	20
42	Recent Advances in Methods for Recovery of Cenospheres from Fly Ash and Their Emerging Applications in Ceramics, Composites, Polymers and Environmental Cleanup. <i>Crystals</i> , 2021, 11, 1067.	2.2	19
43	Comparative Overview of the Performance of Cementitious and Non-Cementitious Nanomaterials in Mortar at Normal and Elevated Temperatures. <i>Nanomaterials</i> , 2021, 11, 911.	4.1	17
44	Repurposing existing therapeutics, its importance in oncology drug development: Kinases as a potential target. <i>British Journal of Clinical Pharmacology</i> , 2022, 88, 64-74.	2.4	17
45	Extraction of Value-Added Minerals from Various Agricultural, Industrial and Domestic Wastes. <i>Materials</i> , 2021, 14, 6333.	2.9	17
46	Cubic Silicon Carbide (3C@SiC) as a buffer layer for high efficiency and highly stable CdTe solar cell. <i>Optical Materials</i> , 2022, 123, 111911.	3.6	17
47	Selection of Heart-Biometric Templates for Fusion. <i>IEEE Access</i> , 2017, 5, 1753-1761.	4.2	15
48	Solution Processed Zn <sub>1-x</sub> Sm <sub>x</sub> Cu <sub>y</sub> O Nanorod Arrays for Dye Sensitized Solar Cells. <i>Nanomaterials</i> , 2021, 11, 1710.	4.1	15
49	Carbon-coated rhombohedral Li <sub>2</sub> NaV <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub> nanoflake cathode for Li-ion battery with excellent cycleability and rate capability. <i>Chemical Physics Letters</i> , 2017, 681, 44-49.	2.6	14
50	Identification and characterization of a novel enhancer in the HTLV-1 proviral genome. <i>Nature Communications</i> , 2022, 13, 2405.	12.8	14
51	Human action recognition using MHI and SHI based GLAC features and Collaborative Representation Classifier. <i>Journal of Intelligent and Fuzzy Systems</i> , 2019, 36, 3385-3401.	1.4	13
52	A systematic study on chemically deposited cadmium sulfide (CdS) thin film. <i>Journal of Theoretical and Applied Physics</i> , 2020, 14, 265-274.	1.4	13
53	Recent Advances on Properties and Utility of Nanomaterials Generated from Industrial and Biological Activities. <i>Crystals</i> , 2021, 11, 634.	2.2	13
54	A Short Review on the Utilization of Incense Sticks Ash as an Emerging and Overlooked Material for the Synthesis of Zeolites. <i>Crystals</i> , 2021, 11, 1255.	2.2	13

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55	Type three secretion system in non-toxicogenic <i>Vibrio cholerae</i> O1, Mexico. <i>Journal of Medical Microbiology</i> , 2014, 63, 1760-1762.	1.8	12
56	In search of best automated model: Explaining nanoparticle TEM image segmentation. <i>Ultramicroscopy</i> , 2022, 233, 113437.	1.9	12
57	Atrial fibrillation detection with multiparametric RR interval feature and machine learning technique. , 2017, , .		11
58	Potassium Supplying Capacity of Diverse Soils and K-Use Efficiency of Maize in South Asia. <i>Agronomy</i> , 2018, 8, 121.	3.0	11
59	Tillage and residue-management effects on productivity, profitability and soil properties in a rice-maize-mungbean system in the Eastern Gangetic Plains. <i>Journal of Crop Improvement</i> , 2019, 33, 683-710.	1.7	10
60	Multimiomics Investigation Revealing the Characteristics of HIV-1-Infected Cells In Vivo. <i>Cell Reports</i> , 2020, 32, 107887.	6.4	9
61	A widely distributed HIV-1 provirus elimination assay to evaluate latency-reversing agents in vitro. <i>Cell Reports Methods</i> , 2021, 1, 100122.	2.9	9
62	Modified 7-Chloro-11H-indeno[1,2-b]quinoxaline Heterocyclic System for Biological Activities. <i>Catalysts</i> , 2022, 12, 213.	3.5	9
63	Utilization of Incense Stick Ash in Hydrometallurgy Methods for Extracting Oxides of Fe, Al, Si, and Ca. <i>Materials</i> , 2022, 15, 1879.	2.9	9
64	In Situ Generation of Silicon Oxycarbide Phases on Reduced Graphene Oxide for Li-Ion Battery Anode. <i>ChemistrySelect</i> , 2016, 1, 6429-6433.	1.5	8
65	Improving Human Action Recognition Using Hierarchical Features And Multiple Classifier Ensembles. <i>Computer Journal</i> , 2021, 64, 1633-1655.	2.4	8
66	A machine learning logistic classifier approach for identifying the determinants of Under-5 child morbidity in Bangladesh. <i>Clinical Epidemiology and Global Health</i> , 2021, 12, 100812.	1.9	8
67	Evolution of Temperature Field around Underground Power Cable for Static and Cyclic Heating. <i>Energies</i> , 2021, 14, 8191.	3.1	8
68	Efficient Topology for DC-DC Boost Converter Based on Charge Pump Capacitor for Renewable Energy System. <i>International Journal of Photoenergy</i> , 2021, 2021, 1-13.	2.5	7
69	2D Personality of Multifunctional Carbon Nitrides towards Enhanced Catalytic Performance in Energy Storage and Remediation. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 3753.	2.5	6
70	Machine Learning Model for Nutrient Release from Biopolymers Coated Controlled-Release Fertilizer. <i>Agriculture (Switzerland)</i> , 2020, 10, 538.	3.1	5
71	Designing an all epitaxial 1,550 nm intra-cavity VCSEL using GaInAsN/AlGaInAs in the active region and AlGaAsSb/AlAsSb in top and bottom DBRs. <i>Optical and Quantum Electronics</i> , 2013, 45, 1199-1212.	3.3	4
72	Novel remote authentication protocol using heart-signals with chaos cryptography. , 2017, , .		4

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73	Sensing beyond Senses: An Overview of Outstanding Strides in Architecting Nanopolymer-Enabled Sensors for Biomedical Applications. <i>Polymers</i> , 2022, 14, 601.	4.5	4
74	Effect of stevia leaves ( <i>Stevia rebaudiana</i> Bertoni) on diabetes: A systematic review and meta-analysis of preclinical studies. <i>Food Science and Nutrition</i> , 2022, 10, 2868-2878.	3.4	4
75	Enhanced Plasmon Based Ag and Au Nanosystems and Their Improved Biomedical Impacts. <i>Crystals</i> , 2022, 12, 589.	2.2	4
76	Clonality of HIV-1 and HTLV-1 Infected Cells in Naturally Coinfected Individuals. <i>Journal of Infectious Diseases</i> , 2022, 225, 317-326.	4.0	3
77	Numerical Study of Joule Heating Effects on Microfluidics Device Reliability in Electrode Based Devices. <i>Materials</i> , 2021, 14, 5819.	2.9	2
78	A New High Capacity and Reversible Data Hiding Technique for Images. <i>Lecture Notes in Computer Science</i> , 2019, , 290-304.	1.3	2
79	Magnitudes of diseases in dogs vary among different levels of age, gender, breed, and season: A hospital-based, retrospective cross-sectional study. <i>Heliyon</i> , 2021, 7, e08287.	3.2	2
80	Enhancing the performance of 3D auto-correlation gradient features in depth action classification. <i>International Journal of Multimedia Information Retrieval</i> , 2022, 11, 61-76.	5.2	2
81	Optimization of Single Phase for Promoting Ferromagnetic Properties of $44\text{Fe}^{2+}28\text{Cr}^{2+}22\text{Co}^{2+}3\text{Mo}^{2+}1\text{Ti}^{2+}2\text{V}$ Permanent Magnet with Varying Co Concentration for Energy Storage. <i>Materials</i> , 2022, 15, 2344.	2.9	2
82	Modeling with strategies to control the adverse effects of global warming on marine ecosystems. <i>Modeling Earth Systems and Environment</i> , 2022, 8, 3073-3088.	3.4	1
83	Electrical and Optical Properties of Indium and Lead Co-Doped $\text{Cd}_{0.9}\text{Zn}_{0.1}\text{Te}$ . <i>Materials</i> , 2021, 14, 5825.	2.9	1
84	An Intra-cavity bottom emitting 1325 nm VCSEL using GaInAs / GaInP MQWs and AlGaInAs / InP DBRs for epitaxial fabrication. , 2012, , .		0
85	Effects of Reducing Active Radius on Modulation Performance and Relative Intensity Noise of a Strained $\text{In}_{0.2}\text{Ga}_{0.8}\text{As}/\text{GaAs}$ 80Å QW VCSEL. <i>Arabian Journal for Science and Engineering</i> , 2013, 38, 621-627.	1.1	0
86	Development of Self-Cured Sustainable Concrete Using Local Water-Entrainment Aggregates of Vesicular Basalt. <i>Sustainability</i> , 2021, 13, 6756.	3.2	0