

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
g-index

91
all docs

91
docs citations

91
times ranked

3410
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	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
3	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
4	In search of best automated model: Explaining nanoparticle TEM image segmentation. <i>Ultramicroscopy</i> , 2022, 233, 113437.	1.9	12
5	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
6	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
7	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
8	Recent Trends in Fascinating Applications of Nanotechnology in Allied Health Sciences. <i>Crystals</i> , 2022, 12, 39.	2.2	33
9	Modified 7-Chloro-1H-indeno[1,2-b]quinoxaline Heterocyclic System for Biological Activities. <i>Catalysts</i> , 2022, 12, 213.	3.5	9
10	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
11	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
12	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
13	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
14	Enhanced Plasmon Based Ag and Au Nanosystems and Their Improved Biomedical Impacts. <i>Crystals</i> , 2022, 12, 589.	2.2	4
15	Identification and characterization of a novel enhancer in the HTLV-1 proviral genome. <i>Nature Communications</i> , 2022, 13, 2405.	12.8	14
16	Nanostructured Antibiotics and Their Emerging Medicinal Applications: An Overview of Nanoantibiotics. <i>Antibiotics</i> , 2022, 11, 708.	3.7	28
17	Triggering the theoretical capacity of $\text{Na}_1.1\text{V}_3\text{O}_{7.9}$ nanorod cathode by polypyrrole coating for high-energy zinc-ion batteries. <i>Chemical Engineering Journal</i> , 2022, 446, 137069.	12.7	23
18	Improving Human Action Recognition Using Hierarchical Features And Multiple Classifier Ensembles. <i>Computer Journal</i> , 2021, 64, 1633-1655.	2.4	8

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19	Efficient Topology for DC-DC Boost Converter Based on Charge Pump Capacitor for Renewable Energy System. International Journal of Photoenergy, 2021, 2021, 1-13.	2.5	7
20	Numerical simulation of periodic MHD casson nanofluid flow through porous stretching sheet. SN Applied Sciences, 2021, 3, 1.	2.9	31
21	Agro-Nanotechnology as an Emerging Field: A Novel Sustainable Approach for Improving Plant Growth by Reducing Biotic Stress. Applied Sciences (Switzerland), 2021, 11, 2282.	2.5	56
22	Characteristics and Photovoltaic Applications of Au-Doped ZnO@Sm Nanoparticle Films. Nanomaterials, 2021, 11, 702.	4.1	20
23	Comparative Overview of the Performance of Cementitious and Non-Cementitious Nanomaterials in Mortar at Normal and Elevated Temperatures. Nanomaterials, 2021, 11, 911.	4.1	17
24	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. Applied Sciences (Switzerland), 2021, 11, 4212.	2.5	40
25	Development of Self-Cured Sustainable Concrete Using Local Water-Entrainment Aggregates of Vesicular Basalt. Sustainability, 2021, 13, 6756.	3.2	0
26	Recent Advances on Properties and Utility of Nanomaterials Generated from Industrial and Biological Activities. Crystals, 2021, 11, 634.	2.2	13
27	Solution Processed Zn _{1-x} Sm _x Cu _y O Nanorod Arrays for Dye Sensitized Solar Cells. Nanomaterials, 2021, 11, 1710.	4.1	15
28	Advances in the Methods for the Synthesis of Carbon Dots and Their Emerging Applications. Polymers, 2021, 13, 3190.	4.5	56
29	Seaweed-Based Molecules and Their Potential Biological Activities: An Eco-Sustainable Cosmetics. Molecules, 2021, 26, 5313.	3.8	49
30	Recent Advances in Methods for Recovery of Cenospheres from Fly Ash and Their Emerging Applications in Ceramics, Composites, Polymers and Environmental Cleanup. Crystals, 2021, 11, 1067.	2.2	19
31	Swimming of microbes in blood flow of nano-bioconvective Williamson fluid. Thermal Science and Engineering Progress, 2021, 25, 101018.	2.7	39
32	A machine learning logistic classifier approach for identifying the determinants of Under-5 child morbidity in Bangladesh. Clinical Epidemiology and Global Health, 2021, 12, 100812.	1.9	8
33	In Situ Oriented Mn Deficient ZnMn ₂ O ₄ @C Nanoarchitecture for Durable Rechargeable Aqueous Zinc-Ion Batteries. Advanced Science, 2021, 8, 2002636.	11.2	90
34	Enriched Catalytic Activity of TiO ₂ Nanoparticles Supported by Activated Carbon for Noxious Pollutant Elimination. Nanomaterials, 2021, 11, 2808.	4.1	25
35	Extraction of Value-Added Minerals from Various Agricultural, Industrial and Domestic Wastes. Materials, 2021, 14, 6333.	2.9	17
36	A Short Review on the Utilization of Incense Sticks Ash as an Emerging and Overlooked Material for the Synthesis of Zeolites. Crystals, 2021, 11, 1255.	2.2	13

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37	Numerical Study of Joule Heating Effects on Microfluidics Device Reliability in Electrode Based Devices. <i>Materials</i> , 2021, 14, 5819.	2.9	2
38	Electrical and Optical Properties of Indium and Lead Co-Doped Cd _{0.9} Zn _{0.1} Te. <i>Materials</i> , 2021, 14, 5825.	2.9	1
39	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
40	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
41	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
42	Biological Synthesis of Nanocatalysts and Their Applications. <i>Catalysts</i> , 2021, 11, 1494.	3.5	54
43	Evolution of Temperature Field around Underground Power Cable for Static and Cyclic Heating. <i>Energies</i> , 2021, 14, 8191.	3.1	8
44	The dominant role of Mn ²⁺ additive on the electrochemical reaction in ZnMn ₂ O ₄ cathode for aqueous zinc-ion batteries. <i>Energy Storage Materials</i> , 2020, 28, 407-417.	18.0	175
45	Machine Learning Model for Nutrient Release from Biopolymers Coated Controlled-Release Fertilizer. <i>Agriculture (Switzerland)</i> , 2020, 10, 538.	3.1	5
46	Multiomics Investigation Revealing the Characteristics of HIV-1-Infected Cells In vivo. <i>Cell Reports</i> , 2020, 32, 107887.	6.4	9
47	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
48	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
49	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
50	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
51	Quasi-solid-state zinc-ion battery based on \pm -MnO ₂ cathode with husk-like morphology. <i>Electrochimica Acta</i> , 2020, 345, 136189.	5.2	24
52	K ⁺ intercalated V ₂ 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
53	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
54	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

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55	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
56	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
57	Multimomics 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
58	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
59	A new rechargeable battery based on a zinc anode and a NaV ₆ O ₁₅ nanorod cathode. <i>Chemical Communications</i> , 2019, 55, 3793-3796.	4.1	51
60	First principles calculations study of Li-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
61	A New High Capacity and Reversible Data Hiding Technique for Images. <i>Lecture Notes in Computer Science</i> , 2019, , 290-304.	1.3	2
62	Structural transformation and electrochemical study of layered MnO ₂ in rechargeable aqueous zinc-ion battery. <i>Electrochimica Acta</i> , 2018, 276, 1-11.	5.2	220
63	Pyrosynthesis of Na ₃ V ₂ (PO ₄) ₃ @C Cathodes for Safe and Low-Cost Aqueous Hybrid Batteries. <i>ChemSusChem</i> , 2018, 11, 2239-2247.	6.8	47
64	Hydro-Geochemical Assessment of Groundwater Quality in Aseer Region, Saudi Arabia. <i>Water (Switzerland)</i> , 2018, 10, 1847.	2.7	62
65	Potassium Supplying Capacity of Diverse Soils and K-Use Efficiency of Maize in South Asia. <i>Agronomy</i> , 2018, 8, 121.	3.0	11
66	Aqueous Magnesium Zinc Hybrid Battery: An Advanced High-Voltage and High-Energy MgMn ₂ O ₄ Cathode. <i>ACS Energy Letters</i> , 2018, 3, 1998-2004.	17.4	159
67	Selection of Heart-Biometric Templates for Fusion. <i>IEEE Access</i> , 2017, 5, 1753-1761.	4.2	15
68	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
69	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
70	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
71	Novel remote authentication protocol using heart-signals with chaos cryptography. , 2017, , .		4
72	Carbon-coated rhombohedral Li ₂ NaV ₂ (PO ₄) ₃ nanoflake cathode for Li-ion battery with excellent cycleability and rate capability. <i>Chemical Physics Letters</i> , 2017, 681, 44-49.	2.6	14

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73	Atrial fibrillation detection with multiparametric RR interval feature and machine learning technique. , 2017, , .		11
74	Facile synthesis and the exploration of the zinc storage mechanism of Fe^{2+} - MnO_2 nanorods with exposed (101) planes as a novel cathode material for high performance eco-friendly zinc-ion batteries. Journal of Materials Chemistry A, 2017, 5, 23299-23309.	10.3	297
75	Dynamics and mechanisms of clonal expansion of HIV-1-infected cells in a humanized mouse model. Scientific Reports, 2017, 7, 6913.	3.3	24
76	Transmission of Infectious Vibrio cholerae through Drinking Water among the Household Contacts of Cholera Patients (CHOBI7 Trial). Frontiers in Microbiology, 2016, 7, 1635.	3.5	22
77	<i>In Situ</i> Generation of Silicon Oxycarbide Phases on Reduced Graphene Oxide for Li-Ion Battery Anode. ChemistrySelect, 2016, 1, 6429-6433.	1.5	8
78	Extremely low-loss, dispersion flattened porous-core photonic crystal fiber for terahertz regime. Optical Engineering, 2016, 55, 076117.	1.0	38
79	A high surface area tunnel-type Fe^{2+} - MnO_2 nanorod cathode by a simple solvent-free synthesis for rechargeable aqueous zinc-ion batteries. Chemical Physics Letters, 2016, 650, 64-68.	2.6	142
80	Cholera outbreaks (2012) in three districts of Nepal reveal clonal transmission of multi-drug resistant Vibrio cholerae O1. BMC Infectious Diseases, 2014, 14, 392.	2.9	36
81	Identification of potential drug targets by subtractive genome analysis of Bacillus anthracis A0248: An in silico approach. Computational Biology and Chemistry, 2014, 52, 66-72.	2.3	29
82	Type three secretion system in non-toxigenic Vibrio cholerae O1, Mexico. Journal of Medical Microbiology, 2014, 63, 1760-1762.	1.8	12
83	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. Arabian Journal for Science and Engineering, 2013, 38, 621-627.	1.1	0
84	Designing an all epitaxial 1,550Å nm intra-cavity VCSEL using $\text{GaInAsN}/\text{AlGaInAs}$ in the active region and $\text{AlGaAsSb}/\text{AlAsSb}$ in top and bottom DBRs. Optical and Quantum Electronics, 2013, 45, 1199-1212.	3.3	4
85	An experimental and first-principles study of the effect of B/N doping in TiO_2 thin films for visible light photo-catalysis. Journal of Photochemistry and Photobiology A: Chemistry, 2013, 254, 25-34.	3.9	27
86	An Intra-cavity bottom emitting 1325 nm VCSEL using $\text{GaInAs} / \text{GaInP}$ MQWs and $\text{AlGaInAs} / \text{InP}$ DBRs for epitaxial fabrication. , 2012, , .		0