

# Abul Kalam Azad

## List of Publications by Year in descending order

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Version: 2024-02-01

54  
papers

1,380  
citations

331670

21  
h-index

361022

35  
g-index

55  
all docs

55  
docs citations

55  
times ranked

1662  
citing authors

#	ARTICLE	IF	CITATIONS
1	Photocatalytic, anti-bacterial performance and development of 2,4-diaminophenylhydrazine chemical sensor probe based on ternary doped Ag <sub>2</sub> SrSnO <sub>4</sub> nanorods. New Journal of Chemistry, 2021, 45, 1634-1650.	2.8	5
2	Blood biochemical parameters for assessment of COVID-19 in diabetic and non-diabetic subjects: a cross-sectional study. International Journal of Environmental Health Research, 2021, , 1-14.	2.7	2
3	Photocatalytic performance, anti-bacterial activities and 3-chlorophenol sensor fabrication using MnAl <sub>2</sub> O <sub>4</sub> ·ZnAl <sub>2</sub> O <sub>4</sub> nanomaterials. Nanoscale Advances, 2021, 3, 5872-5889.	4.6	8
4	Human Aquaporins: Functional Diversity and Potential Roles in Infectious and Non-infectious Diseases. Frontiers in Genetics, 2021, 12, 654865.	2.3	55
5	Extracellular metabolites of endophytic fungi from <i>Azadirachta indica</i> inhibit multidrug-resistant bacteria and phytopathogens. Future Microbiology, 2021, 16, 557-576.	2.0	6
6	First record of <i>Colletotrichum fragariae</i> causing leaf spot on <i>Hopea odorata</i> in Bangladesh. New Disease Reports, 2021, 44, e12021.	0.8	2
7	Biodegradation of azo dyes and dyes present in textile wastewaters using <i>Bacillus</i> sp. az28, obtained from industrial effluents. Journal of the Bangladesh Academy of Sciences, 2021, 45, 117-122.	0.2	0
8	Major Insights in Dynamics of Host Response to SARS-CoV-2: Impacts and Challenges. Frontiers in Microbiology, 2021, 12, 637554.	3.5	8
9	Microbial Metabolites: The Emerging Hotspot of Antiviral Compounds as Potential Candidates to Avert Viral Pandemic Alike COVID-19. Frontiers in Molecular Biosciences, 2021, 8, 732256.	3.5	15
10	Genome-wide Characterization Deciphers Distinct Properties of Aquaporins in Six Phytophthora Species. Current Bioinformatics, 2021, 16, 880-898.	1.5	2
11	Evaluation of antioxidant and antimicrobial properties of dark red kidney bean ( <i>Phaseolus vulgaris</i> ) protein hydrolysates. Journal of Food Measurement and Characterization, 2020, 14, 303-313.	3.2	25
12	Photocatalysis, photoinduced enhanced anti-bacterial functions and development of a selective <i>m</i> -tolyl hydrazine sensor based on mixed Ag <sub>2</sub> NiMn <sub>2</sub> O <sub>4</sub> nanomaterials. RSC Advances, 2020, 10, 30603-30619.	3.6	8
13	Kinetics, detergent compatibility and feather-degrading capability of alkaline protease from <i>Bacillus subtilis</i> AKAL7 and <i>Exiguobacterium indicum</i> AKAL11 produced with fermentation of organic municipal solid wastes. Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering, 2020, 55, 1339-1348.	1.7	7
14	Antibacterial activity of graphene oxide nanosheet against multidrug resistant superbugs isolated from infected patients. Royal Society Open Science, 2020, 7, 200640.	2.4	69
15	Photocatalysis, enhanced anti-bacterial performance and discerning thiourea sensing of Ag <sub>2</sub> O·SnO <sub>2</sub> ·TiO <sub>2</sub> hetero-structure. Journal of Environmental Chemical Engineering, 2020, 8, 104051.	6.7	26
16	Enhanced visible light-mediated photocatalysis, antibacterial functions and fabrication of a 3-chlorophenol sensor based on ternary Ag <sub>2</sub> O·SrO·CaO. RSC Advances, 2020, 10, 11274-11291.	3.6	39
17	First report of <i>Colletotrichum viniferum</i> causing leaf spot of <i>Hopea odorata</i> in Bangladesh. New Disease Reports, 2020, 42, 19-19.	0.8	3
18	Biodegradation of reactive textile dye Novacron Super Black G by free cells of newly isolated <i>Alcaligenes faecalis</i> AZ26 and <i>Bacillus</i> spp obtained from textile effluents. Heliyon, 2019, 5, e02068.	3.2	53

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19	Efficient selective 4-aminophenol sensing and antibacterial activity of ternary Ag <sub>2</sub> O <sub>3</sub> •SnO <sub>2</sub> •Cr <sub>2</sub> O <sub>3</sub> nanoparticles. New Journal of Chemistry, 2019, 43, 10352-10365.	2.8	33
20	Identification of <i>AcrAB-TolC</i> Efflux Pump Genes and Detection of Mutation in Efflux Repressor <i>AcrR</i> from Omeprazole Responsive Multidrug-Resistant <i>Escherichia coli</i> Isolates Causing Urinary Tract Infections. Microbiology Insights, 2019, 12, 117863611988962.	2.0	24
21	Relationship among obesity, blood lipids and insulin resistance in Bangladeshi adults. Diabetes and Metabolic Syndrome: Clinical Research and Reviews, 2019, 13, 444-449.	3.6	8
22	Synthesis of Fe- or Ag-doped TiO <sub>2</sub> /MWCNT nanocomposite thin films and their visible-light-induced catalysis of dye degradation and antibacterial activity. Research on Chemical Intermediates, 2018, 44, 2667-2683.	2.7	47
23	Prediction of arsenic and antimony transporter major intrinsic proteins from the genomes of crop plants. International Journal of Biological Macromolecules, 2018, 107, 2630-2642.	7.5	14
24	Partial purification and characterization of serine protease produced through fermentation of organic municipal solid wastes by <i>Serratia marcescens</i> A3 and <i>Pseudomonas putida</i> A2. Journal of Genetic Engineering and Biotechnology, 2018, 16, 29-37.	3.3	22
25	Production and partial characterization of dehairing alkaline protease from <i>Bacillus subtilis</i> AKAL7 and <i>Exiguobacterium indicum</i> AKAL11 by using organic municipal solid wastes. Heliyon, 2018, 4, e00646.	3.2	55
26	Scale-up of protease production by <i>Serratia marcescens</i> using municipal solid wastes in the bioreactor and its partial purification and characterization. International Journal of Biosciences, 2018, 12, 99-109.	0.1	0
27	Structural study, photoluminescence and photocatalytic properties of La <sub>2</sub> O <sub>3</sub> •Fe <sub>3</sub> O <sub>4</sub> •ZnO, AgO•NiO•ZnO and La <sub>2</sub> O <sub>3</sub> •AgO•ZnO nanocomposites. Nano Structures Nano Objects, 2017, 10, 30-41.	3.5	62
28	Optimization of some fermentation conditions for the production of extracellular amylases by using <i>Chryseobacterium</i> and <i>Bacillus</i> isolates from organic kitchen wastes. Journal of Genetic Engineering and Biotechnology, 2017, 15, 59-68.	3.3	37
29	In silico identification and characterization of common epitope-based peptide vaccine for Nipah and Hendra viruses. Asian Pacific Journal of Tropical Medicine, 2017, 10, 529-538.	0.8	34
30	Computational Identification and Characterization of a Promiscuous T-Cell Epitope on the Extracellular Protein 85B of <i>Mycobacterium</i> spp. for Peptide-Based Subunit Vaccine Design. BioMed Research International, 2017, 2017, 1-14.	1.9	19
31	Plasmids for Amoxicillin and Ciprofloxacin Resistance in <i>Escherichia coli</i> Isolate Causing Urinary Tract Infection. Clinical Microbiology (Los Angeles, Calif ), 2017, 06, .	0.2	2
32	Computational Analysis of Damaging Single-Nucleotide Polymorphisms and Their Structural and Functional Impact on the Insulin Receptor. BioMed Research International, 2016, 2016, 1-11.	1.9	9
33	Production and Partial Characterization of Cellulase from <i>Pseudomonas</i> Isolates Obtained from Cow Dung and Municipal Solid Wastes. Bangladesh Journal of Microbiology, 2016, 30, 11-16.	0.3	3
34	Genome-Wide Characterization of Major Intrinsic Proteins in Four Grass Plants and Their Non-Aqua Transport Selectivity Profiles with Comparative Perspective. PLoS ONE, 2016, 11, e0157735.	2.5	46
35	Multidrug Resistance Phenotype and Plasmid Profiling of <i>Escherichia coli</i> Isolates Causing Urinary Tract Infections in North East Part of Bangladesh. British Microbiology Research Journal, 2016, 15, 1-11.	0.2	6
36	Spectroscopic Investigations, Anti-bacterial Activities and DNA-interactions of Metal Complexes (Cr(III), Zn(II), Ni(II)) Containing Phendione Ligand. Journal of Scientific Research, 2015, 7, 113-128.	0.3	1

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37	Photoluminescence, photocatalytic and antibacterial activities of CeO <sub>2</sub> -CuO-ZnO nanocomposite fabricated by co-precipitation method. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015, 149, 839-850.	3.9	52
38	Synthesis, characterization, PL properties, photocatalytic and antibacterial activities of nano multi-metal oxide NiO-CeO <sub>2</sub> -ZnO. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015, 136, 824-831.	3.9	78
39	Production of Microbial Lipids from Rice Straw Hydrolysates by <i>Lipomyces starkeyi</i> for Biodiesel Synthesis. <i>Journal of Microbial &amp; Biochemical Technology</i> , 2014, s8, .	0.2	7
40	Expression profiles of aquaporin homologues and petal movement during petal development in <i>Tulipa gesneriana</i> . <i>Physiologia Plantarum</i> , 2013, 148, 397-407.	5.2	10
41	Substitution of a single amino acid residue in the aromatic/arginine selectivity filter alters the transport profiles of tonoplast aquaporin homologs. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2012, 1818, 1-11.	2.6	57
42	Functional characterization and hyperosmotic regulation of aquaporin in <i>Synechocystis</i> sp. PCC 6803. <i>Plant Science</i> , 2011, 180, 375-382.	3.6	15
43	Molecular cloning and sequence and 3D models analysis of the Sec61 subunit of protein translocation complex from <i>Penicillium ochrochloron</i> . <i>BMB Reports</i> , 2011, 44, 719-724.	2.4	4
44	Envelope Proteins Pertain with Evolution and Adaptive Mechanism of the Novel Influenza A/H1N1 in Humans. <i>Journal of Microbiology and Biotechnology</i> , 2010, 20, 1500-1505.	2.1	1
45	Heterologous Expression of Tulip Petal Plasma Membrane Aquaporins in <i>Pichia pastoris</i> for Water Channel Analysis. <i>Applied and Environmental Microbiology</i> , 2009, 75, 2792-2797.	3.1	32
46	Intracellular energy depletion triggers programmed cell death during petal senescence in tulip. <i>Journal of Experimental Botany</i> , 2008, 59, 2085-2095.	4.8	84
47	Characterization of Four Plasma Membrane Aquaporins in Tulip Petals: A Putative Homolog is Regulated by Phosphorylation. <i>Plant and Cell Physiology</i> , 2008, 49, 1196-1208.	3.1	66
48	Temperature-dependent stomatal movement in tulip petals controls water transpiration during flower opening and closing. <i>Annals of Applied Biology</i> , 2007, 150, 81-87.	2.5	39
49	Production and Partial Characterization of Feather-degrading Keratinolytic Serine Protease from <i>Bacillus licheniformis</i> MZK-3. <i>Journal of Biological Sciences</i> , 2007, 7, 599-606.	0.3	28
50	Contamination of Coliforms in Different Paper Currency Notes of Bangladesh. <i>Pakistan Journal of Biological Sciences</i> , 2006, 9, 868-870.	0.5	7
51	Phosphorylation of Plasma Membrane Aquaporin Regulates Temperature-Dependent Opening of Tulip Petals. <i>Plant and Cell Physiology</i> , 2004, 45, 608-617.	3.1	114
52	Characterization of Protein Phosphatase 2A Acting on Phosphorylated Plasma Membrane Aquaporin of Tulip Petals. <i>Bioscience, Biotechnology and Biochemistry</i> , 2004, 68, 1170-1174.	1.3	20
53	Isolation, Screening and Characterization of Cellulase Producing Bacterial Isolates from Municipal Solid Wastes and Rice Straw Wastes. <i>Journal of Bioprocessing &amp; Biotechniques</i> , 0, , .	0.2	9
54	Short communication: Antibiotic resistance in Gram-negative bacteria isolated from street-vended foods in Bangladesh. , 0, , .		2