

# Abul Kalam Azad

## List of Publications by Year in descending order

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Version: 2024-02-01

53  
papers

1,380  
citations

331259

21  
h-index

360668

35  
g-index

55  
all docs

55  
docs citations

55  
times ranked

1662  
citing authors

#	ARTICLE	IF	CITATIONS
1	Phosphorylation of Plasma Membrane Aquaporin Regulates Temperature-Dependent Opening of Tulip Petals. <i>Plant and Cell Physiology</i> , 2004, 45, 608-617.	1.5	114
2	Intracellular energy depletion triggers programmed cell death during petal senescence in tulip. <i>Journal of Experimental Botany</i> , 2008, 59, 2085-2095.	2.4	84
3	Synthesis, characterization, PL properties, photocatalytic and antibacterial activities of nano multi-metal oxide NiOâ€¦CeO2â€¦ZnO. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015, 136, 824-831.	2.0	78
4	Antibacterial activity of graphene oxide nanosheet against multidrug resistant superbugs isolated from infected patients. <i>Royal Society Open Science</i> , 2020, 7, 200640.	1.1	69
5	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.	1.5	66
6	Structural study, photoluminescence and photocatalytic properties of La2O3 â€¦ Fe3O4 â€¦ ZnO, AgO â€¦ NiO â€¦ ZnO and La2O3 â€¦ AgO â€¦ ZnO nanocomposites. <i>Nano Structures Nano Objects</i> , 2017, 10, 30-41.	1.9	62
7	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.	1.4	57
8	Production and partial characterization of dehairing alkaline protease from <i>Bacillus</i> subsp. AKAL7 and <i>Exiguobacterium indicum</i> AKAL11 by using organic municipal solid wastes. <i>Heliyon</i> , 2018, 4, e00646.	1.4	55
9	Human Aquaporins: Functional Diversity and Potential Roles in Infectious and Non-infectious Diseases. <i>Frontiers in Genetics</i> , 2021, 12, 654865.	1.1	55
10	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. <i>Heliyon</i> , 2019, 5, e02068.	1.4	53
11	Photoluminescence, photocatalytic and antibacterial activities of CeO2â€CuOâ€ZnO nanocomposite fabricated by co-precipitation method. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015, 149, 839-850.	2.0	52
12	Synthesis of Fe- or Ag-doped TiO2â€MWCNT nanocomposite thin films and their visible-light-induced catalysis of dye degradation and antibacterial activity. <i>Research on Chemical Intermediates</i> , 2018, 44, 2667-2683.	1.3	47
13	Genome-Wide Characterization of Major Intrinsic Proteins in Four Grass Plants and Their Non-Aqua Transport Selectivity Profiles with Comparative Perspective. <i>PLoS ONE</i> , 2016, 11, e0157735.	1.1	46
14	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.	1.3	39
15	Enhanced visible light-mediated photocatalysis, antibacterial functions and fabrication of a 3-chlorophenol sensor based on ternary Ag <sub>2</sub> Oâ€SrOâ€CaO. <i>RSC Advances</i> , 2020, 10, 11274-11291.	1.7	39
16	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. <i>Journal of Genetic Engineering and Biotechnology</i> , 2017, 15, 59-68.	1.5	37
17	In silico identification and characterization of common epitope-based peptide vaccine for Nipah and Hendra viruses. <i>Asian Pacific Journal of Tropical Medicine</i> , 2017, 10, 529-538.	0.4	34
18	Efficient selective 4-aminophenol sensing and antibacterial activity of ternary Ag <sub>2</sub> O <sub>3</sub> â€SnO <sub>2</sub> â€Cr <sub>2</sub> O <sub>3</sub> nanoparticles. <i>New Journal of Chemistry</i> , 2019, 43, 10352-10365.	1.4	33

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19	Heterologous Expression of Tulip Petal Plasma Membrane Aquaporins in <i>Pichia pastoris</i> for Water Channel Analysis. Applied and Environmental Microbiology, 2009, 75, 2792-2797.	1.4	32
20	Production and Partial Characterization of Feather-degrading Keratinolytic Serine Protease from <i>Bacillus licheniformis</i> MZK-3. Journal of Biological Sciences, 2007, 7, 599-606.	0.1	28
21	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.	3.3	26
22	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.	1.6	25
23	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.	0.9	24
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.	1.5	22
25	Characterization of Protein Phosphatase 2A Acting on Phosphorylated Plasma Membrane Aquaporin of Tulip Petals. Bioscience, Biotechnology and Biochemistry, 2004, 68, 1170-1174.	0.6	20
26	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.	0.9	19
27	Functional characterization and hyperosmotic regulation of aquaporin in <i>Synechocystis</i> sp. PCC 6803. Plant Science, 2011, 180, 375-382.	1.7	15
28	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.	1.6	15
29	Prediction of arsenic and antimony transporter major intrinsic proteins from the genomes of crop plants. International Journal of Biological Macromolecules, 2018, 107, 2630-2642.	3.6	14
30	Expression profiles of aquaporin homologues and petal movement during petal development in <i>Tulipa gesneriana</i> . Physiologia Plantarum, 2013, 148, 397-407.	2.6	10
31	Isolation, Screening and Characterization of Cellulase Producing Bacterial Isolates from Municipal Solid Wastes and Rice Straw Wastes. Journal of Bioprocessing & Biotechniques, 0, , .	0.2	9
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.	0.9	9
33	Relationship among obesity, blood lipids and insulin resistance in Bangladeshi adults. Diabetes and Metabolic Syndrome: Clinical Research and Reviews, 2019, 13, 444-449.	1.8	8
34	Photocatalysis, photoinduced enhanced anti-bacterial functions and development of a selective <i>m</i> -tolyl hydrazine sensor based on mixed Ag <sub>2</sub> O-NiMn <sub>2</sub> O <sub>4</sub> nanomaterials. RSC Advances, 2020, 10, 30603-30619.	1.7	8
35	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.	2.2	8
36	Major Insights in Dynamics of Host Response to SARS-CoV-2: Impacts and Challenges. Frontiers in Microbiology, 2021, 12, 637554.	1.5	8

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37	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. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2020, 55, 1339-1348.	0.9	7
38	Contamination of Coliforms in Different Paper Currency Notes of Bangladesh. <i>Pakistan Journal of Biological Sciences</i> , 2006, 9, 868-870.	0.2	7
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	Extracellular metabolites of endophytic fungi from <i>Azadirachta indica</i> inhibit multidrug-resistant bacteria and phytopathogens. <i>Future Microbiology</i> , 2021, 16, 557-576.	1.0	6
41	Multidrug Resistance Phenotype and Plasmid Profiling of <i>Escherichia coli</i> Isolates Causing Urinary Tract Infections in North East Part of Bangladesh. <i>British Microbiology Research Journal</i> , 2016, 15, 1-11.	0.2	6
42	Photocatalytic, anti-bacterial performance and development of 2,4-diaminophenylhydrazine chemical sensor probe based on ternary doped Ag <sub>3</sub> SrSnO <sub>3</sub> nanorods. <i>New Journal of Chemistry</i> , 2021, 45, 1634-1650.	1.4	5
43	Molecular cloning and sequence and 3D models analysis of the Sec61 $\beta$ subunit of protein translocation complex from <i>Penicillium ochrochloron</i> . <i>BMB Reports</i> , 2011, 44, 719-724.	1.1	4
44	Production and Partial Characterization of Cellulase from <i>Pseudomonas</i> Isolates Obtained from Cow Dung and Municipal Solid Wastes. <i>Bangladesh Journal of Microbiology</i> , 2016, 30, 11-16.	0.2	3
45	First report of <i>Colletotrichum viniferum</i> causing leaf spot of <i>Hopea odorata</i> in Bangladesh. <i>New Disease Reports</i> , 2020, 42, 19-19.	0.4	3
46	Blood biochemical parameters for assessment of COVID-19 in diabetic and non-diabetic subjects: a cross-sectional study. <i>International Journal of Environmental Health Research</i> , 2021, , 1-14.	1.3	2
47	First record of <i>Colletotrichum fragariae</i> causing leaf spot on <i>Hopea odorata</i> in Bangladesh. <i>New Disease Reports</i> , 2021, 44, e12021.	0.4	2
48	Genome-wide Characterization Deciphers Distinct Properties of Aquaporins in Six <i>Phytophthora</i> Species. <i>Current Bioinformatics</i> , 2021, 16, 880-898.	0.7	2
49	Plasmids for Amoxicillin and Ciprofloxacin Resistance in <i>Escherichia coli</i> Isolate Causing Urinary Tract Infection. <i>Clinical Microbiology (Los Angeles, Calif)</i> , 2017, 06, .	0.2	2
50	Short communication: Antibiotic resistance in Gram-negative bacteria isolated from street-vended foods in Bangladesh. , 0, , .		2
51	Spectroscopic Investigations, Anti-bacterial Activities and DNA-interactions of Metal Complexes (Cr(III), Zn(II), Ni(II)) Containing Phendione Ligand. <i>Journal of Scientific Research</i> , 2015, 7, 113-128.	0.2	1
52	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.	0.9	1
53	Biodegradation of azo dyes and dyes present in textile wastewaters using <i>Bacillus</i> sp. az28, obtained from industrial effluents. <i>Journal of the Bangladesh Academy of Sciences</i> , 2021, 45, 117-122.	0.1	0