

Yusuf Akhter

List of Publications by Year in descending order

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Version: 2024-02-01

101
papers

2,101
citations

257450

24
h-index

289244

40
g-index

108
all docs

108
docs citations

108
times ranked

3107
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Synthesis of new chrysin derivatives with substantial antibiofilm activity. <i>Molecular Diversity</i> , 2022, 26, 137-156. | 3.9 | 3 |
| 2 | Molecular insights into the differential efflux mechanism of Rv1634 protein, a multidrug transporter of major facilitator superfamily in <i>Mycobacterium tuberculosis</i> . <i>Proteins: Structure, Function and Bioinformatics</i> , 2022, 90, 566-578. | 2.6 | 1 |
| 3 | Response to Comments on "Preliminary estimation of the basic reproduction number of novel coronavirus (2019-nCoV) in China, from 2019 to 2020: a data-driven analysis in the early phase of the outbreak". <i>International Journal of Infectious Diseases</i> , 2022, 115, 70-71. | 3.3 | 2 |
| 4 | A comparative study of microsatellites among crocodiles and development of genomic resources for the critically endangered Indian gharial. <i>Genetica</i> , 2022, 150, 67-75. | 1.1 | 3 |
| 5 | Performance-based evaluation and funding model for central universities in India: a preliminary assessment. <i>Quality in Higher Education</i> , 2022, 28, 380-397. | 1.1 | 1 |
| 6 | Evaluation of anticancer activity of N H/N-Me Aziridine derivatives as a potential poly (ADP-ribose) polymerase 1 inhibitor. <i>Journal of Molecular Structure</i> , 2022, 1258, 132689. | 3.6 | 3 |
| 7 | Simple sequence repeat insertion induced stability and potential "gain of function" in the proteins of extremophilic bacteria. <i>Extremophiles</i> , 2022, 26, 17. | 2.3 | 3 |
| 8 | A review on enzyme complexes of electron transport chain from <i>Mycobacterium tuberculosis</i> as promising drug targets. <i>International Journal of Biological Macromolecules</i> , 2022, 212, 474-494. | 7.5 | 8 |
| 9 | Identification of a stretch of four discontinuous amino acids involved in regulating kinase activity of IGF1R. <i>Journal of Cell Science</i> , 2022, 135, . | 2.0 | 3 |
| 10 | Vitexin alters <i>Staphylococcus aureus</i> surface hydrophobicity to obstruct biofilm formation. <i>Microbiological Research</i> , 2022, 263, 127126. | 5.3 | 21 |
| 11 | Taxonomic profiling and functional characterization of the healthy human oral bacterial microbiome from the north Indian urban sub-population. <i>Archives of Microbiology</i> , 2021, 203, 927-939. | 2.2 | 4 |
| 12 | Ornithine carbamoyltransferase from psychrophiles to thermophiles: structural evolution of catalytic fold to accommodate physiological diversity. <i>Extremophiles</i> , 2021, 25, 15-24. | 2.3 | 1 |
| 13 | Attenuation of <i>Pseudomonas aeruginosa</i> biofilm by thymoquinone: an individual and combinatorial study with tetrazine-capped silver nanoparticles and tryptophan. <i>Folia Microbiologica</i> , 2021, 66, 255-271. | 2.3 | 13 |
| 14 | p38 Mitogen-activated protein kinase modulates cisplatin resistance in Head and Neck Squamous Cell Carcinoma cells. <i>Archives of Oral Biology</i> , 2021, 122, 104981. | 1.8 | 11 |
| 15 | Statistical Modeling for the Prediction of Infectious Disease Dissemination With Special Reference to COVID-19 Spread. <i>Frontiers in Public Health</i> , 2021, 9, 645405. | 2.7 | 27 |
| 16 | Auxin transport mechanism of membrane transporter encoded by AEC gene of <i>Bacillus licheniformis</i> isolated from metagenome of Tapta Kund Hotspring of Uttarakhand, India. <i>International Journal of Biological Macromolecules</i> , 2021, 185, 277-286. | 7.5 | 5 |
| 17 | Computational approach towards the design of novel inhibitor against universal stress protein A to combat multidrug resistant uropathogenic <i>Escherichia coli</i> . <i>Journal of Molecular Structure</i> , 2021, 1238, 130379. | 3.6 | 6 |
| 18 | Response: Commentary: Statistical Modeling for the Prediction of Infectious Disease Dissemination With Special Reference to COVID-19 Spread. <i>Frontiers in Public Health</i> , 2021, 9, 783201. | 2.7 | 0 |

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|----|---|-----|-----------|
| 19 | Synthesis, quantum chemical study, AIM simulation, in silico ADMET profile analysis, molecular docking and antioxidant activity assessment of aminofuran derivatives. <i>Journal of Molecular Structure</i> , 2020, 1203, 127285. | 3.6 | 30 |
| 20 | Fungal P450 monooxygenases—the diversity in catalysis and their promising roles in biocontrol activity. <i>Applied Microbiology and Biotechnology</i> , 2020, 104, 989-999. | 3.6 | 21 |
| 21 | The anti-biofilm potential of triterpenoids isolated from <i>Sarcochlamys pulcherrima</i> (Roxb.) Gaud. <i>Microbial Pathogenesis</i> , 2020, 139, 103901. | 2.9 | 8 |
| 22 | Fungal acetyltransferases structures, mechanisms and inhibitors: A review. <i>International Journal of Biological Macromolecules</i> , 2020, 157, 626-640. | 7.5 | 6 |
| 23 | Analyzing structural differences between insulin receptor (IR) and IGF1R for designing small molecule allosteric inhibitors of IGF1R as novel anti-cancer agents. <i>Growth Hormone and IGF Research</i> , 2020, 55, 101343. | 1.1 | 5 |
| 24 | Design of an inhibitor of <i>Helicobacter pylori</i> cholesteryl- α -D-glucoside transferase critical for bacterial colonization. <i>Helicobacter</i> , 2020, 25, e12720. | 3.5 | 2 |
| 25 | Protein-protein complexes as targets for drug discovery against infectious diseases. <i>Advances in Protein Chemistry and Structural Biology</i> , 2020, 121, 237-251. | 2.3 | 2 |
| 26 | Phenanthridine derivatives as promising new anticancer agents: synthesis, biological evaluation and binding studies. <i>Future Medicinal Chemistry</i> , 2020, 12, 709-739. | 2.3 | 14 |
| 27 | Mutually exclusive locales for N-linked glycans and disorder in human glycoproteins. <i>Scientific Reports</i> , 2020, 10, 6040. | 3.3 | 9 |
| 28 | Interplay between two spin states determines the hydroxylation catalyzed by P ₄₅₀ monooxygenase from <i>Trichoderma brevicompactum</i> . <i>Journal of Computational Chemistry</i> , 2020, 41, 1330-1336. | 3.3 | 2 |
| 29 | Inhibition of CD44 sensitizes cisplatin-resistance and affects Wnt/ β -catenin signaling in HNSCC cells. <i>International Journal of Biological Macromolecules</i> , 2020, 149, 501-512. | 7.5 | 28 |
| 30 | Role of telomeric RAP1 in radiation sensitivity modulation and its interaction with CSC marker KLF4 in colorectal cancer. <i>International Journal of Radiation Biology</i> , 2020, 96, 790-802. | 1.8 | 12 |
| 31 | The Impacts of Unfolded Protein Response in the Retinal Cells During Diabetes: Possible Implications on Diabetic Retinopathy Development. <i>Frontiers in Cellular Neuroscience</i> , 2020, 14, 615125. | 3.7 | 3 |
| 32 | Drug Re-purposing from SARS-CoV Led the Identification of Potential Candidate Drug Target and Alternate Drug Molecules Against SARSCoV- 2. <i>Letters in Drug Design and Discovery</i> , 2020, 17, 1325-1327. | 0.7 | 1 |
| 33 | Evaluation of pyrrole-2,3-dicarboxylate derivatives: Synthesis, DFT analysis, molecular docking, virtual screening and in vitro anti-hepatic cancer study. <i>Journal of Molecular Structure</i> , 2019, 1176, 314-334. | 3.6 | 24 |
| 34 | Physicochemical surface characteristics in different pathogenic bacteria. <i>Cogent Biology</i> , 2019, 5, 1638572. | 1.7 | 4 |
| 35 | The molecular link between tyrosol binding to tri6 transcriptional regulator and downregulation of trichothecene biosynthesis. <i>Biochimie</i> , 2019, 160, 14-23. | 2.6 | 3 |
| 36 | Attenuation of neuroblastoma cell growth by nisin is mediated by modulation of phase behavior and enhanced cell membrane fluidity. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 1980-1987. | 2.8 | 16 |

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|----|---|-----|-----------|
| 37 | A review on remediation of cyanide containing industrial wastes using biological systems with special reference to enzymatic degradation. <i>World Journal of Microbiology and Biotechnology</i> , 2019, 35, 70. | 3.6 | 46 |
| 38 | PDZ Domains Across the Microbial World: Molecular Link to the Proteases, Stress Response, and Protein Synthesis. <i>Genome Biology and Evolution</i> , 2019, 11, 644-659. | 2.5 | 12 |
| 39 | Uddanam Kidney Nephropathy Under the Light of Metagenomics Perspective. <i>SN Comprehensive Clinical Medicine</i> , 2019, 1, 23-25. | 0.6 | 1 |
| 40 | Peptidyl-prolyl isomerase-B is involved in <i>Mycobacterium tuberculosis</i> biofilm formation and a generic target for drug repurposing-based intervention. <i>Npj Biofilms and Microbiomes</i> , 2019, 5, 3. | 6.4 | 51 |
| 41 | Biodegradation of di- <i>n</i> -butyl phthalate by psychrotolerant <i>Sphingobium yanoikuyae</i> strain P4 and protein structural analysis of carboxylesterase involved in the pathway. <i>International Journal of Biological Macromolecules</i> , 2019, 122, 806-816. | 7.5 | 40 |
| 42 | The revelation of selective sphingolipid pathway inhibition mechanism on fumonisin toxin binding to ceramide synthases in susceptible organisms and survival mechanism in resistant species. <i>Biochimie</i> , 2018, 149, 41-50. | 2.6 | 5 |
| 43 | Comparative proteome analysis reveals pathogen specific outer membrane proteins of <i>Leptospira</i> . <i>Proteins: Structure, Function and Bioinformatics</i> , 2018, 86, 712-722. | 2.6 | 3 |
| 44 | Identification of a unique loss-of-function mutation in IGF1R and a crosstalk between IGF1R and Wnt/ β -catenin signaling pathways. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2018, 1865, 920-931. | 4.1 | 15 |
| 45 | System-wide coordinates of higher order functions in host-pathogen environment upon <i>Mycobacterium tuberculosis</i> infection. <i>Scientific Reports</i> , 2018, 8, 5079. | 3.3 | 18 |
| 46 | Exploring the novel heterocyclic derivatives as lead molecules for design and development of potent anticancer agents. <i>Journal of Molecular Graphics and Modelling</i> , 2018, 81, 211-228. | 2.4 | 39 |
| 47 | Identification of novel inhibitors against UDP-galactopyranose mutase to combat leishmaniasis. <i>Journal of Cellular Biochemistry</i> , 2018, 119, 2653-2665. | 2.6 | 27 |
| 48 | Genome wide identification of cotton (<i>Gossypium hirsutum</i>)-encoded microRNA targets against Cotton leaf curl Burewala virus. <i>Gene</i> , 2018, 638, 60-65. | 2.2 | 20 |
| 49 | Evolution of catalytic microenvironment governs substrate and product diversity in trichodiene synthase and other terpene fold enzymes. <i>Biochimie</i> , 2018, 144, 9-20. | 2.6 | 5 |
| 50 | Evolution of structural fitness and multifunctional aspects of mycobacterial RND family transporters. <i>Archives of Microbiology</i> , 2018, 200, 19-31. | 2.2 | 16 |
| 51 | Modulation of <i>S. aureus</i> and <i>P. aeruginosa</i> biofilm: an in vitro study with new coumarin derivatives. <i>World Journal of Microbiology and Biotechnology</i> , 2018, 34, 170. | 3.6 | 14 |
| 52 | Recent Trends in System-Scale Integrative Approaches for Discovering Protective Antigens Against Mycobacterial Pathogens. <i>Frontiers in Genetics</i> , 2018, 9, 572. | 2.3 | 10 |
| 53 | The role of p38 MAPK pathway in p53 compromised state and telomere mediated DNA damage response. <i>Mutation Research - Genetic Toxicology and Environmental Mutagenesis</i> , 2018, 836, 89-97. | 1.7 | 28 |
| 54 | Free tryptophan residues inhibit quorum sensing of <i>Pseudomonas aeruginosa</i> : a potential approach to inhibit the development of microbial biofilm. <i>Archives of Microbiology</i> , 2018, 200, 1419-1425. | 2.2 | 15 |

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|----|---|-----|-----------|
| 55 | Molecular insights into the activity and mechanism of cyanide hydratase enzyme associated with cyanide biodegradation by <i>Serratia marcescens</i> . <i>Archives of Microbiology</i> , 2018, 200, 971-977. | 2.2 | 6 |
| 56 | Augmentation of cytochrome P450 monooxygenase catalysis on its interaction with NADPH-cytochrome P450 reductase FMN domain from <i>Trichoderma brevicompactum</i> . <i>International Journal of Biochemistry and Cell Biology</i> , 2018, 103, 74-80. | 2.8 | 2 |
| 57 | Role of Telomeric TRF2 in Orosphere Formation and CSC Phenotype Maintenance Through Efficient DNA Repair Pathway and its Correlation with Recurrence in OSCC. <i>Stem Cell Reviews and Reports</i> , 2018, 14, 871-887. | 5.6 | 10 |
| 58 | p38 MAPK pathway and its interaction with TRF2 in cisplatin induced chemotherapeutic response in head and neck cancer. <i>Oncogenesis</i> , 2018, 7, 53. | 4.9 | 18 |
| 59 | Antibiofilm activity of <i>Parkia javanica</i> against <i>Pseudomonas aeruginosa</i> : a study with fruit extract. <i>RSC Advances</i> , 2017, 7, 5497-5513. | 3.6 | 29 |
| 60 | Proteome scale identification, classification and structural analysis of iron-binding proteins in bread wheat. <i>Journal of Inorganic Biochemistry</i> , 2017, 170, 63-74. | 3.5 | 12 |
| 61 | Siderophore transport by MmpL5-MmpS5 protein complex in <i>Mycobacterium tuberculosis</i> . <i>Journal of Inorganic Biochemistry</i> , 2017, 170, 75-84. | 3.5 | 19 |
| 62 | Potential of antibiotic against <i>Pseudomonas aeruginosa</i> biofilm: a study with plumbagin and gentamicin. <i>Journal of Applied Microbiology</i> , 2017, 123, 246-261. | 3.1 | 33 |
| 63 | Species specific substrates and products choices of 4-O-acetyltransferase from <i>Trichoderma brevicompactum</i> . <i>Enzyme and Microbial Technology</i> , 2017, 104, 29-36. | 3.2 | 7 |
| 64 | Catalytic diversity and homotropic allostery of two Cytochrome P450 monooxygenase like proteins from <i>Trichoderma brevicompactum</i> . <i>Journal of Biological Inorganic Chemistry</i> , 2017, 22, 1197-1209. | 2.6 | 6 |
| 65 | Targets of ubiquitin like system in mycobacteria and related actinobacterial species. <i>Microbiological Research</i> , 2017, 204, 9-29. | 5.3 | 12 |
| 66 | Exploration of Phytoconstituents from <i>Mussaenda roxburghii</i> and Studies of Their Antibiofilm Effect. <i>Chemistry and Biodiversity</i> , 2017, 14, e1700165. | 2.1 | 7 |
| 67 | Implication of sphingosine-1-phosphate signaling in diseases: molecular mechanism and therapeutic strategies. <i>Journal of Receptor and Signal Transduction Research</i> , 2017, 37, 437-446. | 2.5 | 18 |
| 68 | Antileishmanial and immunomodulatory activities of lupeol, a triterpene compound isolated from <i>Sterculia villosa</i> . <i>International Journal of Antimicrobial Agents</i> , 2017, 50, 512-522. | 2.5 | 45 |
| 69 | Structural basis of transport function in major facilitator superfamily protein from <i>Trichoderma harzianum</i> . <i>International Journal of Biological Macromolecules</i> , 2017, 95, 1091-1100. | 7.5 | 2 |
| 70 | Genome scale identification, structural analysis, and classification of periplasmic binding proteins from <i>Mycobacterium tuberculosis</i> . <i>Current Genetics</i> , 2017, 63, 553-576. | 1.7 | 1 |
| 71 | Molecular Dynamics Simulations, Challenges and Opportunities: A Biologist's Prospective. <i>Current Protein and Peptide Science</i> , 2017, 18, 1163-1179. | 1.4 | 19 |
| 72 | Screening of Novel Inhibitors Against <i>Leishmania donovani</i> Calcium ion Channel to Fight Leishmaniasis. <i>Infectious Disorders - Drug Targets</i> , 2017, 17, 120-129. | 0.8 | 19 |

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|----|--|-----|-----------|
| 73 | Understanding the plant-microbe interaction molecular mechanisms for better exploitation of bio-control agents to enhance sustainable agricultural practices. Canadian Journal of Biotechnology, 2017, 1, 170-170. | 0.3 | 0 |
| 74 | Lipid-II Independent Antimicrobial Mechanism of Nisin Depends On Its Crowding And Degree Of Oligomerization. Scientific Reports, 2016, 6, 37908. | 3.3 | 95 |
| 75 | Multifaceted impact of trichothecene metabolites on plant-microbe interactions and human health. Applied Microbiology and Biotechnology, 2016, 100, 5759-5771. | 3.6 | 11 |
| 76 | Proteome scale census of major facilitator superfamily transporters in Trichoderma reesei using protein sequence and structure based classification enhanced ranking. Gene, 2016, 585, 166-176. | 2.2 | 38 |
| 77 | Deciphering the protein translation inhibition and coping mechanism of trichothecene toxin in resistant fungi. International Journal of Biochemistry and Cell Biology, 2016, 78, 370-376. | 2.8 | 9 |
| 78 | Terminal regions of β -catenin are critical for regulating its adhesion and transcription functions. Biochimica Et Biophysica Acta - Molecular Cell Research, 2016, 1863, 2345-2357. | 4.1 | 14 |
| 79 | Excavating the surface-associated and secretory proteome of <i>Mycobacterium leprae</i> for identifying vaccines and diagnostic markers relevant immunodominant epitopes. Pathogens and Disease, 2016, 74, ftw110. | 2.0 | 11 |
| 80 | Attenuation of Pseudomonas aeruginosa biofilm formation by Vitexin: A combinatorial study with azithromycin and gentamicin. Scientific Reports, 2016, 6, 23347. | 3.3 | 152 |
| 81 | A multi-subunit based, thermodynamically stable model vaccine using combined immunoinformatics and protein structure based approach. Immunobiology, 2016, 221, 544-557. | 1.9 | 80 |
| 82 | The drug binding sites and transport mechanism of the RND pumps from Mycobacterium tuberculosis: Insights from molecular dynamics simulations. Archives of Biochemistry and Biophysics, 2016, 592, 38-49. | 3.0 | 25 |
| 83 | Structural and mechanistic analysis of engineered trichodiene synthase enzymes from <i>Trichoderma harzianum</i> : towards higher catalytic activities empowering sustainable agriculture. Journal of Biomolecular Structure and Dynamics, 2016, 34, 1176-1189. | 3.5 | 15 |
| 84 | Sphingosine-1-phosphate signaling: unraveling its role as a drug target against infectious diseases. Drug Discovery Today, 2016, 21, 133-142. | 6.4 | 28 |
| 85 | Proteome-wide B and T cell epitope repertoires in outer membrane proteins of <i>Mycobacterium avium</i> subsp. <i>paratuberculosis</i> have vaccine and diagnostic relevance: a holistic approach. Journal of Molecular Recognition, 2015, 28, 506-520. | 2.1 | 22 |
| 86 | Proteome-scale identification and characterization of mitochondria targeting proteins of Mycobacterium avium subspecies paratuberculosis: Potential virulence factors modulating host mitochondrial function. Mitochondrion, 2015, 23, 42-54. | 3.4 | 10 |
| 87 | A tug-of-war between the host and the pathogen generates strategic hotspots for the development of novel therapeutic interventions against infectious diseases. Virulence, 2015, 6, 566-580. | 4.4 | 22 |
| 88 | Orchestration of membrane receptor signaling by membrane lipids. Biochimie, 2015, 113, 111-124. | 2.6 | 24 |
| 89 | The internal gene duplication and interrupted coding sequences in the MmpL genes of Mycobacterium tuberculosis: Towards understanding the multidrug transport in an evolutionary perspective. International Journal of Medical Microbiology, 2015, 305, 413-423. | 3.6 | 33 |
| 90 | Proteome-scale identification of outer membrane proteins in Mycobacterium avium subspecies paratuberculosis using a structure based combined hierarchical approach. Molecular BioSystems, 2014, 10, 2329-2337. | 2.9 | 16 |

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|-----|--|-----|-----------|
| 91 | Active site conformational changes upon reaction intermediate biotinylâ€5'â€AMP binding in biotin protein ligase from <i>Mycobacterium tuberculosis</i> . <i>Protein Science</i> , 2014, 23, 932-939. | 7.6 | 12 |
| 92 | Host-lipidome as a potential target of protozoan parasites. <i>Microbes and Infection</i> , 2013, 15, 649-660. | 1.9 | 28 |
| 93 | The PE/PPE multigene family codes for virulence factors and is a possible source of mycobacterial antigenic variation: Perhaps more?. <i>Biochimie</i> , 2012, 94, 110-116. | 2.6 | 149 |
| 94 | Proteomeâ€wide identification of mycobacterial pupylation targets. <i>Molecular Systems Biology</i> , 2010, 6, 386. | 7.2 | 94 |
| 95 | Mapping Conformational Transitions in Cyclic AMP Receptor Protein: Crystal Structure and Normal-Mode Analysis of <i>Mycobacterium tuberculosis</i> apo-cAMP Receptor Protein. <i>Biophysical Journal</i> , 2010, 98, 305-314. | 0.5 | 27 |
| 96 | Genome scale portrait of cAMP-receptor protein (CRP) regulons in mycobacteria points to their role in pathogenesis. <i>Gene</i> , 2008, 407, 148-158. | 2.2 | 40 |
| 97 | Novel biochemical properties of a CRP/FNR family transcription factor from <i>Mycobacterium tuberculosis</i> . <i>International Journal of Medical Microbiology</i> , 2007, 297, 451-457. | 3.6 | 22 |
| 98 | The co-evolved <i>Helicobacter pylori</i> and gastric cancer: trinity of bacterial virulence, host susceptibility and lifestyle. <i>Infectious Agents and Cancer</i> , 2007, 2, 2. | 2.6 | 26 |
| 99 | Ancestral European roots of <i>Helicobacter pylori</i> in India. <i>BMC Genomics</i> , 2007, 8, 184. | 2.8 | 69 |
| 100 | Clusters of PE and PPE genes of <i>Mycobacterium tuberculosis</i> are organized in operons: Evidence that PE Rv2431c is coâ€transcribed with PPE Rv2430c and their gene products interact with each other. <i>FEBS Letters</i> , 2006, 580, 1285-1293. | 2.8 | 75 |
| 101 | Crystallization and preliminary X-ray crystallographic studies of <i>Mycobacterium tuberculosis</i> CRP/FNR family transcription regulator. <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2006, 62, 873-875. | 0.7 | 8 |