

# Yusuf Akhter

## List of Publications by Year in descending order

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101  
papers

2,101  
citations

257101

24  
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288905

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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.	2.1	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.	1.5	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.	1.5	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.	0.5	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.	0.6	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.	1.8	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.	0.9	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.	3.6	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, .	1.2	3
10	Vitexin alters <i>Staphylococcus aureus</i> surface hydrophobicity to obstruct biofilm formation. <i>Microbiological Research</i> , 2022, 263, 127126.	2.5	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.	1.0	4
12	Ornithine carbamoyltransferase from psychrophiles to thermophiles: structural evolution of catalytic fold to accommodate physiological diversity. <i>Extremophiles</i> , 2021, 25, 15-24.	0.9	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.	1.1	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.	0.8	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.	1.3	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.	3.6	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.	1.8	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.	1.3	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.	1.8	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.	1.7	21
21	The anti-biofilm potential of triterpenoids isolated from <i>Sarcochlamys pulcherrima</i> (Roxb.) Gaud. <i>Microbial Pathogenesis</i> , 2020, 139, 103901.	1.3	8
22	Fungal acetyltransferases structures, mechanisms and inhibitors: A review. <i>International Journal of Biological Macromolecules</i> , 2020, 157, 626-640.	3.6	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.	0.5	5
24	Design of an inhibitor of <i>Helicobacter pylori</i> cholesteryl- $\alpha$ -D-glucoside transferase critical for bacterial colonization. <i>Helicobacter</i> , 2020, 25, e12720.	1.6	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.	1.0	2
26	Phenanthridine derivatives as promising new anticancer agents: synthesis, biological evaluation and binding studies. <i>Future Medicinal Chemistry</i> , 2020, 12, 709-739.	1.1	14
27	Mutually exclusive locales for N-linked glycans and disorder in human glycoproteins. <i>Scientific Reports</i> , 2020, 10, 6040.	1.6	9
28	Interplay between two spin states determines the hydroxylation catalyzed by P <sub>450</sub> monooxygenase from <i>Trichoderma brevicompactum</i> . <i>Journal of Computational Chemistry</i> , 2020, 41, 1330-1336.	1.5	2
29	Inhibition of CD44 sensitizes cisplatin-resistance and affects Wnt/ $\beta$ -catenin signaling in HNSCC cells. <i>International Journal of Biological Macromolecules</i> , 2020, 149, 501-512.	3.6	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.	1.0	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.	1.8	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.	0.4	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.	1.8	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.	1.3	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.	1.3	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.	1.7	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.	1.1	12
39	Uddanam Kidney Nephropathy Under the Light of Metagenomics Perspective. <i>SN Comprehensive Clinical Medicine</i> , 2019, 1, 23-25.	0.3	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.	2.9	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.	3.6	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.	1.3	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.	1.5	3
44	Identification of a unique loss-of-function mutation in IGF1R and a crosstalk between IGF1R and Wnt/ $\beta$ -catenin signaling pathways. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2018, 1865, 920-931.	1.9	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.	1.6	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.	1.3	39
47	Identification of novel inhibitors against UDP-galactopyranose mutase to combat leishmaniasis. <i>Journal of Cellular Biochemistry</i> , 2018, 119, 2653-2665.	1.2	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.	1.0	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.	1.3	5
50	Evolution of structural fitness and multifunctional aspects of mycobacterial RND family transporters. <i>Archives of Microbiology</i> , 2018, 200, 19-31.	1.0	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.	1.7	14
52	Recent Trends in System-Scale Integrative Approaches for Discovering Protective Antigens Against Mycobacterial Pathogens. <i>Frontiers in Genetics</i> , 2018, 9, 572.	1.1	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.	0.9	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.	1.0	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.	1.0	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.	1.2	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.	2.1	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.	1.7	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.	1.5	12
61	Siderophore transport by MmpL5-MmpS5 protein complex in <i>Mycobacterium tuberculosis</i> . <i>Journal of Inorganic Biochemistry</i> , 2017, 170, 75-84.	1.5	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.	1.4	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.	1.6	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.	1.1	6
65	Targets of ubiquitin like system in mycobacteria and related actinobacterial species. <i>Microbiological Research</i> , 2017, 204, 9-29.	2.5	12
66	Exploration of Phytoconstituents from <i>Mussaenda roxburghii</i> and Studies of Their Antibiofilm Effect. <i>Chemistry and Biodiversity</i> , 2017, 14, e1700165.	1.0	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.	1.3	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.	1.1	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.	3.6	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.	0.8	1
71	Molecular Dynamics Simulations, Challenges and Opportunities: A Biologist's Prospective. <i>Current Protein and Peptide Science</i> , 2017, 18, 1163-1179.	0.7	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.	0.4	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.	1.6	95
75	Multifaceted impact of trichothecene metabolites on plant-microbe interactions and human health. Applied Microbiology and Biotechnology, 2016, 100, 5759-5771.	1.7	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.	1.0	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.	1.2	9
78	Terminal regions of $\beta$ -catenin are critical for regulating its adhesion and transcription functions. Biochimica Et Biophysica Acta - Molecular Cell Research, 2016, 1863, 2345-2357.	1.9	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.	0.8	11
80	Attenuation of Pseudomonas aeruginosa biofilm formation by Vitexin: A combinatorial study with azithromycin and gentamicin. Scientific Reports, 2016, 6, 23347.	1.6	152
81	A multi-subunit based, thermodynamically stable model vaccine using combined immunoinformatics and protein structure based approach. Immunobiology, 2016, 221, 544-557.	0.8	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.	1.4	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.	2.0	15
84	Sphingosine-1-phosphate signaling: unraveling its role as a drug target against infectious diseases. Drug Discovery Today, 2016, 21, 133-142.	3.2	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.	1.1	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.	1.6	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.	1.8	22
88	Orchestration of membrane receptor signaling by membrane lipids. Biochimie, 2015, 113, 111-124.	1.3	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.	1.5	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.	3.1	12
92	Host-lipidome as a potential target of protozoan parasites. <i>Microbes and Infection</i> , 2013, 15, 649-660.	1.0	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.	1.3	149
94	Proteomeâ€wide identification of mycobacterial pupylation targets. <i>Molecular Systems Biology</i> , 2010, 6, 386.	3.2	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.	0.2	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.	1.0	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.	1.5	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.	1.2	26
99	Ancestral European roots of <i>Helicobacter pylori</i> in India. <i>BMC Genomics</i> , 2007, 8, 184.	1.2	69
100	Clusters of PE and PPE genes of <i>Mycobacterium tuberculosis</i> are organized in operons: Evidence that PE Rv2431c is co-transcribed with PPE Rv2430c and their gene products interact with each other. <i>FEBS Letters</i> , 2006, 580, 1285-1293.	1.3	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