

# Yusuf Akhter

## List of Publications by Year in descending order

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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	Attenuation of <i>Pseudomonas aeruginosa</i> biofilm formation by Vitexin: A combinatorial study with azithromycin and gentamicin. <i>Scientific Reports</i> , 2016, 6, 23347.	3.3	152
2	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
3	Lipid-II Independent Antimicrobial Mechanism of Nisin Depends On Its Crowding And Degree Of Oligomerization. <i>Scientific Reports</i> , 2016, 6, 37908.	3.3	95
4	Proteome-wide identification of mycobacterial pupylation targets. <i>Molecular Systems Biology</i> , 2010, 6, 386.	7.2	94
5	A multi-subunit based, thermodynamically stable model vaccine using combined immunoinformatics and protein structure based approach. <i>Immunobiology</i> , 2016, 221, 544-557.	1.9	80
6	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.	2.8	75
7	Ancestral European roots of <i>Helicobacter pylori</i> in India. <i>BMC Genomics</i> , 2007, 8, 184.	2.8	69
8	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
9	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
10	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
11	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
12	Biodegradation of di-n-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
13	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
14	Proteome scale census of major facilitator superfamily transporters in <i>Trichoderma reesei</i> using protein sequence and structure based classification enhanced ranking. <i>Gene</i> , 2016, 585, 166-176.	2.2	38
15	The internal gene duplication and interrupted coding sequences in the MmpL genes of <i>Mycobacterium tuberculosis</i> : Towards understanding the multidrug transport in an evolutionary perspective. <i>International Journal of Medical Microbiology</i> , 2015, 305, 413-423.	3.6	33
16	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
17	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
18	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

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19	Host-lipidome as a potential target of protozoan parasites. <i>Microbes and Infection</i> , 2013, 15, 649-660.	1.9	28
20	Sphingosine-1-phosphate signaling: unraveling its role as a drug target against infectious diseases. <i>Drug Discovery Today</i> , 2016, 21, 133-142.	6.4	28
21	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
22	Inhibition of CD44 sensitizes cisplatin-resistance and affects Wnt/ $\beta$ 2-catenin signaling in HNSCC cells. <i>International Journal of Biological Macromolecules</i> , 2020, 149, 501-512.	7.5	28
23	Mapping Conformational Transitions in Cyclic AMP Receptor Protein: Crystal Structure and Normal-Mode Analysis of Mycobacterium tuberculosis apo-cAMP Receptor Protein. <i>Biophysical Journal</i> , 2010, 98, 305-314.	0.5	27
24	Identification of novel inhibitors against UDP-galactopyranose mutase to combat leishmaniasis. <i>Journal of Cellular Biochemistry</i> , 2018, 119, 2653-2665.	2.6	27
25	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
26	The co-evolved Helicobacter pylori and gastric cancer: trinity of bacterial virulence, host susceptibility and lifestyle. <i>Infectious Agents and Cancer</i> , 2007, 2, 2.	2.6	26
27	The drug binding sites and transport mechanism of the RND pumps from Mycobacterium tuberculosis: Insights from molecular dynamics simulations. <i>Archives of Biochemistry and Biophysics</i> , 2016, 592, 38-49.	3.0	25
28	Orchestration of membrane receptor signaling by membrane lipids. <i>Biochimie</i> , 2015, 113, 111-124.	2.6	24
29	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
30	Novel biochemical properties of a CRP/FNR family transcription factor from Mycobacterium tuberculosis. <i>International Journal of Medical Microbiology</i> , 2007, 297, 451-457.	3.6	22
31	Proteome-wide B and T cell epitope repertoires in outer membrane proteins of Mycobacterium avium subsp. paratuberculosis have vaccine and diagnostic relevance: a holistic approach. <i>Journal of Molecular Recognition</i> , 2015, 28, 506-520.	2.1	22
32	A tug-of-war between the host and the pathogen generates strategic hotspots for the development of novel therapeutic interventions against infectious diseases. <i>Virulence</i> , 2015, 6, 566-580.	4.4	22
33	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
34	Vitexin alters Staphylococcus aureus surface hydrophobicity to obstruct biofilm formation. <i>Microbiological Research</i> , 2022, 263, 127126.	5.3	21
35	Genome wide identification of cotton ( Gossypium hirsutum )-encoded microRNA targets against Cotton leaf curl Burewala virus. <i>Gene</i> , 2018, 638, 60-65.	2.2	20
36	Siderophore transport by MmpL5-MmpS5 protein complex in Mycobacterium tuberculosis. <i>Journal of Inorganic Biochemistry</i> , 2017, 170, 75-84.	3.5	19

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37	Molecular Dynamics Simulations, Challenges and Opportunities: A Biologist's Prospective. <i>Current Protein and Peptide Science</i> , 2017, 18, 1163-1179.	1.4	19
38	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
39	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
40	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
41	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
42	Proteome-scale identification of outer membrane proteins in <i>Mycobacterium avium</i> subspecies paratuberculosis using a structure based combined hierarchical approach. <i>Molecular BioSystems</i> , 2014, 10, 2329-2337.	2.9	16
43	Evolution of structural fitness and multifunctional aspects of mycobacterial RND family transporters. <i>Archives of Microbiology</i> , 2018, 200, 19-31.	2.2	16
44	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
45	Structural and mechanistic analysis of engineered trichodiene synthase enzymes from <i>Trichoderma harzianum</i> : towards higher catalytic activities empowering sustainable agriculture. <i>Journal of Biomolecular Structure and Dynamics</i> , 2016, 34, 1176-1189.	3.5	15
46	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.	4.1	15
47	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
48	Terminal regions of $\beta$ -catenin are critical for regulating its adhesion and transcription functions. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2016, 1863, 2345-2357.	4.1	14
49	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
50	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
51	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
52	Active site conformational changes upon reaction intermediate biotinyl-5'-AMP binding in biotin protein ligase from <i>Mycobacterium tuberculosis</i> . <i>Protein Science</i> , 2014, 23, 932-939.	7.6	12
53	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
54	Targets of ubiquitin like system in mycobacteria and related actinobacterial species. <i>Microbiological Research</i> , 2017, 204, 9-29.	5.3	12

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55	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
56	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
57	Multifaceted impact of trichothecene metabolites on plant-microbe interactions and human health. <i>Applied Microbiology and Biotechnology</i> , 2016, 100, 5759-5771.	3.6	11
58	Excavating the surface-associated and secretory proteome of <i>Mycobacterium leprae</i> for identifying vaccines and diagnostic markers relevant immunodominant epitopes. <i>Pathogens and Disease</i> , 2016, 74, ftw110.	2.0	11
59	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
60	Proteome-scale identification and characterization of mitochondria targeting proteins of <i>Mycobacterium avium</i> subspecies <i>paratuberculosis</i> : Potential virulence factors modulating host mitochondrial function. <i>Mitochondrion</i> , 2015, 23, 42-54.	3.4	10
61	Recent Trends in System-Scale Integrative Approaches for Discovering Protective Antigens Against <i>Mycobacterial</i> Pathogens. <i>Frontiers in Genetics</i> , 2018, 9, 572.	2.3	10
62	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
63	Deciphering the protein translation inhibition and coping mechanism of trichothecene toxin in resistant fungi. <i>International Journal of Biochemistry and Cell Biology</i> , 2016, 78, 370-376.	2.8	9
64	Mutually exclusive locales for N-linked glycans and disorder in human glycoproteins. <i>Scientific Reports</i> , 2020, 10, 6040.	3.3	9
65	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
66	The anti-biofilm potential of triterpenoids isolated from <i>Sarcochlamys pulcherrima</i> (Roxb.) Gaud. <i>Microbial Pathogenesis</i> , 2020, 139, 103901.	2.9	8
67	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
68	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
69	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
70	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
71	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
72	Fungal acetyltransferases structures, mechanisms and inhibitors: A review. <i>International Journal of Biological Macromolecules</i> , 2020, 157, 626-640.	7.5	6

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73	Computational approach towards the design of novel inhibitor against universal stress protein A to combat multidrug resistant uropathogenic Escherichia coli. Journal of Molecular Structure, 2021, 1238, 130379.	3.6	6
74	The revelation of selective sphingolipid pathway inhibition mechanism on fumonisin toxin binding to ceramide synthases in susceptible organisms and survival mechanism in resistant species. Biochimie, 2018, 149, 41-50.	2.6	5
75	Evolution of catalytic microenvironment governs substrate and product diversity in trichodiene synthase and other terpene fold enzymes. Biochimie, 2018, 144, 9-20.	2.6	5
76	Analyzing structural differences between insulin receptor (IR) and IGF1R for designing small molecule allosteric inhibitors of IGF1R as novel anti-cancer agents. Growth Hormone and IGF Research, 2020, 55, 101343.	1.1	5
77	Auxin transport mechanism of membrane transporter encoded by AEC gene of Bacillus licheniformis isolated from metagenome of Tapta Kund Hotspring of Utrakhand, India. International Journal of Biological Macromolecules, 2021, 185, 277-286.	7.5	5
78	Physicochemical surface characteristics in different pathogenic bacteria. Cogent Biology, 2019, 5, 1638572.	1.7	4
79	Taxonomic profiling and functional characterization of the healthy human oral bacterial microbiome from the north Indian urban sub-population. Archives of Microbiology, 2021, 203, 927-939.	2.2	4
80	Comparative proteome analysis reveals pathogen specific outer membrane proteins of <i>Leptospira</i> . Proteins: Structure, Function and Bioinformatics, 2018, 86, 712-722.	2.6	3
81	The molecular link between tyrosol binding to tri6 transcriptional regulator and downregulation of trichothecene biosynthesis. Biochimie, 2019, 160, 14-23.	2.6	3
82	The Impacts of Unfolded Protein Response in the Retinal Cells During Diabetes: Possible Implications on Diabetic Retinopathy Development. Frontiers in Cellular Neuroscience, 2020, 14, 615125.	3.7	3
83	Synthesis of new chrysin derivatives with substantial antibiofilm activity. Molecular Diversity, 2022, 26, 137-156.	3.9	3
84	A comparative study of microsatellites among crocodiles and development of genomic resources for the critically endangered Indian gharial. Genetica, 2022, 150, 67-75.	1.1	3
85	Evaluation of anticancer activity of N H/N-Me Aziridine derivatives as a potential poly (ADP-ribose) polymerase 1 inhibitor. Journal of Molecular Structure, 2022, 1258, 132689.	3.6	3
86	Simple sequence repeat insertion induced stability and potential "gain of function" in the proteins of extremophilic bacteria. Extremophiles, 2022, 26, 17.	2.3	3
87	Identification of a stretch of four discontinuous amino acids involved in regulating kinase activity of IGF1R. Journal of Cell Science, 2022, 135, .	2.0	3
88	Structural basis of transport function in major facilitator superfamily protein from Trichoderma harzianum. International Journal of Biological Macromolecules, 2017, 95, 1091-1100.	7.5	2
89	Augmentation of cytochrome P450 monooxygenase catalysis on its interaction with NADPH-cytochrome P450 reductase FMN domain from Trichoderma brevicompactum. International Journal of Biochemistry and Cell Biology, 2018, 103, 74-80.	2.8	2
90	Design of an inhibitor of Helicobacter pylori cholesteryl- $\beta$ -D-glucoside transferase critical for bacterial colonization. Helicobacter, 2020, 25, e12720.	3.5	2

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91	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
92	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.	3.3	2
93	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
94	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
95	Uddanam Kidney Nephropathy Under the Light of Metagenomics Perspective. <i>SN Comprehensive Clinical Medicine</i> , 2019, 1, 23-25.	0.6	1
96	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
97	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
98	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
99	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
100	Understanding the plant-microbe interaction molecular mechanisms for better exploitation of bio-control agents to enhance sustainable agricultural practices. <i>Canadian Journal of Biotechnology</i> , 2017, 1, 170-170.	0.3	0
101	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