

# Mohammad Hassan Baig

## List of Publications by Year in Descending Order

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**Version:** 2024-04-17

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

56  
papers

1,619  
citations

23  
h-index

39  
g-index

60  
ext. papers

2,151  
ext. citations

4.3  
avg, IF

4.99  
L-index

#	Paper	IF	Citations
56	Biosynthesized Zinc Oxide Nanoparticles Disrupt Established Biofilms of Pathogenic Bacteria. <i>Applied Sciences (Switzerland)</i> , <b>2022</b> , 12, 710	2.6	6
55	Silk Cocoon-Derived Protein Bioinspired Gold Nanoparticles as a Formidable Anticancer Agent.. <i>Journal of Biomedical Nanotechnology</i> , <b>2021</b> , 17, 615-626	4	7
54	Impact of the Double Mutants on Spike Protein of SARS-CoV-2 B.1.617 Lineage on the Human ACE2 Receptor Binding: A Structural Insight. <i>Viruses</i> , <b>2021</b> , 13,	6.2	3
53	Identification of Novel FNIN2 and FNIN3 Fibronectin-Derived Peptides That Promote Cell Adhesion, Proliferation and Differentiation in Primary Cells and Stem Cells. <i>International Journal of Molecular Sciences</i> , <b>2021</b> , 22,	6.3	4
52	Is PF-00835231 a Pan-SARS-CoV-2 Mpro Inhibitor? A Comparative Study. <i>Molecules</i> , <b>2021</b> , 26,	4.8	8
51	Screening of drug databank against WT and mutant main protease of SARS-CoV-2: Towards finding potential compound for repurposing against COVID-19. <i>Saudi Journal of Biological Sciences</i> , <b>2021</b> , 28, 3152-3159	4	5
50	Screening of inhibitors against SARS-CoV-2 spike protein and their capability to block the viral entry mechanism: A viroinformatics study. <i>Saudi Journal of Biological Sciences</i> , <b>2021</b> , 28, 3262-3269	4	3
49	Deciphering the Role of Autophagy in Treatment of Resistance Mechanisms in Glioblastoma. <i>International Journal of Molecular Sciences</i> , <b>2021</b> , 22,	6.3	5
48	Design and Synthesis of Bioinspired Benzocoumarin-Chalcones Chimeras as Potential Anti-Breast Cancer Agents. <i>ChemistrySelect</i> , <b>2021</b> , 6, 8754-8765	1.8	2
47	Bio-fabrication of titanium oxide nanoparticles from <i>Ochradenus arabicus</i> to obliterate biofilms of drug-resistant <i>Staphylococcus aureus</i> and <i>Pseudomonas aeruginosa</i> isolated from diabetic foot infections. <i>Applied Nanoscience (Switzerland)</i> , <b>2021</b> , 11, 375-387	3.3	6
46	Comparative genome analysis of novel coronavirus (SARS-CoV-2) from different geographical locations and the effect of mutations on major target proteins: An in silico insight. <i>PLoS ONE</i> , <b>2020</b> , 15, e0238344	3.7	51
45	Biophysical interactions, docking studies and cytotoxic potential of a novel propofol-linolenate: a multi-technique approach. <i>Journal of Biomolecular Structure and Dynamics</i> , <b>2020</b> , 38, 2389-2401	3.6	3
44	NeuroMuscleDB: a Database of Genes Associated with Muscle Development, Neuromuscular Diseases, Ageing, and Neurodegeneration. <i>Molecular Neurobiology</i> , <b>2019</b> , 56, 5835-5843	6.2	6
43	Mechanistic Insights into the Antimicrobial Actions of Metallic Nanoparticles and Their Implications for Multidrug Resistance. <i>International Journal of Molecular Sciences</i> , <b>2019</b> , 20,	6.3	159
42	Multi-Spectroscopic Characterization of Human Serum Albumin Binding with Cyclobenzaprine Hydrochloride: Insights from Biophysical and Approaches. <i>International Journal of Molecular Sciences</i> , <b>2019</b> , 20,	6.3	23
41	ASK1 and its role in cardiovascular and other disorders: available treatments and future prospects. <i>Expert Review of Proteomics</i> , <b>2019</b> , 16, 857-870	4.2	4
40	Identification of High-Affinity Inhibitors of Cyclin-Dependent Kinase 2 Towards Anticancer Therapy. <i>Molecules</i> , <b>2019</b> , 24,	4.8	26

39	Impact of Citral and Phloretin, Alone and in Combination, on Major Virulence Traits of. <i>Molecules</i> , <b>2019</b> , 24,	4.8	8
38	Transthyretin Maintains Muscle Homeostasis Through the Novel Shuttle Pathway of Thyroid Hormones During Myoblast Differentiation. <i>Cells</i> , <b>2019</b> , 8,	7.9	5
37	Interfering PLD1-PED/PEA15 interaction using self-inhibitory peptides: An study to discover novel therapeutic candidates against type 2 diabetes. <i>Saudi Journal of Biological Sciences</i> , <b>2019</b> , 26, 160-164	4	2
36	Efficacy of a novel bacteriocin isolated from <i>Lysinibacillus</i> sp. against <i>Bacillus pumilus</i> . <i>LWT - Food Science and Technology</i> , <b>2019</b> , 102, 260-267	5.4	7
35	Enzyme targeting strategies for prevention and treatment of cancer: Implications for cancer therapy. <i>Seminars in Cancer Biology</i> , <b>2019</b> , 56, 1-11	12.7	48
34	Binding of Tolperisone Hydrochloride with Human Serum Albumin: Effects on the Conformation, Thermodynamics, and Activity of HSA. <i>Molecular Pharmaceutics</i> , <b>2018</b> , 15, 1445-1456	5.6	127
33	Peptide based therapeutics and their use for the treatment of neurodegenerative and other diseases. <i>Biomedicine and Pharmacotherapy</i> , <b>2018</b> , 103, 574-581	7.5	48
32	Fibromodulin and regulation of the intricate balance between myoblast differentiation to myocytes or adipocyte-like cells. <i>FASEB Journal</i> , <b>2018</b> , 32, 768-781	0.9	24
31	Role of Azoles in Cancer Prevention and Treatment: Present and Future Perspectives. <i>Anti-Cancer Agents in Medicinal Chemistry</i> , <b>2018</b> , 18, 46-56	2.2	15
30	Nanoparticle-Based Drugs: A Potential Armamentarium of Effective Anti-Cancer Therapies. <i>Current Drug Metabolism</i> , <b>2018</b> , 19, 839-846	3.5	14
29	Protein-protein Interactions and their Role in Various Diseases and their Prediction Techniques. <i>Current Protein and Peptide Science</i> , <b>2018</b> , 19, 948-957	2.8	21
28	Computer Aided Drug Design and its Application to the Development of Potential Drugs for Neurodegenerative Disorders. <i>Current Neuropharmacology</i> , <b>2018</b> , 16, 740-748	7.6	40
27	Seed Extract of and Its Constituent Bakuchiol Impairs AHL-Based Quorum Sensing and Biofilm Formation in Food- and Human-Related Pathogens. <i>Frontiers in Cellular and Infection Microbiology</i> , <b>2018</b> , 8, 351	5.9	15
26	Low Temperature Synthesis of Superparamagnetic Iron Oxide (FeO) Nanoparticles and Their ROS Mediated Inhibition of Biofilm Formed by Food-Associated Bacteria. <i>Frontiers in Microbiology</i> , <b>2018</b> , 9, 2567	5.7	34
25	Virtual screening of natural anti-filarial compounds against glutathione-S-transferase of <i>Brugia malayi</i> and <i>Wuchereria bancrofti</i> . <i>Cellular and Molecular Biology</i> , <b>2018</b> , 64, 69-73	1.1	4
24	Eugenol inhibits quorum sensing and biofilm of toxigenic MRSA strains isolated from food handlers employed in Saudi Arabia. <i>Biotechnology and Biotechnological Equipment</i> , <b>2017</b> , 31, 387-396	1.6	30
23	Binding of erucic acid with human serum albumin using a spectroscopic and molecular docking study. <i>International Journal of Biological Macromolecules</i> , <b>2017</b> , 105, 1572-1580	7.9	119
22	Biophysical Study on the Interaction between Eperisone Hydrochloride and Human Serum Albumin Using Spectroscopic, Calorimetric, and Molecular Docking Analyses. <i>Molecular Pharmaceutics</i> , <b>2017</b> , 14, 1656-1665	5.6	141

21	Matrix gla protein: An extracellular matrix protein regulates myostatin expression in the muscle developmental program. <i>Life Sciences</i> , <b>2017</b> , 172, 55-63	6.8	17
20	The effect of Benzothiazolone-2 on the expression of Metallothionein-3 in modulating Alzheimer's disease. <i>Brain and Behavior</i> , <b>2017</b> , 7, e00799	3.4	11
19	Methylglyoxal and Advanced Glycation End products: Insight of the regulatory machinery affecting the myogenic program and of its modulation by natural compounds. <i>Scientific Reports</i> , <b>2017</b> , 7, 5916	4.9	29
18	Protein Modeling and Molecular Dynamics Simulation of Cloned Regucalcin (RGN) Gene from <i>Bubalus bubalis</i> . <i>Combinatorial Chemistry and High Throughput Screening</i> , <b>2017</b> , 20, 186-192	1.3	3
17	<i>Gymnema sylvestre</i> for Diabetes: From Traditional Herb to Future's Therapeutic. <i>Current Pharmaceutical Design</i> , <b>2017</b> , 23, 1667-1676	3.3	14
16	Commonalities in Biological Pathways, Genetics, and Cellular Mechanism between Alzheimer Disease and Other Neurodegenerative Diseases: An In Silico-Updated Overview. <i>Current Alzheimer Research</i> , <b>2017</b> , 14, 1190-1197	3	26
15	Identification of common therapeutic targets for selected neurodegenerative disorders: An in silico approach. <i>Journal of Computational Science</i> , <b>2016</b> , 17, 292-306	3.4	8
14	Broad-spectrum inhibition of AHL-regulated virulence factors and biofilms by sub-inhibitory concentrations of ceftazidime. <i>RSC Advances</i> , <b>2016</b> , 6, 27952-27962	3.7	26
13	Computer Aided Drug Design: Success and Limitations. <i>Current Pharmaceutical Design</i> , <b>2016</b> , 22, 572-81	3.3	155
12	Fibromodulin: a master regulator of myostatin controlling progression of satellite cells through a myogenic program. <i>FASEB Journal</i> , <b>2016</b> , 30, 2708-19	0.9	40
11	Virtual screening, ADMET profiling, molecular docking and dynamics approaches to search for potent selective natural molecules based inhibitors against metallothionein-III to study Alzheimer's disease. <i>Methods</i> , <b>2015</b> , 83, 105-10	4.6	28
10	Implication of Caspase-3 as a Common Therapeutic Target for Multineurodegenerative Disorders and Its Inhibition Using Nonpeptidyl Natural Compounds. <i>BioMed Research International</i> , <b>2015</b> , 2015, 379817	3	36
9	Improved efficiency and stability of secnidazole - An ideal delivery system. <i>Saudi Journal of Biological Sciences</i> , <b>2015</b> , 22, 42-9	4	13
8	Insight into the effect of inhibitor resistant S130G mutant on physico-chemical properties of SHV type beta-lactamase: a molecular dynamics study. <i>PLoS ONE</i> , <b>2014</b> , 9, e112456	3.7	27
7	A neuroinformatics study describing molecular interaction of Cisplatin with acetylcholinesterase: a plausible cause for anticancer drug induced neurotoxicity. <i>CNS and Neurological Disorders - Drug Targets</i> , <b>2014</b> , 13, 265-70	2.6	14
6	Antioxidant and α-amylase inhibitory property of <i>phyllanthus virgatus</i> L.: an in vitro and molecular interaction study. <i>BioMed Research International</i> , <b>2013</b> , 2013, 729393	3	43
5	BLAD: a comprehensive database of widely circulated beta-lactamases. <i>Bioinformatics</i> , <b>2013</b> , 29, 2515-6	7.2	16
4	Inhibitory effect of metformin and pyridoxamine in the formation of early, intermediate and advanced glycation end-products. <i>PLoS ONE</i> , <b>2013</b> , 8, e72128	3.7	66

3	Design, synthesis, evaluation and thermodynamics of 1-substituted pyridylimidazo[1,5-a]pyridine derivatives as cysteine protease inhibitors. <i>PLoS ONE</i> , <b>2013</b> , 8, e69982	3-7	7
2	Homology modeling and docking study of recent SHV type $\beta$ -lactamses with traditional and novel inhibitors: an in silico approach to combat problem of multiple drug resistance in various infections. <i>Medicinal Chemistry Research</i> , <b>2012</b> , 21, 2229-2237	2-2	1
1	AMDD: antimicrobial drug database. <i>Genomics, Proteomics and Bioinformatics</i> , <b>2012</b> , 10, 360-3	6-5	13