

# Mohammad Hassan Baig

## List of Publications by Year in descending order

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Version: 2024-02-01

59  
papers

2,730  
citations

236925

25  
h-index

189892

50  
g-index

60  
all docs

60  
docs citations

60  
times ranked

4209  
citing authors

#	ARTICLE	IF	CITATIONS
1	Biosynthesized Zinc Oxide Nanoparticles Disrupt Established Biofilms of Pathogenic Bacteria. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 710.	2.5	23
2	Computational screening of camostat and related compounds against human TMPRSS2: A potential treatment of COVID-19. <i>Saudi Pharmaceutical Journal</i> , 2022, 30, 217-224.	2.7	7
3	Probing the interaction of Selonsertib with human serum albumin: In silico and in vitro approaches. <i>Current Topics in Medicinal Chemistry</i> , 2022, 22, .	2.1	1
4	MIF1 and MIF2 Myostatin Peptide Inhibitors as Potent Muscle Mass Regulators. <i>International Journal of Molecular Sciences</i> , 2022, 23, 4222.	4.1	7
5	Deciphering the Role of Autophagy in Treatment of Resistance Mechanisms in Glioblastoma. <i>International Journal of Molecular Sciences</i> , 2021, 22, 1318.	4.1	19
6	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> , 2021, 22, 3042.	4.1	13
7	Is PF-00835231 a Pan-SARS-CoV-2 Mpro Inhibitor? A Comparative Study. <i>Molecules</i> , 2021, 26, 1678.	3.8	18
8	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> , 2021, 28, 3152-3159.	3.8	19
9	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> , 2021, 28, 3262-3269.	3.8	12
10	Design and Synthesis of Bioinspired Benzocoumarin-Chalcones Chimeras as Potential Anti-Breast Cancer Agents. <i>ChemistrySelect</i> , 2021, 6, 8754-8765.	1.5	11
11	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> , 2021, 11, 375-387.	3.1	14
12	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> , 2021, 13, 2295.	3.3	13
13	Silk Cocoon-Derived Protein Bioinspired Gold Nanoparticles as a Formidable Anticancer Agent. <i>Journal of Biomedical Nanotechnology</i> , 2021, 17, 615-626.	1.1	15
14	Biophysical interactions, docking studies and cytotoxic potential of a novel propofol-linolenate: a multi-technique approach. <i>Journal of Biomolecular Structure and Dynamics</i> , 2020, 38, 2389-2401.	3.5	4
15	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> , 2020, 15, e0238344.	2.5	76
16	ASK1 and its role in cardiovascular and other disorders: available treatments and future prospects. <i>Expert Review of Proteomics</i> , 2019, 16, 857-870.	3.0	10
17	NeuroMuscleDB: a Database of Genes Associated with Muscle Development, Neuromuscular Diseases, Ageing, and Neurodegeneration. <i>Molecular Neurobiology</i> , 2019, 56, 5835-5843.	4.0	13
18	Mechanistic Insights into the Antimicrobial Actions of Metallic Nanoparticles and Their Implications for Multidrug Resistance. <i>International Journal of Molecular Sciences</i> , 2019, 20, 2468.	4.1	299

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19	Multi-Spectroscopic Characterization of Human Serum Albumin Binding with Cyclobenzaprine Hydrochloride: Insights from Biophysical and In Silico Approaches. <i>International Journal of Molecular Sciences</i> , 2019, 20, 662.	4.1	37
20	Identification of High-Affinity Inhibitors of Cyclin-Dependent Kinase 2 Towards Anticancer Therapy. <i>Molecules</i> , 2019, 24, 4589.	3.8	37
21	Impact of Citral and Phloretin, Alone and in Combination, on Major Virulence Traits of <i>Streptococcus pyogenes</i> . <i>Molecules</i> , 2019, 24, 4237.	3.8	22
22	Transthyretin Maintains Muscle Homeostasis through the Novel Shuttle Pathway of Thyroid Hormones during Myoblast Differentiation. <i>Cells</i> , 2019, 8, 1565.	4.1	15
23	Interfering PLD1-PED/PEA15 interaction using self-inhibitory peptides: An in silico study to discover novel therapeutic candidates against type 2 diabetes. <i>Saudi Journal of Biological Sciences</i> , 2019, 26, 160-164.	3.8	4
24	Efficacy of a novel bacteriocin isolated from <i>Lysinibacillus</i> sp. against <i>Bacillus pumilus</i> . <i>LWT - Food Science and Technology</i> , 2019, 102, 260-267.	5.2	14
25	Enzyme targeting strategies for prevention and treatment of cancer: Implications for cancer therapy. <i>Seminars in Cancer Biology</i> , 2019, 56, 1-11.	9.6	81
26	Binding of Tolperisone Hydrochloride with Human Serum Albumin: Effects on the Conformation, Thermodynamics, and Activity of HSA. <i>Molecular Pharmaceutics</i> , 2018, 15, 1445-1456.	4.6	201
27	Peptide based therapeutics and their use for the treatment of neurodegenerative and other diseases. <i>Biomedicine and Pharmacotherapy</i> , 2018, 103, 574-581.	5.6	85
28	Fibromodulin and regulation of the intricate balance between myoblast differentiation to myocytes or adipocyte-like cells. <i>FASEB Journal</i> , 2018, 32, 768-781.	0.5	41
29	Seed Extract of <i>Psoralea corylifolia</i> 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> , 2018, 8, 351.	3.9	27
30	Low Temperature Synthesis of Superparamagnetic Iron Oxide (Fe <sub>3</sub> O <sub>4</sub> ) Nanoparticles and Their ROS Mediated Inhibition of Biofilm Formed by Food-Associated Bacteria. <i>Frontiers in Microbiology</i> , 2018, 9, 2567.	3.5	47
31	Role of Azoles in Cancer Prevention and Treatment: Present and Future Perspectives. <i>Anti-Cancer Agents in Medicinal Chemistry</i> , 2018, 18, 46-56.	1.7	22
32	Nanoparticle-Based Drugs: A Potential Armamentarium of Effective Anti-Cancer Therapies. <i>Current Drug Metabolism</i> , 2018, 19, 839-846.	1.2	22
33	Protein-protein Interactions and their Role in Various Diseases and their Prediction Techniques. <i>Current Protein and Peptide Science</i> , 2018, 19, 948-957.	1.4	45
34	Computer Aided Drug Design and its Application to the Development of Potential Drugs for Neurodegenerative Disorders. <i>Current Neuropharmacology</i> , 2018, 16, 740-748.	2.9	98
35	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> , 2018, 64, 69-73.	0.9	6
36	Eugenol inhibits quorum sensing and biofilm of toxigenic MRSA strains isolated from food handlers employed in Saudi Arabia. <i>Biotechnology and Biotechnological Equipment</i> , 2017, 31, 387-396.	1.3	43

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37	Binding of erucic acid with human serum albumin using a spectroscopic and molecular docking study. International Journal of Biological Macromolecules, 2017, 105, 1572-1580.	7.5	178
38	Biophysical Study on the Interaction between Eperisone Hydrochloride and Human Serum Albumin Using Spectroscopic, Calorimetric, and Molecular Docking Analyses. Molecular Pharmaceutics, 2017, 14, 1656-1665.	4.6	214
39	Matrix gla protein: An extracellular matrix protein regulates myostatin expression in the muscle developmental program. Life Sciences, 2017, 172, 55-63.	4.3	32
40	The effect of Benzothiazolone on the expression of Metallothionein in modulating Alzheimer's disease. Brain and Behavior, 2017, 7, e00799.	2.2	11
41	Methylglyoxal and Advanced Glycation End products: Insight of the regulatory machinery affecting the myogenic program and of its modulation by natural compounds. Scientific Reports, 2017, 7, 5916.	3.3	50
42	Protein Modeling and Molecular Dynamics Simulation of Cloned Regucalcin (RGN) Gene from Bubalus bubalis. Combinatorial Chemistry and High Throughput Screening, 2017, 20, 186-192.	1.1	4
43	Gymnema sylvestre for Diabetes: From Traditional Herb to Future's Therapeutic. Current Pharmaceutical Design, 2017, 23, 1667-1676.	1.9	27
44	Commonalities in Biological Pathways, Genetics, and Cellular Mechanism between Alzheimer Disease and Other Neurodegenerative Diseases: An In Silico-Updated Overview. Current Alzheimer Research, 2017, 14, 1190-1197.	1.4	39
45	Fibromodulin: a master regulator of myostatin controlling progression of satellite cells through a myogenic program. FASEB Journal, 2016, 30, 2708-2719.	0.5	63
46	Identification of common therapeutic targets for selected neurodegenerative disorders: An in silico approach. Journal of Computational Science, 2016, 17, 292-306.	2.9	11
47	Broad-spectrum inhibition of AHL-regulated virulence factors and biofilms by sub-inhibitory concentrations of ceftazidime. RSC Advances, 2016, 6, 27952-27962.	3.6	30
48	Computer Aided Drug Design: Success and Limitations. Current Pharmaceutical Design, 2016, 22, 572-581.	1.9	281
49	Implication of Caspase-3 as a Common Therapeutic Target for Multineurodegenerative Disorders and Its Inhibition Using Nonpeptidyl Natural Compounds. BioMed Research International, 2015, 2015, 1-9.	1.9	53
50	Improved efficiency and stability of secnidazole – An ideal delivery system. Saudi Journal of Biological Sciences, 2015, 22, 42-49.	3.8	22
51	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. Methods, 2015, 83, 105-110.	3.8	34
52	Insight into the Effect of Inhibitor Resistant S130G Mutant on Physico-Chemical Properties of SHV Type Beta-Lactamase: A Molecular Dynamics Study. PLoS ONE, 2014, 9, e112456.	2.5	56
53	A Neuroinformatics Study Describing Molecular Interaction of Cisplatin with Acetylcholinesterase: A Plausible Cause for Anticancer Drug Induced Neurotoxicity. CNS and Neurological Disorders - Drug Targets, 2014, 13, 265-270.	1.4	16
54	Antioxidant and $\alpha$ -Amylase Inhibitory Property of <i>Phyllanthus virgatus</i> L.: An In Vitro and Molecular Interaction Study. BioMed Research International, 2013, 2013, 1-12.	1.9	58

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55	BLAD: A comprehensive database of widely circulated beta-lactamases. <i>Bioinformatics</i> , 2013, 29, 2515-2516.	4.1	20
56	Inhibitory Effect of Metformin and Pyridoxamine in the Formation of Early, Intermediate and Advanced Glycation End-Products. <i>PLoS ONE</i> , 2013, 8, e72128.	2.5	81
57	Design, Synthesis, Evaluation and Thermodynamics of 1-Substituted Pyridylimidazo[1,5-a]Pyridine Derivatives as Cysteine Protease Inhibitors. <i>PLoS ONE</i> , 2013, 8, e69982.	2.5	10
58	Homology modeling and docking study of recent SHV type $\beta$ -lactamases with traditional and novel inhibitors: an in silico approach to combat problem of multiple drug resistance in various infections. <i>Medicinal Chemistry Research</i> , 2012, 21, 2229-2237.	2.4	2
59	AMDD: Antimicrobial Drug Database. <i>Genomics, Proteomics and Bioinformatics</i> , 2012, 10, 360-363.	6.9	17