

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	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
2	Computer Aided Drug Design: Success and Limitations. <i>Current Pharmaceutical Design</i> , 2016, 22, 572-581.	1.9	281
3	Biophysical Study on the Interaction between Eperisone Hydrochloride and Human Serum Albumin Using Spectroscopic, Calorimetric, and Molecular Docking Analyses. <i>Molecular Pharmaceutics</i> , 2017, 14, 1656-1665.	4.6	214
4	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
5	Binding of erucic acid with human serum albumin using a spectroscopic and molecular docking study. <i>International Journal of Biological Macromolecules</i> , 2017, 105, 1572-1580.	7.5	178
6	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
7	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
8	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
9	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
10	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
11	Fibromodulin: a master regulator of myostatin controlling progression of satellite cells through a myogenic program. <i>FASEB Journal</i> , 2016, 30, 2708-2719.	0.5	63
12	Antioxidant and α -Amylase Inhibitory Property of <i>Phyllanthus virgatus</i> L.: An In Vitro and Molecular Interaction Study. <i>BioMed Research International</i> , 2013, 2013, 1-12.	1.9	58
13	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> , 2014, 9, e112456.	2.5	56
14	Implication of Caspase-3 as a Common Therapeutic Target for Multineurodegenerative Disorders and Its Inhibition Using Nonpeptidyl Natural Compounds. <i>BioMed Research International</i> , 2015, 2015, 1-9.	1.9	53
15	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> , 2017, 7, 5916.	3.3	50
16	Low Temperature Synthesis of Superparamagnetic Iron Oxide (Fe ₃ O ₄) Nanoparticles and Their ROS Mediated Inhibition of Biofilm Formed by Food-Associated Bacteria. <i>Frontiers in Microbiology</i> , 2018, 9, 2567.	3.5	47
17	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
18	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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19	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
20	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> , 2017, 14, 1190-1197.	1.4	39
21	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
22	Identification of High-Affinity Inhibitors of Cyclin-Dependent Kinase 2 Towards Anticancer Therapy. <i>Molecules</i> , 2019, 24, 4589.	3.8	37
23	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> , 2015, 83, 105-110.	3.8	34
24	Matrix gla protein: An extracellular matrix protein regulates myostatin expression in the muscle developmental program. <i>Life Sciences</i> , 2017, 172, 55-63.	4.3	32
25	Broad-spectrum inhibition of AHL-regulated virulence factors and biofilms by sub-inhibitory concentrations of ceftazidime. <i>RSC Advances</i> , 2016, 6, 27952-27962.	3.6	30
26	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
27	<i>Gymnema sylvestre</i> for Diabetes: From Traditional Herb to Future's Therapeutic. <i>Current Pharmaceutical Design</i> , 2017, 23, 1667-1676.	1.9	27
28	Biosynthesized Zinc Oxide Nanoparticles Disrupt Established Biofilms of Pathogenic Bacteria. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 710.	2.5	23
29	Improved efficiency and stability of secnidazole – An ideal delivery system. <i>Saudi Journal of Biological Sciences</i> , 2015, 22, 42-49.	3.8	22
30	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
31	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
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	BLAD: A comprehensive database of widely circulated beta-lactamases. <i>Bioinformatics</i> , 2013, 29, 2515-2516.	4.1	20
34	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
35	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
36	Is PF-00835231 a Pan-SARS-CoV-2 Mpro Inhibitor? A Comparative Study. <i>Molecules</i> , 2021, 26, 1678.	3.8	18

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37	AMDD: Antimicrobial Drug Database. <i>Genomics, Proteomics and Bioinformatics</i> , 2012, 10, 360-363.	6.9	17
38	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> , 2014, 13, 265-270.	1.4	16
39	Transthyretin Maintains Muscle Homeostasis through the Novel Shuttle Pathway of Thyroid Hormones during Myoblast Differentiation. <i>Cells</i> , 2019, 8, 1565.	4.1	15
40	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
41	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
42	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
43	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
44	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
45	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
46	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
47	Identification of common therapeutic targets for selected neurodegenerative disorders: An in silico approach. <i>Journal of Computational Science</i> , 2016, 17, 292-306.	2.9	11
48	The effect of Benzothiazolone on the expression of Metallothionein in modulating Alzheimer's disease. <i>Brain and Behavior</i> , 2017, 7, e00799.	2.2	11
49	Design and Synthesis of Bioinspired Benzocoumarin-Chalcones Chimeras as Potential Anti-Breast Cancer Agents. <i>ChemistrySelect</i> , 2021, 6, 8754-8765.	1.5	11
50	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
51	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
52	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
53	MIF1 and MIF2 Myostatin Peptide Inhibitors as Potent Muscle Mass Regulators. <i>International Journal of Molecular Sciences</i> , 2022, 23, 4222.	4.1	7
54	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

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55	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
56	Interfering PLD1-PED/PEA15 interaction using self-inhibitory peptides: An in silico study to discover novel therapeutic candidates against type 2 diabetes. Saudi Journal of Biological Sciences, 2019, 26, 160-164.	3.8	4
57	Biophysical interactions, docking studies and cytotoxic potential of a novel propofol-linolenate: a multi-technique approach. Journal of Biomolecular Structure and Dynamics, 2020, 38, 2389-2401.	3.5	4
58	Homology modeling and docking study of recent SHV type β -lactamases with traditional and novel inhibitors: an in silico approach to combat problem of multiple drug resistance in various infections. Medicinal Chemistry Research, 2012, 21, 2229-2237.	2.4	2
59	Probing the interaction of Selonsertib with human serum albumin: In silico and in vitro approaches. Current Topics in Medicinal Chemistry, 2022, 22, .	2.1	1