

Muhammad Usman Mirza

List of Publications by Year in descending order

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Version: 2024-02-01

50
papers

1,665
citations

304368

22
h-index

315357

38
g-index

57
all docs

57
docs citations

57
times ranked

2269
citing authors

#	ARTICLE	IF	CITATIONS
1	Structural elucidation of SARS-CoV-2 vital proteins: Computational methods reveal potential drug candidates against main protease, Nsp12 polymerase and Nsp13 helicase. <i>Journal of Pharmaceutical Analysis</i> , 2020, 10, 320-328.	2.4	207
2	Molecular Dynamics Simulations in Drug Discovery and Pharmaceutical Development. <i>Processes</i> , 2021, 9, 71.	1.3	162
3	Loss-of-function mutations in ADCY3 cause monogenic severe obesity. <i>Nature Genetics</i> , 2018, 50, 175-179.	9.4	122
4	Pharmacoinformatics and molecular dynamics simulation studies reveal potential covalent and FDA-approved inhibitors of SARS-CoV-2 main protease 3CL ^{pro} . <i>Journal of Biomolecular Structure and Dynamics</i> , 2021, 39, 4936-4948.	2.0	103
5	Towards peptide vaccines against Zika virus: Immunoinformatics combined with molecular dynamics simulations to predict antigenic epitopes of Zika viral proteins. <i>Scientific Reports</i> , 2016, 6, 37313.	1.6	98
6	Designing multi-epitope vaccine against <i>Staphylococcus aureus</i> by employing subtractive proteomics, reverse vaccinology and immuno-informatics approaches. <i>Computers in Biology and Medicine</i> , 2021, 132, 104389.	3.9	73
7	Discovery of human coronaviruses pan-papain-like protease inhibitors using computational approaches. <i>Journal of Pharmaceutical Analysis</i> , 2020, 10, 546-559.	2.4	67
8	Antigenic Peptide Prediction From E6 and E7 Oncoproteins of HPV Types 16 and 18 for Therapeutic Vaccine Design Using Immunoinformatics and MD Simulation Analysis. <i>Frontiers in Immunology</i> , 2018, 9, 3000.	2.2	44
9	Integrated Computational Approach for Virtual Hit Identification against Ebola Viral Proteins VP35 and VP40. <i>International Journal of Molecular Sciences</i> , 2016, 17, 1748.	1.8	37
10	Medicinal plant phytochemicals and their inhibitory activities against pancreatic lipase: molecular docking combined with molecular dynamics simulation approach. <i>Natural Product Research</i> , 2018, 32, 1123-1129.	1.0	36
11	Perspectives towards antiviral drug discovery against Ebola virus. <i>Journal of Medical Virology</i> , 2019, 91, 2029-2048.	2.5	35
12	Development of a Novel Multi-Epitope Vaccine Against Crimean-Congo Hemorrhagic Fever Virus: An Integrated Reverse Vaccinology, Vaccine Informatics and Biophysics Approach. <i>Frontiers in Immunology</i> , 2021, 12, 669812.	2.2	34
13	In Vitro Antidiabetic, Anti-Obesity and Antioxidant Analysis of <i>Ocimum basilicum</i> Aerial Biomass and in Silico Molecular Docking Simulations with Alpha-Amylase and Lipase Enzymes. <i>Biology</i> , 2019, 8, 92.	1.3	32
14	Identification of novel human USP2 inhibitor and its putative role in treatment of COVID-19 by inhibiting SARS-CoV-2 papain-like (PLpro) protease. <i>Computational Biology and Chemistry</i> , 2020, 89, 107376.	1.1	31
15	Structure-based virtual screening and molecular docking for the identification of potential multi-targeted inhibitors against breast cancer. <i>Breast Cancer: Targets and Therapy</i> , 2017, Volume 9, 447-459.	1.0	30
16	Quantification of Berberine in <i>Berberis vulgaris</i> L. Root Extract and Its Curative and Prophylactic Role in Cisplatin-Induced In Vivo Toxicity and In Vitro Cytotoxicity. <i>Antioxidants</i> , 2019, 8, 185.	2.2	29
17	In silico structural elucidation of RNA-dependent RNA polymerase towards the identification of potential Crimean-Congo Hemorrhagic Fever Virus inhibitors. <i>Scientific Reports</i> , 2019, 9, 6809.	1.6	26
18	Inhibition of Oncogenic Kinases: An In Vitro Validated Computational Approach Identified Potential Multi-Target Anticancer Compounds. <i>Biomolecules</i> , 2019, 9, 124.	1.8	26

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19	In silico Structure-based Identification of Novel Acetylcholinesterase Inhibitors Against Alzheimer's Disease. <i>CNS and Neurological Disorders - Drug Targets</i> , 2018, 17, 54-68.	0.8	24
20	Glycyrrhetic acid and E.resveratrolside act as potential plant derived compounds against dopamine receptor D3 for Parkinson's disease: a pharmacoinformatics study. <i>Drug Design, Development and Therapy</i> , 2015, 9, 187.	2.0	23
21	Pharmacoinformatics approach for investigation of alternative potential hepatitis C virus nonstructural protein 5B inhibitors. <i>Drug Design, Development and Therapy</i> , 2015, 9, 1825.	2.0	23
22	Rational design of an XNA ligase through docking of unbound nucleic acids to toroidal proteins. <i>Nucleic Acids Research</i> , 2019, 47, 7130-7142.	6.5	23
23	Discovery of HIV entry inhibitors via a hybrid CXCR4 and CCR5 receptor pharmacophore-based virtual screening approach. <i>European Journal of Pharmaceutical Sciences</i> , 2020, 155, 105537.	1.9	22
24	New naphthalene derivative for cost-effective AChE inhibitors for Alzheimer's treatment: In silico identification, in vitro and in vivo validation. <i>Computational Biology and Chemistry</i> , 2020, 89, 107378.	1.1	20
25	Deleterious Variants in WNT10A, EDAR, and EDA Causing Isolated and Syndromic Tooth Agenesis: A Structural Perspective from Molecular Dynamics Simulations. <i>International Journal of Molecular Sciences</i> , 2019, 20, 5282.	1.8	19
26	A Putative Prophylactic Solution for COVID-19: Development of Novel Multi-epitope Vaccine Candidate against SARS-COV-2 by Comprehensive Immunoinformatic and Molecular Modelling Approach. <i>Biology</i> , 2020, 9, 296.	1.3	17
27	Structural probing of HapR to identify potent phytochemicals to control <i>Vibrio cholera</i> through integrated computational approaches. <i>Computers in Biology and Medicine</i> , 2021, 138, 104929.	3.9	17
28	Isolation of Antidiabetic Withanolides from <i>Withania coagulans</i> Dunal and Their In Vitro and In Silico Validation. <i>Biology</i> , 2020, 9, 197.	1.3	16
29	Effect of <i>Berberis vulgaris</i> L. root extract on ifosfamide-induced in vivo toxicity and in vitro cytotoxicity. <i>Scientific Reports</i> , 2021, 11, 1708.	1.6	16
30	Docking Studies reveal Phytochemicals as the long searched Anticancer Drugs for Breast Cancer. <i>International Journal of Computer Applications</i> , 2013, 67, 1-5.	0.2	14
31	Molecular docking and in silico ADMET studies of silibinin and glycyrrhetic acid anti-inflammatory activity. <i>Tropical Journal of Pharmaceutical Research</i> , 2017, 16, 67.	0.2	13
32	Discovery of novel Hepatitis C virus inhibitor targeting multiple allosteric sites of NS5B polymerase. <i>Infection, Genetics and Evolution</i> , 2020, 84, 104371.	1.0	13
33	Structural Elucidation of Rift Valley Fever Virus L Protein towards the Discovery of Its Potential Inhibitors. <i>Pharmaceuticals</i> , 2022, 15, 659.	1.7	13
34	Discovery of Rift Valley fever virus natural pan-inhibitors by targeting its multiple key proteins through computational approaches. <i>Scientific Reports</i> , 2022, 12, .	1.6	13
35	Mutagenesis of DsbA is Crucial for the Signal Recognition Particle Mechanism in <i>Escherichia coli</i> : Insights from Molecular Dynamics Simulations. <i>Biomolecules</i> , 2019, 9, 133.	1.8	12
36	New isolate from <i>Salvinia molesta</i> with antioxidant and urease inhibitory activity. <i>Drug Development Research</i> , 2021, 82, 1169-1181.	1.4	12

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37	In silico and in vivo characterization of cabralealactone, solasodin and salvadorin in a rat model: potential anti-inflammatory agents. <i>Drug Design, Development and Therapy</i> , 2018, Volume 12, 1431-1443.	2.0	11
38	A novel pathogenic missense variant in <i>CNNM4</i> underlying Jalili syndrome: Insights from molecular dynamics simulations. <i>Molecular Genetics & Genomic Medicine</i> , 2019, 7, e902.	0.6	11
39	Impact of IL-17F 7488T/C Functional Polymorphism on Progressive Rheumatoid Arthritis: Novel Insight from the Molecular Dynamic Simulations. <i>Immunological Investigations</i> , 2021, 50, 416-426.	1.0	11
40	Probing the structural basis of Citrus phytochrome B using computational modelling and molecular dynamics simulation approaches. <i>Journal of Molecular Liquids</i> , 2021, 340, 116895.	2.3	11
41	Fragment-based in silico design of SARS-CoV-2 main protease inhibitors. <i>Chemical Biology and Drug Design</i> , 2021, 98, 604-619.	1.5	10
42	Toxicity Evaluation of the Naphthalen-2-yl 3,5-Dinitrobenzoate: A Drug Candidate for Alzheimer Disease. <i>Frontiers in Pharmacology</i> , 2021, 12, 607026.	1.6	9
43	Folate Conjugated Polyethylene Glycol Probe for Tumor-Targeted Drug Delivery of 5-Fluorouracil. <i>Molecules</i> , 2022, 27, 1780.	1.7	7
44	The discovery of Zika virus NS2B-NS3 inhibitors with antiviral activity via an integrated virtual screening approach. <i>European Journal of Pharmaceutical Sciences</i> , 2022, 175, 106220.	1.9	7
45	Enhanced Thermostability and Enzymatic Activity of cel6A Variants from <i>Thermobifida fusca</i> by Empirical Domain Engineering. <i>Biology</i> , 2020, 9, 214.	1.3	6
46	Acute Oral, Subacute, and Developmental Toxicity Profiling of Naphthalene 2-Yl, 2-Chloro, 5-Nitrobenzoate: Assessment Based on Stress Response, Toxicity, and Adverse Outcome Pathways. <i>Frontiers in Pharmacology</i> , 2021, 12, 810704.	1.6	6
47	Bioassay Directed Isolation, Biological Evaluation and in Silico Studies of New Isolates from <i>Pteris cretica</i> L.. <i>Antioxidants</i> , 2019, 8, 231.	2.2	5
48	Small Ubiquitin-Like Modifier Protein 3 Enhances the Solubilization of Human Bone Morphogenetic Protein 2 in <i>E. coli</i> . <i>Applied Biochemistry and Biotechnology</i> , 2018, 186, 256-270.	1.4	4
49	Toxicological Screening of 4-Phenyl-3,4-dihydrobenzo[<i>h</i>]quinolin-2(1 <i>H</i>)-one: A New Potential Candidate for Alzheimer's Treatment. <i>ACS Omega</i> , 2021, 6, 10897-10909.	1.6	4
50	Engineering processive cellulase of <i>Clostridium thermocellum</i> to divulge the role of the carbohydrate-binding module. <i>Biotechnology and Applied Biochemistry</i> , 2023, 70, 290-305.	1.4	2