

Muhammad Usman Mirza

List of Publications by Year in descending order

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Version: 2024-02-01

50
papers

1,665
citations

304743

22
h-index

315739

38
g-index

57
all docs

57
docs citations

57
times ranked

2269
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 1 | 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. | 3.1 | 2 |
| 2 | Folate Conjugated Polyethylene Glycol Probe for Tumor-Targeted Drug Delivery of 5-Fluorouracil. <i>Molecules</i> , 2022, 27, 1780. | 3.8 | 7 |
| 3 | Structural Elucidation of Rift Valley Fever Virus L Protein towards the Discovery of Its Potential Inhibitors. <i>Pharmaceuticals</i> , 2022, 15, 659. | 3.8 | 13 |
| 4 | 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. | 4.0 | 7 |
| 5 | Discovery of Rift Valley fever virus natural pan-inhibitors by targeting its multiple key proteins through computational approaches. <i>Scientific Reports</i> , 2022, 12, . | 3.3 | 13 |
| 6 | 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. | 3.5 | 103 |
| 7 | 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. | 2.0 | 11 |
| 8 | Effect of Berberis vulgaris L. root extract on ifosfamide-induced in vivo toxicity and in vitro cytotoxicity. <i>Scientific Reports</i> , 2021, 11, 1708. | 3.3 | 16 |
| 9 | 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. | 3.5 | 4 |
| 10 | Designing multi-epitope vaccine against Staphylococcus aureus by employing subtractive proteomics, reverse vaccinology and immuno-informatics approaches. <i>Computers in Biology and Medicine</i> , 2021, 132, 104389. | 7.0 | 73 |
| 11 | Toxicity Evaluation of the Naphthalen-2-yl 3,5-Dinitrobenzoate: A Drug Candidate for Alzheimer Disease. <i>Frontiers in Pharmacology</i> , 2021, 12, 607026. | 3.5 | 9 |
| 12 | New isolate from <i>Salvinia molesta</i> with antioxidant and urease inhibitory activity. <i>Drug Development Research</i> , 2021, 82, 1169-1181. | 2.9 | 12 |
| 13 | 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. | 4.8 | 34 |
| 14 | Fragment-based in silico design of SARS-CoV-2 main protease inhibitors. <i>Chemical Biology and Drug Design</i> , 2021, 98, 604-619. | 3.2 | 10 |
| 15 | 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. | 4.9 | 11 |
| 16 | Molecular Dynamics Simulations in Drug Discovery and Pharmaceutical Development. <i>Processes</i> , 2021, 9, 71. | 2.8 | 162 |
| 17 | Structural probing of HapR to identify potent phytochemicals to control Vibrio cholera through integrated computational approaches. <i>Computers in Biology and Medicine</i> , 2021, 138, 104929. | 7.0 | 17 |
| 18 | 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. | 3.5 | 6 |

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|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 19 | A Putative Prophylactic Solution for COVID-19: Development of Novel Multiepitope Vaccine Candidate against SARS-CoV-2 by Comprehensive Immunoinformatic and Molecular Modelling Approach. <i>Biology</i> , 2020, 9, 296. | 2.8 | 17 |
| 20 | 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. | 2.3 | 31 |
| 21 | 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. | 4.0 | 22 |
| 22 | Discovery of human coronaviruses pan-papain-like protease inhibitors using computational approaches. <i>Journal of Pharmaceutical Analysis</i> , 2020, 10, 546-559. | 5.3 | 67 |
| 23 | Enhanced Thermostability and Enzymatic Activity of cel6A Variants from <i>Thermobifida fusca</i> by Empirical Domain Engineering. <i>Biology</i> , 2020, 9, 214. | 2.8 | 6 |
| 24 | Isolation of Antidiabetic Withanolides from <i>Withania coagulans</i> Dunal and Their In Vitro and In Silico Validation. <i>Biology</i> , 2020, 9, 197. | 2.8 | 16 |
| 25 | 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. | 2.3 | 20 |
| 26 | Discovery of novel Hepatitis C virus inhibitor targeting multiple allosteric sites of NS5B polymerase. <i>Infection, Genetics and Evolution</i> , 2020, 84, 104371. | 2.3 | 13 |
| 27 | 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. | 5.3 | 207 |
| 28 | Rational design of an XNA ligase through docking of unbound nucleic acids to toroidal proteins. <i>Nucleic Acids Research</i> , 2019, 47, 7130-7142. | 14.5 | 23 |
| 29 | Bioassay Directed Isolation, Biological Evaluation and in Silico Studies of New Isolates from <i>Pteris cretica</i> L.. <i>Antioxidants</i> , 2019, 8, 231. | 5.1 | 5 |
| 30 | 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. | 1.2 | 11 |
| 31 | 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. | 5.1 | 29 |
| 32 | 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. | 4.1 | 19 |
| 33 | 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. | 4.0 | 12 |
| 34 | 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. | 3.3 | 26 |
| 35 | Inhibition of Oncogenic Kinases: An In Vitro Validated Computational Approach Identified Potential Multi-Target Anticancer Compounds. <i>Biomolecules</i> , 2019, 9, 124. | 4.0 | 26 |
| 36 | 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. | 2.8 | 32 |

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|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 37 | Perspectives towards antiviral drug discovery against Ebola virus. Journal of Medical Virology, 2019, 91, 2029-2048. | 5.0 | 35 |
| 38 | Loss-of-function mutations in ADCY3 cause monogenic severe obesity. Nature Genetics, 2018, 50, 175-179. | 21.4 | 122 |
| 39 | Small Ubiquitin-Like Modifier Protein 3 Enhances the Solubilization of Human Bone Morphogenetic Protein 2 in E. coli. Applied Biochemistry and Biotechnology, 2018, 186, 256-270. | 2.9 | 4 |
| 40 | Medicinal plant phytochemicals and their inhibitory activities against pancreatic lipase: molecular docking combined with molecular dynamics simulation approach. Natural Product Research, 2018, 32, 1123-1129. | 1.8 | 36 |
| 41 | Antigenic Peptide Prediction From E6 and E7 Oncoproteins of HPV Types 16 and 18 for Therapeutic Vaccine Design Using Immunoinformatics and MD Simulation Analysis. Frontiers in Immunology, 2018, 9, 3000. | 4.8 | 44 |
| 42 | In silico Structure-based Identification of Novel Acetylcholinesterase Inhibitors Against Alzheimer's Disease. CNS and Neurological Disorders - Drug Targets, 2018, 17, 54-68. | 1.4 | 24 |
| 43 | In silico and in vivo characterization of cabralealactone, solasodin and salvadorin in a rat model: potential anti-inflammatory agents. Drug Design, Development and Therapy, 2018, Volume 12, 1431-1443. | 4.3 | 11 |
| 44 | Molecular docking and in silico ADMET studies of silibinin and glycyrrhetic acid anti-inflammatory activity. Tropical Journal of Pharmaceutical Research, 2017, 16, 67. | 0.3 | 13 |
| 45 | Structure-based virtual screening and molecular docking for the identification of potential multi-targeted inhibitors against breast cancer. Breast Cancer: Targets and Therapy, 2017, Volume 9, 447-459. | 1.8 | 30 |
| 46 | Integrated Computational Approach for Virtual Hit Identification against Ebola Viral Proteins VP35 and VP40. International Journal of Molecular Sciences, 2016, 17, 1748. | 4.1 | 37 |
| 47 | Towards peptide vaccines against Zika virus: Immunoinformatics combined with molecular dynamics simulations to predict antigenic epitopes of Zika viral proteins. Scientific Reports, 2016, 6, 37313. | 3.3 | 98 |
| 48 | Glycyrrhetic acid and E.resveratrolside act as potential plant derived compounds against dopamine receptor D3 for Parkinson's disease: a pharmacoinformatics study. Drug Design, Development and Therapy, 2015, 9, 187. | 4.3 | 23 |
| 49 | Pharmacoinformatics approach for investigation of alternative potential hepatitis C virus nonstructural protein 5B inhibitors. Drug Design, Development and Therapy, 2015, 9, 1825. | 4.3 | 23 |
| 50 | Docking Studies reveal Phytochemicals as the long searched Anticancer Drugs for Breast Cancer. International Journal of Computer Applications, 2013, 67, 1-5. | 0.2 | 14 |