

# Muthukumaran Jayaraman

## List of Publications by Year in descending order

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55  
papers

788  
citations

623574

14  
h-index

552653

26  
g-index

56  
all docs

56  
docs citations

56  
times ranked

1280  
citing authors

#	ARTICLE	IF	CITATIONS
1	Targeting SARS-CoV-2: a systematic drug repurposing approach to identify promising inhibitors against 3C-like proteinase and 2â€²-O-ribose methyltransferase. <i>Journal of Biomolecular Structure and Dynamics</i> , 2021, 39, 2679-2692.	2.0	209
2	Synthesis, in vitro and in silico antimalarial activity of 7-chloroquinoline and 4H-chromene conjugates. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2015, 25, 4657-4663.	1.0	41
3	A comprehensive review on promising anti-viral therapeutic candidates identified against main protease from SARS-CoV-2 through various computational methods. <i>Journal of Genetic Engineering and Biotechnology</i> , 2020, 18, 69.	1.5	41
4	Molecular interactions of ceftazidime with bovine serum albumin: Spectroscopic, molecular docking, and DFT analyses. <i>Journal of Molecular Liquids</i> , 2020, 313, 113490.	2.3	40
5	Molecular interactions of cefoperazone with bovine serum albumin: Extensive experimental and computational investigations. <i>Journal of Molecular Liquids</i> , 2021, 337, 116354.	2.3	37
6	ZifBASE: a database of zinc finger proteins and associated resources. <i>BMC Genomics</i> , 2009, 10, 421.	1.2	32
7	Shedding Light on the Interaction of Human Anti-Apoptotic Bcl-2 Protein with Ligands through Biophysical and in Silico Studies. <i>International Journal of Molecular Sciences</i> , 2019, 20, 860.	1.8	25
8	Identification of promising antiviral drug candidates against non-structural protein 15 (NSP15) from SARS-CoV-2: an <i>in silico</i> assisted drug-repurposing study. <i>Journal of Biomolecular Structure and Dynamics</i> , 2022, 40, 438-448.	2.0	24
9	Synthesis, in vitro and in silico anti-proliferative activity of 4-aryl-4H-chromene derivatives. <i>Medicinal Chemistry Research</i> , 2016, 25, 1308-1315.	1.1	23
10	Design, synthesis, molecular docking, and biological evaluation of N-methyl-3-nitro-4-(nitromethyl)-4H-chromen-2-amine derivatives as potential anti-cancer agents. <i>Medicinal Chemistry Research</i> , 2014, 23, 642-659.	1.1	22
11	Design, synthesis, in vitro and in silico anti-cancer activity of 4H-chromenes with C4-active methine groups. <i>Medicinal Chemistry Research</i> , 2015, 24, 1226-1240.	1.1	22
12	Analysis of CYP3A4-HIV-1 protease drugs interactions by computational methods for Highly Active Antiretroviral Therapy in HIV/AIDS. <i>Journal of Molecular Graphics and Modelling</i> , 2010, 28, 455-463.	1.3	20
13	Biological evaluation of gallic acid and quercetin derived from <i>Cerriops tagal</i> : insights from extensive <i>in vitro</i> and <i>in silico</i> studies. <i>Journal of Biomolecular Structure and Dynamics</i> , 2022, 40, 1490-1502.	2.0	19
14	In vitro and in vivo biological characterization of the anti-proliferative potential of a cyclic trinuclear organotin( <i>iv</i> ) complex. <i>Molecular BioSystems</i> , 2016, 12, 1015-1023.	2.9	17
15	Insight into residues involved in the structure and function of the breast cancer associated protein human gamma synuclein. <i>Journal of Molecular Modeling</i> , 2011, 17, 251-263.	0.8	13
16	Association of CTH variant with sinusoidal obstruction syndrome in children receiving intravenous busulfan and cyclophosphamide before hematopoietic stem cell transplantation. <i>Pharmacogenomics Journal</i> , 2018, 18, 64-69.	0.9	13
17	Screening of promising molecules against MurG as drug target in multi-drug-resistant <i>Acinetobacter baumannii</i> - insights from comparative protein modeling, molecular docking and molecular dynamics simulation. <i>Journal of Biomolecular Structure and Dynamics</i> , 2020, 38, 5230-5252.	2.0	13
18	Computer aided ligand based screening for identification of promising molecules against enzymes involved in peptidoglycan biosynthetic pathway from <i>Acinetobacter baumannii</i> . <i>Microbial Pathogenesis</i> , 2020, 147, 104205.	1.3	13

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19	Influence of the Genetic Polymorphisms in the 5' Flanking and Exonic Regions of CYP2C19 on Proguanil Oxidation. <i>Drug Metabolism and Pharmacokinetics</i> , 2009, 24, 537-548.	1.1	12
20	Structure based drug designing and discovery of promising lead molecules against UDP-N-acetylenolpyruvylglucosamine reductase (MurB): A potential drug target in multi-drug resistant <i>Acinetobacter baumannii</i> . <i>Journal of Molecular Graphics and Modelling</i> , 2020, 100, 107675.	1.3	12
21	Identification of promising molecules against MurD ligase from <i>Acinetobacter baumannii</i> : insights from comparative protein modelling, virtual screening, molecular dynamics simulations and MM/PBSA analysis. <i>Journal of Molecular Modeling</i> , 2020, 26, 304.	0.8	11
22	A comprehensive in silico and in vitro studies on quinizarin: a promising phytochemical derived from <i>Rhizophora mucronata</i> Lam. <i>Journal of Biomolecular Structure and Dynamics</i> , 2021, , 1-12.	2.0	10
23	Experimental and computational investigation on the binding of anticancer drug gemcitabine with bovine serum albumin. <i>Journal of Biomolecular Structure and Dynamics</i> , 2022, 40, 9144-9157.	2.0	10
24	Molecular dynamic simulations of the tubulin-human gamma synuclein complex: structural insight into the regulatory mechanism involved in inducing resistance against Taxol. <i>Molecular BioSystems</i> , 2013, 9, 1470.	2.9	9
25	Systematic exploration of predicted destabilizing nonsynonymous single nucleotide polymorphisms (nsSNPs) of human aldehyde oxidase: A Bioinformatics study. <i>Pharmacology Research and Perspectives</i> , 2019, 7, e00538.	1.1	9
26	An extensive computational study to identify potential inhibitors of Acyl-homoserine-lactone synthase from <i>Acinetobacter baumannii</i> (strain AYE). <i>Journal of Molecular Graphics and Modelling</i> , 2022, 114, 108168.	1.3	8
27	Experimental and in silico investigation on the interaction of indomethacin with bovine serum albumin: Effect of sodium dodecyl sulfate surfactant monomers on the binding. <i>Journal of Molecular Liquids</i> , 2021, 336, 116858.	2.3	7
28	Structural insights into interacting mechanism of ID1 protein with an antagonist ID1/3-PA7 and agonist ETS-1 in treatment of ovarian cancer: molecular docking and dynamics studies. <i>Journal of Molecular Modeling</i> , 2012, 18, 4865-4884.	0.8	6
29	Exploring the structural features of Aspartate Trans Carbamoylase ( <i>Tt</i> ATCase) from <i>Thermus thermophilus</i> HB8 through in silico approaches: a potential drug target for inborn error of pyrimidine metabolism. <i>Journal of Biomolecular Structure and Dynamics</i> , 2014, 32, 591-601.	2.0	6
30	In silico and in vitro investigations on the protein-protein interactions of glutathione S-transferases with mitogen-activated protein kinase 8 and apoptosis signal-regulating kinase 1. <i>Journal of Biomolecular Structure and Dynamics</i> , 2022, 40, 1430-1440.	2.0	6
31	Prioritization of Mur family drug targets against <i>A. baumannii</i> and identification of their homologous proteins through molecular phylogeny, primary sequence, and structural analysis. <i>Journal of Genetic Engineering and Biotechnology</i> , 2020, 18, 33.	1.5	6
32	Identifying the natural compound Catechin from tropical mangrove plants as a potential lead candidate against 3CL <sup>pro</sup> from SARS-CoV-2: An integrated in silico approach. <i>Journal of Biomolecular Structure and Dynamics</i> , 2022, 40, 13392-13411.	2.0	6
33	Comparative structural and functional analysis of STL and SLL, chitin-binding lectins from <i>Solanum</i> spp.. <i>Journal of Biomolecular Structure and Dynamics</i> , 2021, 39, 4907-4922.	2.0	5
34	Isolation and biological evaluation 7-hydroxy flavone from <i>Avicennia officinalis</i> L: insights from extensive in vitro, DFT, molecular docking and molecular dynamics simulation studies. <i>Journal of Biomolecular Structure and Dynamics</i> , 2023, 41, 2848-2860.	2.0	5
35	Synthesis and in silico evaluation of 1N-methyl-1S-methyl-2-nitroethylene (NMSM) derivatives against Alzheimer disease: to understand their interacting mechanism with acetylcholinesterase. <i>Journal of Chemical Biology</i> , 2012, 5, 151-166.	2.2	4
36	Structural and functional characterization of chitin binding lectin from <i>Datura stramonium</i> : insights from phylogenetic analysis, protein structure prediction, molecular docking and molecular dynamics simulation. <i>Journal of Biomolecular Structure and Dynamics</i> , 2021, 39, 1698-1716.	2.0	4

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37	Bis(1/4-phenyltellurido-Te)bis[tetracarbonylrhenium(I)]. Acta Crystallographica Section E: Structure Reports Online, 2010, 66, m558-m559.	0.2	3
38	An X-Ray Crystallographic Study of N-Methyl-3-nitro-4-(nitromethyl)-4H-chromen-2-amine. Journal of Chemical Crystallography, 2011, 41, 1927-1934.	0.5	3
39	6,8-Dichloro-N-methyl-3-nitro-4-nitromethyl-4H-chromen-2-amine. Acta Crystallographica Section E: Structure Reports Online, 2011, 67, o898-o899.	0.2	3
40	6-Methoxy-N-methyl-3-nitro-4-nitromethyl-4H-chromen-2-amine. Acta Crystallographica Section E: Structure Reports Online, 2011, 67, o1276-o1277.	0.2	3
41	Genotype Distribution of Dihydrofolatereductase Variants and their Role in Disease Susceptibility to Acute Lymphoblastic Leukemia in Indian Population: An Experimental and Computational Analysis. Journal of Leukemia (Los Angeles, Calif ), 2016, 04, .	0.1	3
42	Isolation, characterisation, anticancer and anti-oxidant activities of 2-methoxy mucic acid from <i>Rhizophora apiculata</i> : an <i>in vitro</i> and <i>in silico</i> studies. Journal of Biomolecular Structure and Dynamics, 2021, , 1-13.	2.0	3
43	1-(2-Naphthyl)-3-phenyl-3-(4,5,6,7-tetrahydro-1,2,3-benzoselenadiazol-4-yl)propan-1-one. Acta Crystallographica Section E: Structure Reports Online, 2011, 67, o2010-o2011.	0.2	2
44	Crystal structure analysis of ethyl 3-(4-chlorophenyl)-1,6-dimethyl-4-methylsulfanyl-1H-pyrazolo[3,4-b]pyridine-5-carboxylate. Acta Crystallographica Section E: Crystallographic Communications, 2020, 76, 443-445.	0.2	2
45	Heptacarbonyl-1 <sup>3</sup> C <sub>3</sub> -2 <sup>4</sup> C <sub>4</sub> -(4-phenylpyridine-1 <sup>5</sup> N)-di-1/4-phenyltellurido-1:2 <sup>4</sup> C <sub>4</sub> . Acta Crystallographica Section E: Structure Reports Online, 2010, 66, m518-m519.	0.2	1
46	3-(4-Methylphenyl)-1-phenyl-3-(4,5,6,7-tetrahydro-1,2,3-benzoselenadiazol-4-yl)propan-1-one. Acta Crystallographica Section E: Structure Reports Online, 2011, 67, o1660-o1661.	0.2	1
47	6-Ethyl-N-methyl-3-nitro-4-nitromethyl-4H-chromen-2-amine. Acta Crystallographica Section E: Structure Reports Online, 2012, 68, o180-o181.	0.2	1
48	Crystal structure analysis of ethyl 6-(4-methoxyphenyl)-1-methyl-4-methylsulfanyl-3-phenyl-1H-pyrazolo[3,4-b]pyridine-5-carboxylate. Acta Crystallographica Section E: Crystallographic Communications, 2020, 76, 1209-1212.	0.2	1
49	A potential implication of UDP-glucuronosyltransferase 2B10 in the detoxification of drugs used in pediatric hematopoietic stem cell transplantation setting: an <i>in silico</i> investigation. BMC Molecular and Cell Biology, 2022, 23, 5.	1.0	1
50	Identification and prioritization of promising lead molecules from <i>Syzygium aromaticum</i> against Sortase C from <i>Streptococcus pyogenes</i> : an <i>in silico</i> investigation. Journal of Biomolecular Structure and Dynamics, 2023, 41, 5418-5435.	2.0	1
51	4-[4-(Diethylamino)phenyl]-N-methyl-3-nitro-4H-chromen-2-amine. Acta Crystallographica Section E: Structure Reports Online, 2011, 67, o1395-o1396.	0.2	0
52	4-[(4-Chlorophenyl)[4-(4-methylphenyl)-1,2,3-selenadiazol-5-yl]methyl]-4,5,6,7-tetrahydro-1,2,3-benzoselenadiazole. Acta Crystallographica Section E: Structure Reports Online, 2011, 67, o1421-o1422.	0.2	0
53	A Comprehensive <i>In Silico</i> Study Towards Understanding the Inhibitory Mechanism of Lactoperoxidase by Dapsone and Propofol. Current Computer-Aided Drug Design, 2021, 17, 550-559.	0.8	0
54	2,2â€²-[Naphthalene-1,5-diylbis(nitrilomethanylylidene)]diphenol. Acta Crystallographica Section E: Structure Reports Online, 2011, 67, o1765-o1766.	0.2	0

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55	Butane-1,4-diyl bis(pyridine-4-carboxylate). Acta Crystallographica Section E: Structure Reports Online, 2011, 67, o1803-o1803.	0.2	0