

Amit Kumar

List of Publications by Citations

Source: <https://exaly.com/author-pdf/3615188/ amit-kumar-publications-by-citations.pdf>

Version: 2024-04-23

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

45
papers

795
citations

17
h-index

26
g-index

47
ext. papers

998
ext. citations

4.3
avg, IF

4.07
L-index

#	Paper	IF	Citations
45	Molecular basis of enrofloxacin translocation through OmpF, an outer membrane channel of Escherichia coli--when binding does not imply translocation. <i>Journal of Physical Chemistry B</i> , 2010 , 114, 5170-9	3.4	78
44	Novel 2-phenylbenzofuran derivatives as selective butyrylcholinesterase inhibitors for Alzheimer's disease. <i>Scientific Reports</i> , 2018 , 8, 4424	4.9	51
43	Molecular simulations reveal the mechanism and the determinants for ampicillin translocation through OmpF. <i>Journal of Physical Chemistry B</i> , 2010 , 114, 9608-16	3.4	48
42	2-Phenylbenzofuran derivatives as butyrylcholinesterase inhibitors: Synthesis, biological activity and molecular modeling. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2016 , 26, 2308-13	2.9	43
41	Toward screening for antibiotics with enhanced permeation properties through bacterial porins. <i>Biochemistry</i> , 2010 , 49, 6928-35	3.2	42
40	Bridging timescales and length scales: from macroscopic flux to the molecular mechanism of antibiotic diffusion through porins. <i>Biophysical Journal</i> , 2010 , 98, 569-75	2.9	39
39	Antibacterial Activity and Molecular Docking Studies of a Selected Series of Hydroxy-3-aryl coumarins. <i>Molecules</i> , 2019 , 24,	4.8	36
38	Structural and dynamical insights on HLA-DR2 complexes that confer susceptibility to multiple sclerosis in Sardinia: a molecular dynamics simulation study. <i>PLoS ONE</i> , 2013 , 8, e59711	3.7	35
37	Metabolomics analysis and modeling suggest a lysophosphocholine-PAF receptor interaction in fibromyalgia. <i>PLoS ONE</i> , 2014 , 9, e107626	3.7	34
36	Structural and dynamical properties of the porins OmpF and OmpC: insights from molecular simulations. <i>Journal of Physics Condensed Matter</i> , 2010 , 22, 454125	1.8	28
35	Coumarin derivatives as promising xanthine oxidase inhibitors. <i>International Journal of Biological Macromolecules</i> , 2018 , 120, 1286-1293	7.9	27
34	Biopolymer: A Sustainable Material for Food and Medical Applications.. <i>Polymers</i> , 2022 , 14,	4.5	24
33	Identification of calcium binding sites on calsequestrin 1 and their implications for polymerization. <i>Molecular BioSystems</i> , 2013 , 9, 1949-57		23
32	Interaction between HLA-DRB1-DQB1 haplotypes in Sardinian multiple sclerosis population. <i>PLoS ONE</i> , 2013 , 8, e59790	3.7	23
31	Substitution impact of highly conserved arginine residue at position 75 in GJB1 gene in association with X-linked Charcot-Marie-tooth disease: A computational study. <i>Journal of Theoretical Biology</i> , 2018 , 437, 305-317	2.3	20
30	Dynamical insights into the differential characteristics of Mycobacterium avium subsp. paratuberculosis peptide binding to HLA-DRB1 proteins associated with multiple sclerosis. <i>New Journal of Chemistry</i> , 2015 , 39, 1355-1366	3.6	20
29	Antigenic peptide molecular recognition by the DRB1-DQB1 haplotype modulates multiple sclerosis susceptibility. <i>Molecular BioSystems</i> , 2014 , 10, 2043-54		19

28	Identification of new inhibitors against human Great wall kinase using in silico approaches. <i>Scientific Reports</i> , 2018 , 8, 4894	4.9	17
27	Dynamical footprint of cross-reactivity in a human autoimmune T-cell receptor. <i>Scientific Reports</i> , 2017 , 7, 42496	4.9	15
26	Inhibition of CD44 sensitizes cisplatin-resistance and affects Wnt/ β -catenin signaling in HNSCC cells. <i>International Journal of Biological Macromolecules</i> , 2020 , 149, 501-512	7.9	14
25	Electronic and optical properties of chromophores from bacterial cellulose. <i>Cellulose</i> , 2018 , 25, 2191-2203	5.5	14
24	Aromatic interaction profile to understand the molecular basis of raltegravir resistance. <i>Structural Chemistry</i> , 2013 , 24, 1499-1512	1.8	14
23	Combined treatment with cisplatin and the tankyrase inhibitor XAV-939 increases cytotoxicity, abrogates cancer-stem-like cell phenotype and increases chemosensitivity of head-and-neck squamous-cell carcinoma cells. <i>Mutation Research - Genetic Toxicology and Environmental Mutagenesis</i> , 2019 , 846, 503-524	3	13
22	The C-terminal calcium-sensitive disordered motifs regulate isoform-specific polymerization characteristics of calsequestrin. <i>Biopolymers</i> , 2015 , 103, 15-22	2.2	12
21	Investigating reaction pathways in rare events simulations of antibiotics diffusion through protein channels. <i>Journal of Molecular Modeling</i> , 2010 , 16, 1701-8	2	12
20	p38 MAPK pathway and its interaction with TRF2 in cisplatin induced chemotherapeutic response in head and neck cancer. <i>Oncogenesis</i> , 2018 , 7, 53	6.6	12
19	Phytochemical composition and the cholinesterase and xanthine oxidase inhibitory properties of seed extracts from the palm fruit.. <i>RSC Advances</i> , 2019 , 9, 21278-21287	3.7	11
18	Synthesis, molecular docking and cholinesterase inhibitory activity of hydroxylated 2-phenylbenzofuran derivatives. <i>Bioorganic Chemistry</i> , 2019 , 84, 302-308	5.1	9
17	Looking for new xanthine oxidase inhibitors: 3-Phenylcoumarins versus 2-phenylbenzofurans. <i>International Journal of Biological Macromolecules</i> , 2020 , 162, 774-780	7.9	8
16	Substitution Effects on the Optoelectronic Properties of Coumarin Derivatives. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 144	2.6	8
15	Chemical composition and enzyme inhibition of <i>Phytolacca dioica</i> L. seeds extracts. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2019 , 34, 519-527	5.6	7
14	Electronic and optical properties of chromophores from hexeneuronic acids. <i>Cellulose</i> , 2019 , 26, 1489-1501	5.0	6
13	A Theoretical Study on Trehalose + Water Mixtures for Dry Preservation Purposes. <i>Molecules</i> , 2020 , 25,	4.8	4
12	Insights into the interaction between lipid bilayers and trehalose aqueous solutions. <i>Journal of Molecular Liquids</i> , 2020 , 314, 113639	6	4
11	Monitoring Indoor People Presence in Buildings Using Low-Cost Infrared Sensor Array in Doorways. <i>Sensors</i> , 2021 , 21,	3.8	4

10	Exploring TEAD2 as a drug target for therapeutic intervention of cancer: A multi-computational case study. <i>Briefings in Bioinformatics</i> , 2021 , 22,	13.4	4
9	The impact of missense mutation in PIGA associated to paroxysmal nocturnal hemoglobinuria and multiple congenital anomalies-hypotonia-seizures syndrome 2: A computational study. <i>Heliyon</i> , 2019 , 5, e02709	3.6	3
8	seed extracts inhibit the islet amyloid polypeptide fibrils formations and α -amylase and α -glucosidase activity. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2021 , 36, 517-524	5.6	3
7	Synthesis and in vitro study of nitro- and methoxy-2-phenylbenzofurans as human monoamine oxidase inhibitors. <i>Bioorganic Chemistry</i> , 2021 , 107, 104616	5.1	3
6	Multi-Objective Optimization of the Gate Driver Parameters in a SiC-Based DC-DC Converter for Electric Vehicles. <i>Energies</i> , 2020 , 13, 3720	3.1	2
5	A new biological prospective for the 2-phenylbenzofurans as inhibitors of α -glucosidase and of the islet amyloid polypeptide formation. <i>International Journal of Biological Macromolecules</i> , 2021 , 169, 428-438	7.9	2
4	Structural Characterisation and Assessment of the Novel RK3 Exopolysaccharide on the Improvement of Cognitive Function in Alzheimer's Disease Mice. <i>Polymers</i> , 2021 , 13,	4.5	2
3	DFT study of [Pt(Cl)2L] complex (L = L-tryptophanic acid) and its derived compounds with DNA purine bases. <i>Chemical Physics</i> , 2020 , 530, 110646	2.3	1
2	Gamma-decanolactone: Preliminary evaluation as potential antiparkinsonian drug. <i>European Journal of Pharmacology</i> , 2021 , 906, 174276	5.3	0
1	Performance Analysis of a Floating Photovoltaic System and Estimation of the Evaporation Losses Reduction. <i>Energies</i> , 2021 , 14, 8336	3.1	0