

Amit Kumar

List of Publications by Year in Descending Order

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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	Biopolymer: A Sustainable Material for Food and Medical Applications.. <i>Polymers</i> , 2022 , 14,	4.5	24
44	Monitoring Indoor People Presence in Buildings Using Low-Cost Infrared Sensor Array in Doorways. <i>Sensors</i> , 2021 , 21,	3.8	4
43	seed extracts inhibit the islet amyloid polypeptide fibrils formations and α -amylase and β -glucosidase activity. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2021 , 36, 517-524	5.6	3
42	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
41	A new biological prospective for the 2-phenylbenzofurans as inhibitors of β -glucosidase and of the islet amyloid polypeptide formation. <i>International Journal of Biological Macromolecules</i> , 2021 , 169, 428-433	7.9	2
40	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
39	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
38	Gamma-decanolactone: Preliminary evaluation as potential antiparkinsonian drug. <i>European Journal of Pharmacology</i> , 2021 , 906, 174276	5.3	0
37	Performance Analysis of a Floating Photovoltaic System and Estimation of the Evaporation Losses Reduction. <i>Energies</i> , 2021 , 14, 8336	3.1	0
36	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
35	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
34	A Theoretical Study on Trehalose + Water Mixtures for Dry Preservation Purposes. <i>Molecules</i> , 2020 , 25,	4.8	4
33	Substitution Effects on the Optoelectronic Properties of Coumarin Derivatives. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 144	2.6	8
32	DFT study of [Pt(Cl)2L] complex (L = β -tubercic acid) and its derived compounds with DNA purine bases. <i>Chemical Physics</i> , 2020 , 530, 110646	2.3	1
31	Insights into the interaction between lipid bilayers and trehalose aqueous solutions. <i>Journal of Molecular Liquids</i> , 2020 , 314, 113639	6	4
30	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
29	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, 503004	3	13

28	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
27	Electronic and optical properties of chromophores from hexeneuronic acids. <i>Cellulose</i> , 2019 , 26, 1489-1501	5.0	6
26	Antibacterial Activity and Molecular Docking Studies of a Selected Series of Hydroxy-3-arylcoumarins. <i>Molecules</i> , 2019 , 24,	4.8	36
25	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
24	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
23	Synthesis, molecular docking and cholinesterase inhibitory activity of hydroxylated 2-phenylbenzofuran derivatives. <i>Bioorganic Chemistry</i> , 2019 , 84, 302-308	5.1	9
22	Electronic and optical properties of chromophores from bacterial cellulose. <i>Cellulose</i> , 2018 , 25, 2191-2203	5.5	14
21	Identification of new inhibitors against human Great wall kinase using in silico approaches. <i>Scientific Reports</i> , 2018 , 8, 4894	4.9	17
20	Novel 2-phenylbenzofuran derivatives as selective butyrylcholinesterase inhibitors for Alzheimer's disease. <i>Scientific Reports</i> , 2018 , 8, 4424	4.9	51
19	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
18	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
17	Coumarin derivatives as promising xanthine oxidase inhibitors. <i>International Journal of Biological Macromolecules</i> , 2018 , 120, 1286-1293	7.9	27
16	Dynamical footprint of cross-reactivity in a human autoimmune T-cell receptor. <i>Scientific Reports</i> , 2017 , 7, 42496	4.9	15
15	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
14	The C-terminal calcium-sensitive disordered motifs regulate isoform-specific polymerization characteristics of calsequestrin. <i>Biopolymers</i> , 2015 , 103, 15-22	2.2	12
13	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
12	Antigenic peptide molecular recognition by the DRB1-DQB1 haplotype modulates multiple sclerosis susceptibility. <i>Molecular BioSystems</i> , 2014 , 10, 2043-54		19
11	Metabolomics analysis and modeling suggest a lysophosphocholines-PAF receptor interaction in fibromyalgia. <i>PLoS ONE</i> , 2014 , 9, e107626	3.7	34

10	Aromatic interaction profile to understand the molecular basis of raltegravir resistance. <i>Structural Chemistry</i> , 2013 , 24, 1499-1512	1.8	14
9	Identification of calcium binding sites on calsequestrin 1 and their implications for polymerization. <i>Molecular BioSystems</i> , 2013 , 9, 1949-57		23
8	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
7	Interaction between HLA-DRB1-DQB1 haplotypes in Sardinian multiple sclerosis population. <i>PLoS ONE</i> , 2013 , 8, e59790	3.7	23
6	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
5	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
4	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
3	Toward screening for antibiotics with enhanced permeation properties through bacterial porins. <i>Biochemistry</i> , 2010 , 49, 6928-35	3.2	42
2	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
1	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