

Amit Kumar

List of Publications by Year in descending order

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Version: 2024-02-01

47
papers

1,311
citations

361045

20
h-index

377514

34
g-index

47
all docs

47
docs citations

47
times ranked

1490
citing authors

#	ARTICLE	IF	CITATIONS
1	Biopolymer: A Sustainable Material for Food and Medical Applications. <i>Polymers</i> , 2022, 14, 983.	2.0	214
2	Molecular Basis of Enrofloxacin Translocation through OmpF, an Outer Membrane Channel of <i>Escherichia coli</i> - When Binding Does Not Imply Translocation. <i>Journal of Physical Chemistry B</i> , 2010, 114, 5170-5179.	1.2	88
3	Novel 2-phenylbenzofuran derivatives as selective butyrylcholinesterase inhibitors for Alzheimer's disease. <i>Scientific Reports</i> , 2018, 8, 4424.	1.6	71
4	Antibacterial Activity and Molecular Docking Studies of a Selected Series of Hydroxy-3-aryl coumarins. <i>Molecules</i> , 2019, 24, 2815.	1.7	69
5	Molecular Simulations Reveal the Mechanism and the Determinants for Ampicillin Translocation through OmpF. <i>Journal of Physical Chemistry B</i> , 2010, 114, 9608-9616.	1.2	54
6	Metabolomics Analysis and Modeling Suggest a Lysophosphocholine-PAF Receptor Interaction in Fibromyalgia. <i>PLoS ONE</i> , 2014, 9, e107626.	1.1	52
7	Toward Screening for Antibiotics with Enhanced Permeation Properties through Bacterial Porins. <i>Biochemistry</i> , 2010, 49, 6928-6935.	1.2	47
8	2-Phenylbenzofuran derivatives as butyrylcholinesterase inhibitors: Synthesis, biological activity and molecular modeling. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2016, 26, 2308-2313.	1.0	47
9	Coumarin derivatives as promising xanthine oxidase inhibitors. <i>International Journal of Biological Macromolecules</i> , 2018, 120, 1286-1293.	3.6	46
10	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.	1.1	43
11	Bridging Timescales and Length Scales: From Macroscopic Flux to the Molecular Mechanism of Antibiotic Diffusion through Porins. <i>Biophysical Journal</i> , 2010, 98, 569-575.	0.2	40
12	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.	0.8	32
13	Structural and dynamical properties of the porins OmpF and OmpC: insights from molecular simulations. <i>Journal of Physics Condensed Matter</i> , 2010, 22, 454125.	0.7	29
14	Electronic and optical properties of chromophores from bacterial cellulose. <i>Cellulose</i> , 2018, 25, 2191-2203.	2.4	28
15	Identification of new inhibitors against human Great wall kinase using in silico approaches. <i>Scientific Reports</i> , 2018, 8, 4894.	1.6	28
16	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.	3.6	28
17	Identification of calcium binding sites on calsequestrin 1 and their implications for polymerization. <i>Molecular BioSystems</i> , 2013, 9, 1949.	2.9	26
18	Interaction between HLA-DRB1-DQB1 Haplotypes in Sardinian Multiple Sclerosis Population. <i>PLoS ONE</i> , 2013, 8, e59790.	1.1	25

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19	Antigenic peptide molecular recognition by the DRB1*04:01 haplotype modulates multiple sclerosis susceptibility. <i>Molecular BioSystems</i> , 2014, 10, 2043-2054.	2.9	24
20	Dynamical insights into the differential characteristics of <i>Mycobacterium avium</i> subsp. paratuberculosis peptide binding to HLA-DRB1 proteins associated with multiple sclerosis. <i>New Journal of Chemistry</i> , 2015, 39, 1355-1366.	1.4	23
21	Dynamical footprint of cross-reactivity in a human autoimmune T-cell receptor. <i>Scientific Reports</i> , 2017, 7, 42496.	1.6	20
22	Phytochemical composition and the cholinesterase and xanthine oxidase inhibitory properties of seed extracts from the <i>Washingtonia filifera</i> palm fruit. <i>RSC Advances</i> , 2019, 9, 21278-21287.	1.7	19
23	Looking for new xanthine oxidase inhibitors: 3-Phenylcoumarins versus 2-phenylbenzofurans. <i>International Journal of Biological Macromolecules</i> , 2020, 162, 774-780.	3.6	19
24	Monitoring Indoor People Presence in Buildings Using Low-Cost Infrared Sensor Array in Doorways. <i>Sensors</i> , 2021, 21, 4062.	2.1	19
25	p38 MAPK pathway and its interaction with TRF2 in cisplatin induced chemotherapeutic response in head and neck cancer. <i>Oncogenesis</i> , 2018, 7, 53.	2.1	18
26	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, 503084.	0.9	17
27	Substitution Effects on the Optoelectronic Properties of Coumarin Derivatives. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 144.	1.3	17
28	Aromatic interaction profile to understand the molecular basis of raltegravir resistance. <i>Structural Chemistry</i> , 2013, 24, 1499-1512.	1.0	14
29	The C-terminal calcium-sensitive disordered motifs regulate isoform-specific polymerization characteristics of casein. <i>Biopolymers</i> , 2015, 103, 15-22.	1.2	13
30	Electronic and optical properties of chromophores from hexeneuronic acids. <i>Cellulose</i> , 2019, 26, 1489-1501.	2.4	13
31	Investigating reaction pathways in rare events simulations of antibiotics diffusion through protein channels. <i>Journal of Molecular Modeling</i> , 2010, 16, 1701-1708.	0.8	12
32	Synthesis and in vitro study of nitro- and methoxy-2-phenylbenzofurans as human monoamine oxidase inhibitors. <i>Bioorganic Chemistry</i> , 2021, 107, 104616.	2.0	12
33	Structural Characterisation and Assessment of the Novel <i>Bacillus amyloliquefaciens</i> RK3 Exopolysaccharide on the Improvement of Cognitive Function in Alzheimer's Disease Mice. <i>Polymers</i> , 2021, 13, 2842.	2.0	12
34	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.	2.5	11
35	<i>Washingtonia filifera</i> 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.	2.5	11
36	Synthesis, molecular docking and cholinesterase inhibitory activity of hydroxylated 2-phenylbenzofuran derivatives. <i>Bioorganic Chemistry</i> , 2019, 84, 302-308.	2.0	10

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37	Exploring TEAD2 as a drug target for therapeutic intervention of cancer: A multi-computational case study. <i>Briefings in Bioinformatics</i> , 2021, 22, .	3.2	9
38	Performance Analysis of a Floating Photovoltaic System and Estimation of the Evaporation Losses Reduction. <i>Energies</i> , 2021, 14, 8336.	1.6	9
39	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.	1.4	8
40	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, 428-435.	3.6	8
41	Insights into the interaction between lipid bilayers and trehalose aqueous solutions. <i>Journal of Molecular Liquids</i> , 2020, 314, 113639.	2.3	7
42	Multi-Objective Optimization of the Gate Driver Parameters in a SiC-Based DC-DC Converter for Electric Vehicles. <i>Energies</i> , 2020, 13, 3720.	1.6	6
43	A Theoretical Study on Trehalose + Water Mixtures for Dry Preservation Purposes. <i>Molecules</i> , 2020, 25, 1435.	1.7	5
44	DFT study of [Pt(Cl)2L] complex (L=Arubeanic acid) and its derived compounds with DNA purine bases. <i>Chemical Physics</i> , 2020, 530, 110646.	0.9	3
45	Gamma-decanolactone: Preliminary evaluation as potential antiparkinsonian drug. <i>European Journal of Pharmacology</i> , 2021, 906, 174276.	1.7	2
46	Structural Insight of New Butyrylcholinesterase Inhibitors Based on Benzylbenzofuran Scaffold. <i>Pharmaceuticals</i> , 2022, 15, 304.	1.7	2
47	Skeletal Calsequestrin - Calcium Interaction: Role of Acidic C-Terminus. <i>Biophysical Journal</i> , 2013, 104, 173a.	0.2	1