

Balu K

List of Publications by Year in descending order

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35
papers

1,020
citations

394421

19
h-index

434195

31
g-index

36
all docs

36
docs citations

36
times ranked

1419
citing authors

#	ARTICLE	IF	CITATIONS
1	Mutational Analysis of Oculocutaneous Albinism: A Compact Review. BioMed Research International, 2014, 2014, 1-10.	1.9	112
2	Removal of nutrients from domestic wastewater by microalgae coupled to lipid augmentation for biodiesel production and influence of deoiled algal biomass as biofertilizer for Solanum lycopersicum cultivation. Chemosphere, 2021, 268, 129323.	8.2	77
3	<i>In Silico</i> Screening and Molecular Dynamics Simulation of Disease-Associated nsSNP in TYRP1 Gene and Its Structural Consequences in OCA3. BioMed Research International, 2013, 2013, 1-13.	1.9	69
4	State-of-the-art tools unveil potent drug targets amongst clinically approved drugs to inhibit helicase in SARS-CoV-2. Archives of Medical Science, 2020, 16, 508-518.	0.9	68
5	Computational Screening of Disease-Associated Mutations in OCA2 Gene. Cell Biochemistry and Biophysics, 2014, 68, 97-109.	1.8	53
6	Mutational analysis of TYR gene and its structural consequences in OCA1A. Gene, 2013, 513, 184-195.	2.2	47
7	Structure and Function of p53-DNA Complexes with Inactivation and Rescue Mutations: A Molecular Dynamics Simulation Study. PLoS ONE, 2015, 10, e0134638.	2.5	46
8	Mutational analysis of FUS gene and its structural and functional role in amyotrophic lateral sclerosis 6. Journal of Biomolecular Structure and Dynamics, 2015, 33, 834-844.	3.5	46
9	Mutational Analysis on Membrane Associated Transporter Protein (MATP) and Their Structural Consequences in Oculocutaneous Albinism Type 4 (OCA4)â€™A Molecular Dynamics Approach. Journal of Cellular Biochemistry, 2016, 117, 2608-2619.	2.6	46
10	Application of Computational Biology and Artificial Intelligence Technologies in Cancer Precision Drug Discovery. BioMed Research International, 2019, 2019, 1-15.	1.9	42
11	Investigation of nonsynonymous mutations in the spike protein of SARS-CoV-2 and its interaction with the ACE2 receptor by molecular docking and MM/GBSA approach. Computers in Biology and Medicine, 2021, 135, 104654.	7.0	37
12	In-silico screening of cancer associated mutation on PLK1 protein and its structural consequences. Journal of Molecular Modeling, 2013, 19, 5587-5599.	1.8	31
13	Mutations in microRNA Binding Sites of CEP Genes Involved in Cancer. Cell Biochemistry and Biophysics, 2014, 70, 1933-1942.	1.8	30
14	Network analysis of transcriptomics data for the prediction and prioritization of membrane-associated biomarkers for idiopathic pulmonary fibrosis (IPF) by bioinformatics approach. Advances in Protein Chemistry and Structural Biology, 2021, 123, 241-273.	2.3	29
15	Polyhydroxybutyrate production from ultrasound-aided alkaline pretreated finger millet straw using Bacillus megaterium strain CAM12. Bioresource Technology, 2021, 325, 124632.	9.6	27
16	Multi-level molecular modelling for plasma medicine. Journal Physics D: Applied Physics, 2016, 49, 054002.	2.8	26
17	Investigation of Binding Phenomenon of NSP3 and p130Cas Mutants and Their Effect on Cell Signalling. Cell Biochemistry and Biophysics, 2013, 67, 623-633.	1.8	25
18	Single Nucleotide Polymorphisms in MicroRNA Binding Sites: Implications in Colorectal Cancer. Scientific World Journal, The, 2014, 2014, 1-10.	2.1	24

#	ARTICLE	IF	CITATIONS
19	In Silico Analysis of miRNA-Mediated Gene Regulation in OCA and OA Genes. <i>Cell Biochemistry and Biophysics</i> , 2014, 70, 1923-1932.	1.8	23
20	Effect of novel leukemia mutations (K75E & E222K) on interferon regulatory factor 1 and its interaction with DNA: insights from molecular dynamics simulations and docking studies. <i>Journal of Biomolecular Structure and Dynamics</i> , 2021, 39, 5235-5247.	3.5	23
21	Comprehensive in silico screening and molecular dynamics studies of missense mutations in Sjogren-Larsson syndrome associated with the ALDH3A2 gene. <i>Advances in Protein Chemistry and Structural Biology</i> , 2020, 120, 349-377.	2.3	21
22	The Structural Effect of FLT3 Mutations at 835th Position and Their Interaction with Acute Myeloid Leukemia Inhibitors: In Silico Approach. <i>International Journal of Molecular Sciences</i> , 2021, 22, 7602.	4.1	19
23	Cultivation of <i>Nostoc</i> sp. LS04 in municipal wastewater for biodiesel production and their deoiled biomass cellular extracts as biostimulants for <i>Lactuca sativa</i> growth improvement. <i>Chemosphere</i> , 2021, 280, 130644.	8.2	15
24	A computational approach for investigating the mutational landscape of RAC-alpha serine/threonine-protein kinase (AKT1) and screening inhibitors against the oncogenic E17K mutation causing breast cancer. <i>Computers in Biology and Medicine</i> , 2019, 115, 103513.	7.0	14
25	Structural modification of P-glycoprotein induced by OH radicals: Insights from atomistic simulations. <i>Scientific Reports</i> , 2016, 6, 19466.	3.3	11
26	Selective Glucocorticoid Receptor Properties of GSK866 Analogs with Cysteine Reactive Warheads. <i>Frontiers in Immunology</i> , 2017, 8, 1324.	4.8	10
27	Prioritization of SNPs in γ -LATA culpable of Lysinuric protein intolerance and their mutational impacts using protein-protein docking and molecular dynamics simulation studies. <i>Journal of Cellular Biochemistry</i> , 2019, 120, 18496-18508.	2.6	10
28	Deciphering the Role of Filamin B Calponin-Homology Domain in Causing the Larsen Syndrome, Boomerang Dysplasia, and Atelosteogenesis Type I Spectrum Disorders via a Computational Approach. <i>Molecules</i> , 2020, 25, 5543.	3.8	10
29	In-silico analysis of Betaine Aldehyde Dehydrogenase2 of <i>Oryza sativa</i> and significant mutations responsible for fragrance. <i>Journal of Plant Interactions</i> , 2013, 8, 321-333.	2.1	9
30	Mutations in G6PC2 gene with increased risk for development of type 2 diabetes: Understanding via computational approach. <i>Advances in Protein Chemistry and Structural Biology</i> , 2022, 130, 351-373.	2.3	6
31	Evolution driven structural changes in CENP-E motor domain. <i>Interdisciplinary Sciences, Computational Life Sciences</i> , 2013, 5, 102-111.	3.6	5
32	Computational structural assessment of Breast Cancer type 1 susceptibility protein (BRCA1) and BRCA1-Associated Ring Domain protein 1 (BARD1) mutations on the protein-protein interface. <i>Advances in Protein Chemistry and Structural Biology</i> , 2022, 130, 375-397.	2.3	4
33	Evolutionary Reconstruction and Population Genetics Analysis of Aurora Kinases. <i>PLoS ONE</i> , 2013, 8, e75763.	2.5	3
34	Exome array identifies functional exonic biomarkers for pediatric dental caries. <i>Computers in Biology and Medicine</i> , 2021, , 105019.	7.0	2
35	Molecular biochemical characterization of selective glucocorticoid receptor activities of GSK866 analogues with cysteine reactive warheads. <i>Proceedings for Annual Meeting of the Japanese Pharmacological Society</i> , 2018, WCP2018, PO2-5-6.	0.0	0