Areejit Samal

List of Publications by Year
in descending order

57	1,580	393982 19	344852 36
papers	citations	h-index	g-index

70	70	70	1864
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Potential phytochemical inhibitors of SARS-CoV-2 helicase Nsp13: a molecular docking and dynamic simulation study. Molecular Diversity, 2022, 26, 429-442.	2.1	27
2	An atlas of fragrance chemicals in children's products. Science of the Total Environment, 2022, 818, 151682.	3.9	7
3	Virtual screening of phytochemicals from Indian medicinal plants against the endonuclease domain of SFTS virus L polymerase. RSC Advances, 2022, 12, 6234-6247.	1.7	10
4	A Poset-Based Approach to Curvature of Hypergraphs. Symmetry, 2022, 14, 420.	1.1	0
5	A preference for link operator functions can drive Boolean biological networks towards critical dynamics. Journal of Biosciences, 2022, 47, 1.	0.5	0
6	Investigation of a derived adverse outcome pathway (AOP) network for endocrine-mediated perturbations. Science of the Total Environment, 2022, 826, 154112.	3.9	13
7	Minimum complexity drives regulatory logic in Boolean models of living systems. , 2022, 1, .		14
8	Graph Ricci curvatures reveal atypical functional connectivity in autism spectrum disorder. Scientific Reports, 2022, 12, 8295.	1.6	4
9	DEDuCT 2.0: An updated knowledgebase and an exploration of the current regulations and guidelines from the perspective of endocrine disrupting chemicals. Chemosphere, 2021, 267, 128898.	4.2	30
10	MeFSAT: a curated natural product database specific to secondary metabolites of medicinal fungi. RSC Advances, 2021, 11, 2596-2607.	1.7	16
11	Network-centric Indicators for Fragility in Global Financial Indices. Frontiers in Physics, 2021, 8, .	1.0	6
12	Network geometry and market instability. Royal Society Open Science, 2021, 8, 201734.	1.1	18
13	ExHuMId: A curated resource and analysis of Exposome of Human Milk across India. Chemosphere, 2021, 271, 129583.	4.2	11
14	Reprogramming of microRNA expression via E2F1 downregulation promotes Salmonella infection both in infected and bystander cells. Nature Communications, 2021, 12, 3392.	5.8	5
15	NeurotoxKb 1.0: Compilation, curation and exploration of a knowledgebase of environmental neurotoxicants specific to mammals. Chemosphere, 2021, 278, 130387.	4.2	6
16	Network biology approach to human tissue-specific chemical exposome. Journal of Steroid Biochemistry and Molecular Biology, 2021, 214, 105998.	1.2	1
17	A simple differential geometry for complex networks. Network Science, 2021, 9, S106-S133.	0.8	13
18	Forman-Ricci curvature and persistent homology of unweighted complex networks. Chaos, Solitons and Fractals, 2020, 140, 110260.	2.5	4

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19	In Silico Identification of Potential Natural Product Inhibitors of Human Proteases Key to SARS-CoV-2 Infection. Molecules, 2020, 25, 3822.	1.7	51
20	Degree difference: a simple measure to characterize structural heterogeneity in complex networks. Scientific Reports, 2020, 10, 21348.	1.6	6
21	Edge-based analysis of networks: curvatures of graphs and hypergraphs. Theory in Biosciences, 2020, 139, 337-348.	0.6	5
22	A Simple Differential Geometry for Networks and Its Generalizations. Studies in Computational Intelligence, 2020, , 943-954.	0.7	5
23	A curated knowledgebase on endocrine disrupting chemicals and their biological systems-level perturbations. Science of the Total Environment, 2019, 692, 281-296.	3.9	67
24	Persistent homology of unweighted complex networks via discrete Morse theory. Scientific Reports, 2019, 9, 13817.	1.6	17
25	Discrete Ricci curvatures for directed networks. Chaos, Solitons and Fractals, 2019, 118, 347-360.	2.5	23
26	Common Regulatory Pathways Mediate Activity of MicroRNAs Inducing Cardiomyocyte Proliferation. Cell Reports, 2019, 27, 2759-2771.e5.	2.9	77
27	Broad Substrate-Specific Phosphorylation Events Are Associated With the Initial Stage of Plant Cell Wall Recognition in Neurospora crassa. Frontiers in Microbiology, 2019, 10, 2317.	1.5	25
28	Network approach towards understanding the crazing in glassy amorphous polymers. Journal of Statistical Mechanics: Theory and Experiment, 2018, 2018, 043305.	0.9	2
29	Comparative systems analysis of the secretome of the opportunistic pathogen Aspergillus fumigatus and other Aspergillus species. Scientific Reports, 2018, 8, 6617.	1.6	42
30	IMPPAT: A curated database of Indian Medicinal Plants, Phytochemistry And Therapeutics. Scientific Reports, 2018, 8, 4329.	1.6	306
31	Comparative analysis of two discretizations of Ricci curvature for complex networks. Scientific Reports, 2018, 8, 8650.	1.6	80
32	Haldane, Waddington and recombinant inbred lines: extension of their work to any number of genes. Journal of Genetics, 2017, 96, 795-800.	0.4	3
33	Systematic evaluation of a new combinatorial curvature for complex networks. Chaos, Solitons and Fractals, 2017, 101, 50-67.	2.5	35
34	Network reconstruction and systems analysis of plant cell wall deconstruction by Neurospora crassa. Biotechnology for Biofuels, 2017, 10, 225.	6.2	42
35	Advances in the integration of transcriptional regulatory information into genome-scale metabolic models. BioSystems, 2016, 147, 1-10.	0.9	40
36	Forman curvature for complex networks. Journal of Statistical Mechanics: Theory and Experiment, 2016, 2016, 063206.	0.9	95

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37	Comparative Proteomic Analyses of Avirulent, Virulent, and Clinical Strains of Mycobacterium tuberculosis Identify Strain-specific Patterns. Journal of Biological Chemistry, 2016, 291, 14257-14273.	1.6	55
38	Relative stability of network states in Boolean network models of gene regulation in development. BioSystems, 2016, 142-143, 15-24.	0.9	45
39	Phenotypic constraints promote latent versatility and carbon efficiency in metabolic networks. Physical Review E, 2015, 92, 012809.	0.8	1
40	Statistical Physics Methods Provide the Exact Solution to a Long-Standing Problem of Genetics. Physical Review Letters, 2015, 114, 238101.	2.9	5
41	Analysis of the hierarchical structure of the B. subtilis transcriptional regulatory network. Molecular BioSystems, 2015, 11, 930-941.	2.9	12
42	Network function shapes network structure: the case of the Arabidopsis flower organ specification genetic network. Molecular BioSystems, 2013, 9, 1726.	2.9	17
43	Flux-based classification of reactions reveals a functional bow-tie organization of complex metabolic networks. Physical Review E, 2013, 87, 052708.	0.8	10
44	Shining fresh light on the evolution of photosynthesis. ELife, 2013, 2, e01403.	2.8	2
45	Hopf bifurcation in the evolution of networks driven by spike-timing-dependent plasticity. Physical Review E, 2012, 86, 056103.	0.8	10
46	Targeting multiple targets in<i>Pseudomonas aeruginosa</i>PAO1 using flux balance analysis of a reconstructed genome-scale metabolic network. Journal of Drug Targeting, 2011, 19, 1-13.	2.1	28
47	Learning and structure of neuronal networks. Pramana - Journal of Physics, 2011, 77, 817-826.	0.9	2
48	Environmental versatility promotes modularity in genome-scale metabolic networks. BMC Systems Biology, 2011, 5, 135.	3.0	16
49	Randomizing Genome-Scale Metabolic Networks. PLoS ONE, 2011, 6, e22295.	1.1	14
50	STDP-driven networks and the C. elegans neuronal network. Physica A: Statistical Mechanics and Its Applications, 2010, 389, 3900-3914.	1.2	16
51	Genotype networks in metabolic reaction spaces. BMC Systems Biology, 2010, 4, 30.	3.0	49
52	Challenges in experimental data integration within genome-scale metabolic models. Algorithms for Molecular Biology, 2010, 5, 20.	0.3	1
53	Cloning and Targeted Disruption of Two Lipopolysaccharide Biosynthesis Genes, <i>kdsA</i> and <i>waaG</i>, of <i>Pseudomonas aeruginosa</i> PAO1 by Site-Directed Mutagenesis. Journal of Molecular Microbiology and Biotechnology, 2010, 19, 169-179.	1.0	8
54	Preferential attachment renders an evolving network of populations robust against crashes. Physica A: Statistical Mechanics and Its Applications, 2009, 388, 1535-1545.	1.2	3

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55	Conservation of high-flux backbone in alternate optimal and near-optimal flux distributions of metabolic networks. Systems and Synthetic Biology, 2008, 2, 83-93.	1.0	10
56	The regulatory network of E. coli metabolism as a Boolean dynamical system exhibits both homeostasis and flexibility of response. BMC Systems Biology, 2008, 2, 21.	3.0	102
57	Low degree metabolites explain essential reactions and enhance modularity in biological networks. BMC Bioinformatics, 2006, 7, 118.	1.2	56