Jamil Ahmad

List of Publications by Year
in descending order

71	1,310	430874 18	395702 33
papers	citations	h-index	g-index

75	75	75	1710
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Identification of putative vaccine candidates against Helicobacter pylori exploiting exoproteome and secretome: A reverse vaccinology based approach. Infection, Genetics and Evolution, 2015, 32, 280-291.	2.3	180
2	Emerging promise of sulforaphane-mediated Nrf2 signaling cascade against neurological disorders. Science of the Total Environment, 2020, 707, 135624.	8.0	108
3	Pangenome and immuno-proteomics analysis of Acinetobacter baumannii strains revealed the core peptide vaccine targets. BMC Genomics, 2016, 17, 732.	2.8	100
4	PanRV: Pangenome-reverse vaccinology approach for identifications of potential vaccine candidates in microbial pangenome. BMC Bioinformatics, 2019, 20, 123.	2.6	80
5	Neuroprotective role of polyphenols against oxidative stress-mediated neurodegeneration. European Journal of Pharmacology, 2020, 886, 173412.	3.5	74
6	Stevia rebaudiana Bertoni.: an updated review of its health benefits, industrial applications and safety. Trends in Food Science and Technology, 2020, 100, 177-189.	15.1	69
7	VacSol: a high throughput in silico pipeline to predict potential therapeutic targets in prokaryotic pathogens using subtractive reverse vaccinology. BMC Bioinformatics, 2017, 18, 106.	2.6	65
8	Hybrid Modelling and Dynamical Analysis of Gene Regulatory Networks with Delays. Complexus, 2006, 3, 231-251.	0.6	50
9	Structural characterization of ANGPTL8 (betatrophin) with its interacting partner lipoprotein lipase. Computational Biology and Chemistry, 2016, 61, 210-220.	2.3	41
10	Visualizing the regulatory role of Angiopoietin-like protein 8 (ANGPTL8) in glucose and lipid metabolic pathways. Genomics, 2017, 109, 408-418.	2.9	38
11	Identification of Circulating Biomarker Candidates for Hepatocellular Carcinoma (HCC): An Integrated Prioritization Approach. PLoS ONE, 2015, 10, e0138913.	2.5	35
12	MicroRNA pharmacogenomics based integrated model of miR-17-92 cluster in sorafenib resistant HCC cells reveals a strategy to forestall drug resistance. Scientific Reports, 2017, 7, 11448.	3.3	31
13	Anti-Neuroinflammatory Potential of Polyphenols by Inhibiting NF-Î¹B to Halt Alzheimer's Disease. Current Pharmaceutical Design, 2021, 27, 402-414.	1.9	31
14	Formal Modelling of Toll like Receptor 4 and JAK/STAT Signalling Pathways: Insight into the Roles of SOCS-1, Interferon-Î² and Proinflammatory Cytokines in Sepsis. PLoS ONE, 2014, 9, e108466.	2.5	29
15	Analysing formal models of genetic regulatory networks with delays. International Journal of Bioinformatics Research and Applications, 2008, 4, 240.	0.2	25
16	Effect of Incorporating Stevia and Moringa in Cookies on Postprandial Glycemia, Appetite, Palatability, and Gastrointestinal Well-Being. Journal of the American College of Nutrition, 2018, 37, 133-139.	1.8	25
17	Formal Modeling and Analysis of the MAL-Associated Biological Regulatory Network: Insight into Cerebral Malaria. PLoS ONE, 2012, 7, e33532.	2.5	24
18	<scp>Moringa oleifera</scp> and glycemic control: A review of current evidence and possible mechanisms. Phytotherapy Research, 2019, 33, 2841-2848.	5.8	20

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19	Temporal constraints of a gene regulatory network: Refining a qualitative simulation. BioSystems, 2009, 98, 149-159.	2.0	16
20	Modeling of real-time embedded systems using SysML and its verification using UPPAAL and DiVinE. , 2014, , .		16
21	On the modelling and analysis of the regulatory network of dengue virus pathogenesis and clearance. Computational Biology and Chemistry, 2014, 53, 277-291.	2.3	16
22	Formal modeling and analysis of the hexosamine biosynthetic pathway: role of O-linked N-acetylglucosamine transferase in oncogenesis and cancer progression. PeerJ, 2016, 4, e2348.	2.0	16
23	Structural evaluation of BTK and PKCÎ´ mediated phosphorylation of MAL at positions Tyr86 and Tyr106. Computational Biology and Chemistry, 2014, 51, 22-35.	2.3	13
24	Modelling and Analysis of the Feeding Regimen Induced Entrainment of Hepatocyte Circadian Oscillators Using Petri Nets. PLoS ONE, 2015, 10, e0117519.	2.5	13
25	TetraMail: a usable email client for blind people. Universal Access in the Information Society, 2020, 19, 113-132.	3.0	13
26	Analyzing the Behavior of Neuronal Pathways in Alzheimer's Disease Using Petri Net Modeling Approach. Frontiers in Neuroinformatics, 2018, 12, 26.	2.5	12
27	On the modeling and analysis of the biological regulatory network of NF-$${kappa }$$B activation in HIV-1 infection. Complex Adaptive Systems Modeling, 2016, 4, .	1.6	11
28	Insilico study of anti-carcinogenic lysyl oxidase-like 2 inhibitors. Computational Biology and Chemistry, 2014, 51, 71-82.	2.3	10
29	Effect of Incorporating Bay Leaves in Cookies on Postprandial Glycemia, Appetite, Palatability, and Gastrointestinal Well-Being. Journal of the American College of Nutrition, 2017, 36, 514-519.	1.8	9
30	Model of the adaptive immune response system against HCV infection reveals potential immunomodulatory agents for combination therapy. Scientific Reports, 2018, 8, 8874.	3.3	9
31	Biological Pathways Leading From ANGPTL8 to Diabetes Mellitusâ€“A Co-expression Network Based Analysis. Frontiers in Physiology, 2018, 9, 1841.	2.8	8
32	Rheumatoid arthritis: What have we learned about the causing factors?. Pakistan Journal of Pharmaceutical Sciences, 2016, 29, 629-45.	0.2	8
33	Parallel verification of UML using DiVinE tool. , 2013, , .		7
34	On the real time modeling of interlocking system of passenger lines of Rawalpindi Cantt train station. Complex Adaptive Systems Modeling, 2016, 4, .	1.6	7
35	Parameter estimation of qualitative biological regulatory networks on high performance computing hardware. BMC Systems Biology, 2018, 12, 146.	3.0	6
36	Formal modeling and analysis of ER-Î±associated Biological Regulatory Network in breast cancer. PeerJ, 2016, 4, e2542.	2.0	6

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37	Formal model of the interplay between TGF-Î²1 and MMP-9 and their dynamics in hepatocellular carcinoma. Mathematical Biosciences and Engineering, 2019, 16, 3285-3310.	1.9	6
38	Invariance kernel of Biological Regulatory Networks. International Journal of Data Mining and Bioinformatics, 2010, 4, 553.	0.1	5
39	Petri Net-Based Model of Helicobacter pylori Mediated Disruption of Tight Junction Proteins in Stomach Lining during Gastric Carcinoma. Frontiers in Microbiology, 2017, 8, 1682.	3.5	5
40	Model-based in silico analysis of the PI3K/Akt pathway: the elucidation of cross-talk between diabetes and breast cancer. PeerJ, 2018, 6, e5917.	2.0	5
41	Interaction of Phytochemicals from Walnut on Health: An Updated Comprehensive Review of Reported Bioactivities and Medicinal Properties of Walnut. Journal of Biologically Active Products From Nature, 2019, 9, 410-425.	0.3	5
42	Petri Net and Probabilistic Model Checking Based Approach for the Modelling, Simulation and Verification of Internet Worm Propagation. PLoS ONE, 2015, 10, e0145690.	2.5	5
43	Formal verification of sequence diagram using DiVinE. , 2014, , .		4
44	Modeling and analysis of innate immune responses induced by the host cells against hepatitis C virus infection. Integrative Biology (United Kingdom), 2015, 7, 544-559.	1.3	4
45	Formal Modeling of mTOR Associated Biological Regulatory Network Reveals Novel Therapeutic Strategy for the Treatment of Cancer. Frontiers in Physiology, 2017, 8, 416.	2.8	4
46	Formal Modeling and Analysis of Biological Regulatory Networks Using SPIN. , 2011, , .		3
47	Real Time Modeling of Interlocking Control System of Rawalpindi Cantt Train Yard. , 2015, , .		3
48	Computational modeling and analysis of the impacts of sleep deprivation on glucose stimulated insulin secretion. BioSystems, 2019, 179, 1-14.	2.0	3
49	Long nonâ€coding RNAs and their targets as potential biomarkers in breast cancer. IET Systems Biology, 2021, 15, 137-147.	1.5	3
50	Invariance Kernel of Biological Regulatory Networks. , 2008, , .		2
51	Parametric linear hybrid automata for complex environmental systems modeling. Frontiers in Environmental Science, 2015, 3, .	3.3	2
52	Modeling and analysis of the signaling crosstalk of PI3K, AMPK and MAPK with Timed Hybrid Petri Nets approach. , 2017, , .		2
53	Incorporating Time Delays in Process Hitting Framework for Dynamical Modeling of Large Biological Regulatory Networks. Frontiers in Physiology, 2019, 10, 90.	2.8	2
54	Identification of self-regulatory network motifs in reverse engineering gene regulatory networks using microarray gene expression data. IET Systems Biology, 2019, 13, 55-68.	1.5	2

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55	MicroRNAs and their target mRNAs as potential biomarkers among smokers and non-smokers with lung adenocarcinoma. IET Systems Biology, 2019, 13, 69-76.	1.5	2
56	Pan-genomics of plant pathogens and its applications. , 2020, , 121-145.		2
57	Modeling and analysis of the impacts of jet lag on circadian rhythm and its role in tumor growth. PeerJ, 2018, 6, e4877.	2.0	2
58	Petri Net modelling approach for analysing the behaviour of Wnt/ â€catenin and Wnt/ Ca 2+ signalling pathways in arrhythmogenic right ventricular cardiomyopathy. IET Systems Biology, 2020, 14, 350-367.	1.5	2
59	Discrete modelling of p53-Mdm2 feedback loop. , 2011, , .		1
60	Dynamical modeling of the biological regulatory network of NF-kB activation in HIV-1. , 2011, , .		1
61	Identification of crosstalk in Insulin pathway using Pathway Logic. , 2013, , .		1
62	Formal Modeling of the Key Determinants of Hepatitis C Virus (HCV) Induced Adaptive Immune Response Network: An Integrative Approach to Map the Cellular and Cytokine-Mediated Host Immune Regulations. Lecture Notes in Computer Science, 2018, , 635-649.	1.3	1
63	Deciphering the Role of PKC in Calpain-CAST System Through Formal Modeling Approach. Lecture Notes in Computer Science, 2019, , 60-71.	1.3	1
64	Parallel Computation on Large-Scale DNA Sequences. EAI/Springer Innovations in Communication and Computing, 2019, , 55-65.	1.1	1
65	Deciphering the expression dynamics of ANGPTL8 associated regulatory network in insulin resistance using formal modelling approaches. IET Systems Biology, 2020, 14, 47-58.	1.5	1
66	Qualitative modelling and analysis of the regulatory network of indoleamine 2, 3-dioxygenase in tumour immune escape. , 2011, , .		0
67	Discovery of medical experts. , 2013, , .		0
68	Hybrid modeling of p53 and Akt associated gene regulatory network. , 2014, , .		0
69	Multivariate Covariance using Principal Component Analysis for Reconstruction of Bidirected Gene Regulatory Networks. , 2017, , .		0
70	On the Use of Betweenness Centrality for Selection of Plausible Trajectories in Qualitative Biological Regulatory Networks. Lecture Notes in Computer Science, 2018, , 543-552.	1.3	0
71	3D Structure Determination and Validation of mTORC2 using Computational Modeling Techniques. , 2019, , .		0