

Kazuhiro Takemoto

List of Publications by Citations

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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.

62 papers	906 citations	17 h-index	28 g-index
67 ext. papers	1,198 ext. citations	3.4 avg, IF	4.94 L-index

#	Paper	IF	Citations
62	PREvall, an integrative approach for inferring catalytic residues using sequence, structural, and network features in a machine-learning framework. <i>Journal of Theoretical Biology</i> , 2018 , 443, 125-137	2.3	106
61	Identification of chemogenomic features from drug-target interaction networks using interpretable classifiers. <i>Bioinformatics</i> , 2012 , 28, i487-i494	7.2	61
60	Difficulty in inferring microbial community structure based on co-occurrence network approaches. <i>BMC Bioinformatics</i> , 2019 , 20, 329	3.6	53
59	HSEpred: predict half-sphere exposure from protein sequences. <i>Bioinformatics</i> , 2008 , 24, 1489-97	7.2	42
58	An automated system for evaluation of the potential functionome: MAPLE version 2.1.0. <i>DNA Research</i> , 2016 , 23, 467-475	4.5	40
57	FunSAV: predicting the functional effect of single amino acid variants using a two-stage random forest model. <i>PLoS ONE</i> , 2012 , 7, e43847	3.7	36
56	Finding Minimum Reaction Cuts of Metabolic Networks Under a Boolean Model Using Integer Programming and Feedback Vertex Sets. <i>International Journal of Knowledge Discovery in Bioinformatics</i> , 2010 , 1, 14-31		35
55	Correlation between structure and temperature in prokaryotic metabolic networks. <i>BMC Bioinformatics</i> , 2007 , 8, 303	3.6	30
54	MAPLE 2.3.0: an improved system for evaluating the functionomes of genomes and metagenomes. <i>Bioscience, Biotechnology and Biochemistry</i> , 2018 , 82, 1515-1517	2.1	28
53	An integrative computational framework based on a two-step random forest algorithm improves prediction of zinc-binding sites in proteins. <i>PLoS ONE</i> , 2012 , 7, e49716	3.7	23
52	Universal adversarial attacks on deep neural networks for medical image classification. <i>BMC Medical Imaging</i> , 2021 , 21, 9	2.9	23
51	Human Impacts and Climate Change Influence Nestedness and Modularity in Food-Web and Mutualistic Networks. <i>PLoS ONE</i> , 2016 , 11, e0157929	3.7	22
50	Heterogeneity in ecological mutualistic networks dominantly determines community stability. <i>Scientific Reports</i> , 2014 , 4, 5912	4.9	21
49	Global COVID-19 transmission rate is influenced by precipitation seasonality and the speed of climate temperature warming		18
48	Large-scale aggregation analysis of eukaryotic proteins reveals an involvement of intrinsically disordered regions in protein folding. <i>Scientific Reports</i> , 2018 , 8, 678	4.9	17
47	Climatic seasonality may affect ecological network structure: food webs and mutualistic networks. <i>BioSystems</i> , 2014 , 121, 29-37	1.9	17
46	Modular organization of cancer signaling networks is associated with patient survivability. <i>BioSystems</i> , 2013 , 113, 149-54	1.9	17

45	Metabolic network modularity in archaea depends on growth conditions. <i>PLoS ONE</i> , 2011 , 6, e25874	3.7	17
44	Modeling for evolving biological networks with scale-free connectivity, hierarchical modularity, and disassortativity. <i>Mathematical Biosciences</i> , 2007 , 208, 454-68	3.9	16
43	Functional Classification of Uncultured "Candidatus Caldiarchaeum subterraneum" Using the Maple System. <i>PLoS ONE</i> , 2015 , 10, e0132994	3.7	16
42	Evolving networks by merging cliques. <i>Physical Review E</i> , 2005 , 72, 046116	2.4	14
41	Vulnerability of deep neural networks for detecting COVID-19 cases from chest X-ray images to universal adversarial attacks. <i>PLoS ONE</i> , 2020 , 15, e0243963	3.7	14
40	Does habitat variability really promote metabolic network modularity?. <i>PLoS ONE</i> , 2013 , 8, e61348	3.7	13
39	Data integration aids understanding of butterfly-host plant networks. <i>Scientific Reports</i> , 2017 , 7, 43368	4.9	12
38	Simple Iterative Method for Generating Targeted Universal Adversarial Perturbations. <i>Algorithms</i> , 2020 , 13, 268	1.8	12
37	Current understanding of the formation and adaptation of metabolic systems based on network theory. <i>Metabolites</i> , 2012 , 2, 429-57	5.6	12
36	Metabolic network modularity arising from simple growth processes. <i>Physical Review E</i> , 2012 , 86, 036107	2.4	11
35	Difference in the distribution pattern of substrate enzymes in the metabolic network of <i>Escherichia coli</i> , according to chaperonin requirement. <i>BMC Systems Biology</i> , 2011 , 5, 98	3.5	11
34	Nested structure acquired through simple evolutionary process. <i>Journal of Theoretical Biology</i> , 2010 , 264, 782-6	2.3	11
33	Origin of structural difference in metabolic networks with respect to temperature. <i>BMC Systems Biology</i> , 2008 , 2, 82	3.5	11
32	Structure of n-clique networks embedded in a complex network. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2007 , 380, 665-672	3.3	11
31	Brain structural connectivity and neuroticism in healthy adults. <i>Scientific Reports</i> , 2018 , 8, 16491	4.9	11
30	A network biology-based approach to evaluating the effect of environmental contaminants on human interactome and diseases. <i>Ecotoxicology and Environmental Safety</i> , 2018 , 160, 316-327	7	11
29	Metabolic networks are almost nonfractal: a comprehensive evaluation. <i>Physical Review E</i> , 2014 , 90, 022802	4.2	9
28	Heterogeneous distribution of metabolites across plant species. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2009 , 388, 2771-2780	3.3	9

27	Introduction to Complex Networks: Measures, Statistical Properties, and Models 2012 , 45-75		8
26	Prediction of Protein Folding Rates from Structural Topology and Complex Network Properties. <i>IPSJ Transactions on Bioinformatics</i> , 2010 , 3, 40-53	1.3	8
25	Analysis of the Effect of Degree Correlation on the Size of Minimum Dominating Sets in Complex Networks. <i>PLoS ONE</i> , 2016 , 11, e0157868	3.7	8
24	Limited influence of oxygen on the evolution of chemical diversity in metabolic networks. <i>Metabolites</i> , 2013 , 3, 979-92	5.6	7
23	Measuring Structural Robustness of Metabolic Networks under a Boolean Model Using Integer Programming and Feedback Vertex Sets 2009 ,		6
22	Network resilience of mutualistic ecosystems and environmental changes: an empirical study. <i>Royal Society Open Science</i> , 2018 , 5, 180706	3.3	6
21	Decomposing the effects of ocean environments on predator-prey body-size relationships in food webs. <i>Royal Society Open Science</i> , 2018 , 5, 180707	3.3	5
20	The proportion of genes in a functional category is linked to mass-specific metabolic rate and lifespan. <i>Scientific Reports</i> , 2015 , 5, 10008	4.9	5
19	Importance of metabolic rate to the relationship between the number of genes in a functional category and body size in Peto's paradox for cancer. <i>Royal Society Open Science</i> , 2016 , 3, 160267	3.3	4
18	Theoretical estimation of metabolic network robustness against multiple reaction knockouts using branching process approximation. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2013 , 392, 5525-5535	3.3	4
17	Global architecture of metabolite distributions across species and its formation mechanisms. <i>BioSystems</i> , 2010 , 100, 8-13	1.9	4
16	Revisiting the hypothesis of an energetic barrier to genome complexity between eukaryotes and prokaryotes. <i>Royal Society Open Science</i> , 2020 , 7, 191859	3.3	4
15	Exosomes in mammals with greater habitat variability contain more proteins and RNAs. <i>Royal Society Open Science</i> , 2017 , 4, 170162	3.3	3
14	Habitat variability does not generally promote metabolic network modularity in flies and mammals. <i>BioSystems</i> , 2016 , 139, 46-54	1.9	3
13	Analysis of the impact degree distribution in metabolic networks using branching process approximation. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2012 , 391, 379-387	3.3	3
12	Limitations of a metabolic network-based reverse ecology method for inferring host-pathogen interactions. <i>BMC Bioinformatics</i> , 2017 , 18, 278	3.6	3
11	Heterogeneity of cells may explain allometric scaling of metabolic rate. <i>BioSystems</i> , 2015 , 130, 11-6	1.9	3
10	The brain-derived neurotrophic factor Val66Met polymorphism increases segregation of structural correlation networks in healthy adult brains. <i>PeerJ</i> , 2020 , 8, e9632	3.1	3

9	Systematic Protein Level Regulation via Degradation Machinery Induced by Genotoxic Drugs. <i>Journal of Proteome Research</i> , 2016 , 15, 205-15	5.6	2
8	Natural Images Allow Universal Adversarial Attacks on Medical Image Classification Using Deep Neural Networks with Transfer Learning.. <i>Journal of Imaging</i> , 2022 , 8,	3.1	2
7	Ecological Networks 2019 , 1131-1141		1
6	Finding Minimum Reaction Cuts of Metabolic Networks Under a Boolean Model240-258		1
5	Backdoor Attacks to Deep Neural Network-Based System for COVID-19 Detection from Chest X-ray Images. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 9556	2.6	1
4	Diversity of Dominant Soil Bacteria Increases with Warming Velocity at the Global Scale. <i>Diversity</i> , 2021 , 13, 120	2.5	1
3	Modeling for Evolving Biological Networks77-108		1
2	Simple Black-Box Universal Adversarial Attacks on Deep Neural Networks for Medical Image Classification. <i>Algorithms</i> , 2022 , 15, 144	1.8	0
1	Finding Minimum Reaction Cuts of Metabolic Networks Under a Boolean Model Using Integer Programming and Feedback Vertex Sets774-791		