

Alpan Raval

List of Publications by Year in descending order

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Version: 2024-02-01

31
papers

1,896
citations

361413

20
h-index

414414

32
g-index

36
all docs

36
docs citations

36
times ranked

2586
citing authors

#	ARTICLE	IF	CITATIONS
1	A Single Determinant Dominates the Rate of Yeast Protein Evolution. <i>Molecular Biology and Evolution</i> , 2006, 23, 327-337.	8.9	373
2	Refinement of protein structure homology models via long, all-atom molecular dynamics simulations. <i>Proteins: Structure, Function and Bioinformatics</i> , 2012, 80, 2071-2079.	2.6	226
3	Identifying Hubs in Protein Interaction Networks. <i>PLoS ONE</i> , 2009, 4, e5344.	2.5	163
4	Nonperturbative effects of vacuum energy on the recent expansion of the universe. <i>Physical Review D</i> , 1999, 60, .	4.7	154
5	Thermodynamics of Neutral Protein Evolution. <i>Genetics</i> , 2007, 175, 255-266.	2.9	137
6	Evolution favors protein mutational robustness in sufficiently large populations. <i>BMC Biology</i> , 2007, 5, 29.	3.8	100
7	Stochastic theory of accelerated detectors in a quantum field. <i>Physical Review D</i> , 1996, 53, 7003-7019.	4.7	77
8	Near-thermal radiation in detectors, mirrors, and black holes: A stochastic approach. <i>Physical Review D</i> , 1997, 55, 4795-4812.	4.7	65
9	Mining protein networks for synthetic genetic interactions. <i>BMC Bioinformatics</i> , 2008, 9, 426.	2.6	59
10	New quantum aspects of a vacuum-dominated universe. <i>Physical Review D</i> , 2000, 62, .	4.7	52
11	Detection of genomic islands via segmental genome heterogeneity. <i>Nucleic Acids Research</i> , 2009, 37, 5255-5266.	14.5	51
12	PathSys: integrating molecular interaction graphs for systems biology. <i>BMC Bioinformatics</i> , 2006, 7, 55.	2.6	50
13	A New Look at the Accelerating Universe. <i>Physical Review Letters</i> , 2001, 86, 749-752.	7.8	46
14	Predicting the Tolerance of Proteins to Random Amino Acid Substitution. <i>Biophysical Journal</i> , 2005, 89, 3714-3720.	0.5	40
15	Vacuum effects of an ultralow mass particle account for the recent acceleration of the universe. <i>Physical Review D</i> , 1999, 60, .	4.7	39
16	Black Hole Fluctuations and Backreaction in Stochastic Gravity. <i>Foundations of Physics</i> , 2003, 33, 37-64.	1.3	39
17	Proteomic profiling of aging in the mouse heart: Altered expression of mitochondrial proteins. <i>Archives of Biochemistry and Biophysics</i> , 2008, 474, 22-31.	3.0	39
18	Assessment of the utility of contact-based restraints in accelerating the prediction of protein structure using molecular dynamics simulations. <i>Protein Science</i> , 2016, 25, 19-29.	7.6	26

#	ARTICLE	IF	CITATIONS
19	Some asymptotic properties of duplication graphs. <i>Physical Review E</i> , 2003, 68, 066119.	2.1	23
20	Proteome profiling of aging in mouse models: Differential expression of proteins involved in metabolism, transport, and stress response in kidney. <i>Proteomics</i> , 2009, 9, 580-597.	2.2	21
21	A genome wide dosage suppressor network reveals genomic robustness. <i>Nucleic Acids Research</i> , 2017, 45, 255-270.	14.5	13
22	Molecular Clock on a Neutral Network. <i>Physical Review Letters</i> , 2007, 99, 138104.	7.8	11
23	Computational Modeling in Systems Biology. <i>Methods in Molecular Biology</i> , 2010, 662, 97-120.	0.9	11
24	Thermal particle creation in cosmological spacetimes: A stochastic approach. <i>Physical Review D</i> , 1997, 56, 4905-4915.	4.7	9
25	Differential hepatic protein tyrosine nitration of mouse due to aging – Effect on mitochondrial energy metabolism, quality control machinery of the endoplasmic reticulum and metabolism of drugs. <i>Biochemical and Biophysical Research Communications</i> , 2013, 430, 231-235.	2.1	9
26	A highly uniform UV transillumination imaging system for quantitative analysis of nucleic acids and proteins. <i>Proteomics</i> , 2008, 8, 1789-1797.	2.2	8
27	THERMAL RADIANCE FROM BLACK HOLE AND COSMOLOGICAL SPACETIMES: A UNIFIED VIEW. <i>Modern Physics Letters A</i> , 1996, 11, 2625-2638.	1.2	7
28	Bayesian Monte Carlo estimation for profile hidden Markov models. <i>Mathematical and Computer Modelling</i> , 2008, 47, 1198-1216.	2.0	6
29	Relation between Einstein and quantum field equations. <i>Physical Review D</i> , 1998, 57, 7327-7339.	4.7	3
30	Adaptive COVID-19 Forecasting via Bayesian Optimization. , 2021, , .		3
31	IS THERE EMITTED RADIATION IN UNRUH EFFECT?. , 2002, , .		0