John L Spouge

List of Publications by Year in descending order

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74 papers 7,230 citations

279798 23 h-index 70 g-index

80 all docs 80 docs citations

80 times ranked 9949 citing authors

#	Article	IF	CITATIONS
1	Nuclear ribosomal internal transcribed spacer (ITS) region as a universal DNA barcode marker for <i>Fungi</i> . Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 6241-6246.	7.1	4,012
2	Hydrophobicity scales and computational techniques for detecting amphipathic structures in proteins. Journal of Molecular Biology, 1987, 195, 659-685.	4.2	627
3	CBOL Protist Working Group: Barcoding Eukaryotic Richness beyond the Animal, Plant, and Fungal Kingdoms. PLoS Biology, 2012, 10, e1001419.	5.6	488
4	Exact solutions for a diffusion-reaction process in one dimension. Physical Review Letters, 1988, 60, 871-874.	7.8	220
5	HIV requires multiple gp120 molecules for CD4-mediated infection. Nature, 1990, 346, 277-279.	27.8	209
6	Finding functional sequence elements by multiple local alignment. Nucleic Acids Research, 2004, 32, 189-200.	14.5	195
7	Protein Antigenic Structures Recognized by T Cells; Potential Applications to Vaccine Design. Immunological Reviews, 1987, 98, 9-52.	6.0	144
8	Discovery of Kaposi's sarcoma herpesvirus-encoded circular RNAs and a human antiviral circular RNA. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 12805-12810.	7.1	144
9	Lineage-Specific Gene Expansions in Bacterial and Archaeal Genomes. Genome Research, 2001, 11, 555-565.	5.5	110
10	Statistical analysis of over-represented words in human promoter sequences. Nucleic Acids Research, 2004, 32, 949-958.	14.5	108
11	Statistical significance of clusters of motifs represented by position specific scoring matrices in nucleotide sequences. Nucleic Acids Research, 2002, 30, 3214-3224.	14.5	106
12	Candidate Regulatory Sequence Elements for Cell Cycle-Dependent Transcription in <i>Saccharomyces cerevisiae</i> . Genome Research, 1999, 9, 775-792.	5.5	69
13	An existence theorem for the discrete coagulation-fragmentation equations. Mathematical Proceedings of the Cambridge Philosophical Society, 1984, 96, 351-357.	0.4	56
14	Computation of the Gamma, Digamma, and Trigamma Functions. SIAM Journal on Numerical Analysis, 1994, 31, 931-944.	2.3	47
15	HIV-1 infection kinetics in tissue cultures. Mathematical Biosciences, 1996, 138, 1-22.	1.9	46
16	Monte Carlo results for random coagulation. Journal of Colloid and Interface Science, 1985, 107, 38-43.	9.4	42
17	A New Method for Estimating Species Age Supports the Coexistence of Malaria Parasites and Their Mammalian Hosts. Molecular Biology and Evolution, 2015, 32, 1354-1364.	8.9	39
18	Single-particle survival in gated trapping. Physical Review E, 1996, 54, 2248-2255.	2.1	37

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19	Frameshift alignment: statistics and post-genomic applications. Bioinformatics, 2014, 30, 3575-3582.	4.1	35
20	The size distribution for the Ag RB f?g Model of polymerization. Journal of Statistical Physics, 1983 , 31 , $363-378$.	1.2	27
21	Speeding up Dynamic Programming Algorithms for Finding Optimal Lattice Paths. SIAM Journal on Applied Mathematics, 1989, 49, 1552-1566.	1.8	27
22	Asymmetric bonding of identical units: a general AgRBf-g polymer model. Macromolecules, 1983, 16, 831-835.	4.8	26
23	Equilibrium ring formation in polymer solutions. Journal of Statistical Physics, 1986, 43, 143-196.	1.2	25
24	Threshold Average Precision (TAP-k): a measure of retrieval designed for bioinformatics. Bioinformatics, 2010, 26, 1708-1713.	4.1	25
25	Fungi in Thailand: A Case Study of the Efficacy of an ITS Barcode for Automatically Identifying Species within the Annulohypoxylon and Hypoxylon Genera. PLoS ONE, 2013, 8, e54529.	2.5	25
26	The whole alignment and nothing but the alignment: the problem of spurious alignment flanks. Nucleic Acids Research, 2008, 36, 5863-5871.	14.5	22
27	Conserved Molecular Signatures in gp120 Are Associated with the Genetic Bottleneck during Simian Immunodeficiency Virus (SIV), SIV-Human Immunodeficiency Virus (SHIV), and HIV Type 1 (HIV-1) Transmission. Journal of Virology, 2015, 89, 3619-3629.	3.4	22
28	The Gumbel pre-factor k for gapped local alignment can be estimated from simulations of global alignment. Nucleic Acids Research, 2005, 33, 4987-4994.	14.5	20
29	Polymers and random graphs: Asymptotic equivalence to branching processes. Journal of Statistical Physics, 1985, 38, 573-587.	1.2	19
30	The biological function of some human transcription factor binding motifs varies with position relative to the transcription start site. Nucleic Acids Research, 2008, 36, 2777-2786.	14.5	19
31	The identification of complete domains within protein sequences using accurate E-values for semi-global alignment. Nucleic Acids Research, 2007, 35, 4678-4685.	14.5	15
32	New finite-size correction for local alignment score distributions. BMC Research Notes, 2012, 5, 286.	1.4	14
33	The Practical Evaluation of DNA Barcode Efficacy. Methods in Molecular Biology, 2012, 858, 365-377.	0.9	12
34	Patterns of conserved gp120 epitope presentation on attached HIV-1 virions. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E9893-E9902.	7.1	12
35	A comprehensive estimation of country-level basic reproduction numbers RO for COVID-19: Regime regression can automatically estimate the end of the exponential phase in epidemic data. PLoS ONE, 2021, 16, e0254145.	2.5	12
36	Estimating the Gumbel scale parameter for local alignment of random sequences by importance sampling with stopping times. Annals of Statistics, 2009, 37, 3697.	2.6	11

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37	Analytic results for finite systems of ringed flory polymers. Canadian Journal of Chemistry, 1984, 62, 1262-1264.	1.1	10
38	The correlation error and finite-size correction in an ungapped sequence alignment. Bioinformatics, 2002, 18, 1236-1242.	4.1	10
39	Empirical Null Estimation Using Zero-inflated Discrete Mixture Distributions and Its Application to Protein Domain Data. Biometrics, 2018, 74, 458-471.	1.4	9
40	Increasing stability with complexity in a system composed of unstable subsystems. Journal of Mathematical Analysis and Applications, 1986, 118, 502-518.	1.0	8
41	A cytopathic infectivity assay of human immunodeficiency virus type 1 in human primary macrophages. Journal of Virological Methods, 1996, 59, 45-55.	2.1	8
42	Single-particle survival in parallel gated trapping. Physical Review E, 1997, 55, 421-425.	2.1	8
43	A branching-process solution of the polydisperse coagulation equation. Advances in Applied Probability, 1984, 16, 56-69.	0.7	7
44	ALP & C++ libraries for pairwise local alignment <i>E</i> -values. Bioinformatics, 2016, 32, 304-305.	4.1	7
45	Figures of merit and statistics for detecting faulty species identification with DNA barcodes: A case study in Ramaria and related fungal genera. PLoS ONE, 2020, 15, e0237507.	2.5	7
46	Hemolysis Pathways during Storage of Erythrocytes and Inter-Donor Variability in Erythrocyte Morphology. Transfusion Medicine and Hemotherapy, 2021, 48, 39-47.	1.6	7
47	Finite-size corrections to Poisson approximations of rare events in renewal processes. Journal of Applied Probability, 2001, 38, 554-569.	0.7	7
48	Conserved signatures indicate HIV-1 transmission is under strong selection and thus is not a "stochastic―process. Retrovirology, 2017, 14, 13.	2.0	6
49	Alignment-free genome comparison enables accurate geographic sourcing of white oak DNA. BMC Genomics, 2018, 19, 896.	2.8	6
50	Stochastically Gated Chemical Reactions. Journal of Physical Chemistry B, 1997, 101, 5026-5030.	2.6	5
51	Finite-size corrections to Poisson approximations of rare events in renewal processes. Journal of Applied Probability, 2001, 38, 554-569.	0.7	5
52	Accelerated convergence and robust asymptotic regression of the Gumbel scale parameter for gapped sequence alignment. Journal of Physics A, 2005, 38, 97-108.	1.6	5
53	Within a sample from a population, the distribution of the number of descendants of a subsample's most recent common ancestor. Theoretical Population Biology, 2014, 92, 51-54.	1.1	5
54	Searching for Multiple Words in a Markov Sequence. INFORMS Journal on Computing, 2004, 16, 341-347.	1.7	4

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55	Path reversal, islands, and the gapped alignment of random sequences. Journal of Applied Probability, 2004, 41, 975-983.	0.7	4
56	Objective method for estimating asymptotic parameters, with an application to sequence alignment. Physical Review E, 2011, 84, 031914.	2.1	4
57	A practical method for simultaneously determining the effective burst sizes and cycle times of viruses. Proceedings of the National Academy of Sciences of the United States of America, 1999, 96, 7017-7022.	7.1	3
58	Markov Additive Processes and Repeats in Sequences. Journal of Applied Probability, 2007, 44, 514-527.	0.7	3
59	Markov Additive Processes and Repeats in Sequences. Journal of Applied Probability, 2007, 44, 514-527.	0.7	3
60	Measurement of a Barcode's Accuracy in Identifying Species. , 2016, , 29-41.		3
61	Increase of Primary HIV-1 Production in Human Peripheral Blood Mononuclear Cells by Intermittent Medium Replenishment. Biotechnology Progress, 1998, 14, 540-542.	2.6	2
62	Finite-size corrections to Poisson approximations in general renewal-success processes. Journal of Mathematical Analysis and Applications, 2005, 301, 401-418.	1.0	2
63	Inequalities on the overshoot beyond a boundary for independent summands with differing distributions. Statistics and Probability Letters, 2007, 77, 1486-1489.	0.7	2
64	The ruzzo-tompa algorithm can find the maximal paths in weighted, directed graphs on a one-dimensional lattice. , 2012, , .		2
65	Searching for repeats, as an example of using the generalised Ruzzo-Tompa algorithm to find optimal subsequences with gaps. International Journal of Bioinformatics Research and Applications, 2014, 10, 384.	0.2	2
66	An accurate approximation for the expected site frequency spectrum in a Galton–Watson process under an infinite sites mutation model. Theoretical Population Biology, 2019, 127, 7-15.	1.1	2
67	Changes in the Plasticity of HIV-1 Nef RNA during the Evolution of the North American Epidemic. PLoS ONE, 2016, 11, e0163688.	2.5	2
68	The combinatorics and extreme value statistics of protein threading. Annals of Combinatorics, 1999, 3, 81-93.	0.6	1
69	Path reversal, islands, and the gapped alignment of random sequences. Journal of Applied Probability, 2004, 41, 975-983.	0.7	1
70	Most of the tight positional conservation of transcription factor binding sites near the transcription start site reflects their co-localization within regulatory modules. BMC Bioinformatics, 2016, 17, 479.	2.6	1
71	Structural prediction of RNA switches using conditional base-pair probabilities. PLoS ONE, 2019, 14, e0217625.	2.5	1
72	MultiDomainBenchmark: a multi-domain query and subject database suite. BMC Bioinformatics, 2019, 20, 77.	2.6	1

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73	Estimating the basic reproduction number of a pathogen in a single host when only a single founder successfully infects. PLoS ONE, 2020, 15, e0227127.	2.5	0
74	A linear-time algorithm that avoids inverses and computes Jackknife (leave-one-out) products like convolutions or other operators in commutative semigroups. Algorithms for Molecular Biology, 2020, 15, 17.	1.2	0