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List of Publications by Year in descending order

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Version: 2024-02-01

78
papers

1,123
citations

471509

17
h-index

477307

29
g-index

84
all docs

84
docs citations

84
times ranked

967
citing authors

#	ARTICLE	IF	CITATIONS
1	Poincar̃ plot indexes of heart rate variability capture dynamic adaptations after haemodialysis in chronic renal failure patients. <i>Clinical Physiology and Functional Imaging</i> , 2003, 23, 72-80.	1.2	113
2	Limitations of current diagnostic procedures for the diagnosis of <i>Taenia solium</i> cysticercosis in rural pigs. <i>Veterinary Parasitology</i> , 1998, 79, 299-313.	1.8	80
3	Origin and Evolution of RNA-Dependent RNA Polymerase. <i>Frontiers in Genetics</i> , 2017, 8, 125.	2.3	61
4	The genome project of <i>Taenia solium</i> . <i>Parasitology International</i> , 2006, 55, S127-S130.	1.3	49
5	Origin and evolution of the Peptidyl Transferase Center from protõtRNAs. <i>FEBS Open Bio</i> , 2014, 4, 175-178.	2.3	49
6	Randomised trial of albendazole and pyrantel in symptomless trichuriasis in children. <i>Lancet</i> , The, 1998, 352, 1103-1108.	13.7	41
7	Scaling properties and symmetrical patterns in the epidemiology of rotavirus infection. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2003, 358, 1625-1641.	4.0	30
8	Human tumor growth is inhibited by a vaccinia virus carrying the E2 gene of bovine papillomavirus. , 2000, 88, 1650-1662.		28
9	A Mathematical Analysis for the Cardiovascular Control Adaptations in Chronic Renal Failure. <i>Artificial Organs</i> , 2004, 28, 398-409.	1.9	27
10	Inhibitory Role of Antibodies in the Development of <i>Taenia solium</i> and <i>Taenia crassiceps</i> Toward Reproductive and Pathogenic Stages. <i>Journal of Parasitology</i> , 2001, 87, 582-586.	0.7	26
11	tRNA Core Hypothesis for the Transition from the RNA World to the Ribonucleoprotein World. <i>Life</i> , 2016, 6, 15.	2.4	26
12	An Extended RNA Code and its Relationship to the Standard Genetic Code: An Algebraic and Geometrical Approach. <i>Bulletin of Mathematical Biology</i> , 2007, 69, 215-243.	1.9	24
13	Nonlinear dynamics of heart rate variability in response to orthostatism and hemodialysis in chronic renal failure patients: Recurrence analysis approach. <i>Medical Engineering and Physics</i> , 2013, 35, 178-187.	1.7	24
14	Vaccination against <i>Taenia solium</i> cysticercosis in underfed rustic pigs of M̃xico: roles of age, genetic background and antibody response. <i>Veterinary Parasitology</i> , 2000, 90, 209-219.	1.8	23
15	A unified model of the standard genetic code. <i>Royal Society Open Science</i> , 2017, 4, 160908.	2.4	23
16	On the Evolution of the Standard Genetic Code: Vestiges of Critical Scale Invariance from the RNA World in Current Prokaryote Genomes. <i>PLoS ONE</i> , 2009, 4, e4340.	2.5	23
17	Evolution of transfer RNA and the origin of the translation system. <i>Frontiers in Genetics</i> , 2014, 5, 303.	2.3	20
18	How to eliminate taeniasis/cysticercosis: porcine vaccination and human chemotherapy (Part 2). <i>Theoretical Biology and Medical Modelling</i> , 2019, 16, 4.	2.1	18

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19	Analysis of bilateral inverse symmetry in whole bacterial chromosomes. <i>Biochemical and Biophysical Research Communications</i> , 2002, 299, 126-134.	2.1	17
20	Three-base periodicity patterns and self-similarity in whole bacterial chromosomes. <i>Biochemical and Biophysical Research Communications</i> , 2004, 325, 467-478.	2.1	17
21	The Ancient History of Peptidyl Transferase Center Formation as Told by Conservation and Information Analyses. <i>Life</i> , 2020, 10, 134.	2.4	17
22	Transfer RNA: The molecular demiurge in the origin of biological systems. <i>Progress in Biophysics and Molecular Biology</i> , 2020, 153, 28-34.	2.9	17
23	Multiple Origins of Extracellular DNA Traps. <i>Frontiers in Immunology</i> , 2021, 12, 621311.	4.8	17
24	The Spike Protein of SARS-CoV-2 Is Adapting Because of Selective Pressures. <i>Vaccines</i> , 2022, 10, 864.	4.4	17
25	Alternative interpretation of unusual scatchard plots: contribution of interactions and heterogeneity. <i>Mathematical Biosciences</i> , 1982, 58, 159-170.	1.9	16
26	Genetic Hotels for the Standard Genetic Code: Evolutionary Analysis Based upon Novel Three-Dimensional Algebraic Models. <i>Bulletin of Mathematical Biology</i> , 2011, 73, 1443-1476.	1.9	16
27	A proposal of the proteome before the last universal common ancestor (LUCA). <i>International Journal of Astrobiology</i> , 2016, 15, 27-31.	1.6	16
28	Origin of the 16S Ribosomal Molecule from Ancestor tRNAs. <i>Sci</i> , 2019, 1, 8.	3.0	16
29	Mathematical model of the life cycle of taenia-cysticercosis: transmission dynamics and chemotherapy (Part 1). <i>Theoretical Biology and Medical Modelling</i> , 2018, 15, 18.	2.1	14
30	Epidemiological model of diarrhoeal diseases and its application in prevention and control. <i>Vaccine</i> , 1994, 12, 109-116.	3.8	13
31	Peptidyl Transferase Center and the Emergence of the Translation System. <i>Life</i> , 2017, 7, 21.	2.4	13
32	Neutral evolution test of the spike protein of SARS-CoV-2 and its implications in the binding to ACE2. <i>Scientific Reports</i> , 2021, 11, 18847.	3.3	13
33	Symmetrical and Thermodynamic Properties of Phenotypic Graphs of Amino Acids Encoded by the Primeval RNY Code. <i>Origins of Life and Evolution of Biospheres</i> , 2015, 45, 77-83.	1.9	12
34	Preserved autonomic heart rate modulation in chronic renal failure patients in response to hemodialysis and orthostatism. <i>Clinical and Experimental Nephrology</i> , 2015, 19, 309-318.	1.6	12
35	On the Uniqueness of the Standard Genetic Code. <i>Life</i> , 2017, 7, 7.	2.4	12
36	Three-Dimensional Algebraic Models of the tRNA Code and 12 Graphs for Representing the Amino Acids. <i>Life</i> , 2014, 4, 341-373.	2.4	11

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37	Effects of Orthostatism and Hemodialysis on Mean Heart Period and Fractal Heart Rate Properties of Chronic Renal Failure Patients. <i>Artificial Organs</i> , 2017, 41, 1026-1034.	1.9	11
38	Identity Elements of tRNA as Derived from Information Analysis. <i>Origins of Life and Evolution of Biospheres</i> , 2018, 48, 73-81.	1.9	11
39	Origin of the 16S Ribosomal Molecule from Ancestor tRNAs. <i>Journal of Molecular Evolution</i> , 2021, 89, 249-256.	1.8	9
40	Is it possible that cells have had more than one origin?. <i>BioSystems</i> , 2021, 202, 104371.	2.0	9
41	Structural evolution of Glycyl-tRNA synthetases alpha subunit and its implication in the initial organization of the decoding system. <i>Progress in Biophysics and Molecular Biology</i> , 2019, 142, 43-50.	2.9	8
42	The Theory of Chemical Symbiosis: A Margulian View for the Emergence of Biological Systems (Origin) Tj ETQq0 0 0 rgBT /Overlock 10 T	1.5	8
43	Ligand binding systems at equilibrium: Specificity, heterogeneity, cross-reactivity, and site-site interactions. <i>Analytical Biochemistry</i> , 1985, 144, 494-503.	2.4	7
44	Statistical properties of DNA sequences revisited: the role of inverse bilateral symmetry in bacterial chromosomes. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2005, 351, 477-498.	2.6	7
45	HIVâ€™1 dynamics at different time scales under antiretroviral therapy. <i>Journal of Theoretical Biology</i> , 2006, 238, 220-229.	1.7	7
46	Periodic Distribution of a Putative Nucleosome Positioning Motif in Human, Nonhuman Primates, and Archaea: Mutual Information Analysis. <i>International Journal of Genomics</i> , 2013, 2013, 1-13.	1.6	7
47	The evolution of proteome: From the primeval to the very dawn of LUCA. <i>BioSystems</i> , 2019, 181, 1-10.	2.0	7
48	Information theory unveils the evolution of tRNA identity elements in the three domains of life. <i>Theory in Biosciences</i> , 2020, 139, 77-85.	1.4	7
49	On the solution of mathematical models of herd immunity in human helminth infections. <i>Journal of Mathematical Biology</i> , 1989, 27, 707-715.	1.9	6
50	From RNA to DNA: Insights about the transition of informational molecule in the biological systems based on the structural proximity between the polymerases. <i>BioSystems</i> , 2021, 206, 104442.	2.0	6
51	Phenotypic Graphs and Evolution Unfold the Standard Genetic Code as the Optimal. <i>Origins of Life and Evolution of Biospheres</i> , 2018, 48, 83-91.	1.9	5
52	A neutral evolution test derived from a theoretical amino acid substitution model. <i>Journal of Theoretical Biology</i> , 2019, 467, 31-38.	1.7	5
53	Statistical analysis of the distribution of amino acids in <i>Borrelia burgdorferi</i> genome under different genetic codes. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2004, 342, 288-293.	2.6	4
54	Human repetitive sequence densities are mostly negatively correlated with R/Y-based nucleosome-positioning motifs and positively correlated with W/S-based motifs. <i>Genomics</i> , 2013, 101, 125-133.	2.9	4

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55	A Proposal of the Ur-proteome. <i>Origins of Life and Evolution of Biospheres</i> , 2018, 48, 245-258.	1.9	4
56	Multivariate Entropy Characterizes the Gene Expression and Protein-Protein Networks in Four Types of Cancer. <i>Entropy</i> , 2018, 20, 154.	2.2	4
57	Novel gene signatures for stage classification of the squamous cell carcinoma of the lung. <i>Scientific Reports</i> , 2021, 11, 4835.	3.3	4
58	Structural Computational Analysis of the Natural History of Class I aminoacyl-tRNA Synthetases Suggests their Role in Establishing the Genetic Code. <i>Journal of Molecular Evolution</i> , 2021, 89, 611-617.	1.8	4
59	Symmetrical Properties of Graph Representations of Genetic Codes: From Genotype to Phenotype. <i>Symmetry</i> , 2018, 10, 388.	2.2	3
60	On the Importance of Asymmetry in the Phenotypic Expression of the Genetic Code upon the Molecular Evolution of Proteins. <i>Symmetry</i> , 2020, 12, 997.	2.2	3
61	Probability Distributions of Thermodynamic Affinities for Heterogeneous Receptor Populations. <i>Journal of Theoretical Biology</i> , 1998, 190, 85-92.	1.7	2
62	Inhibitory Role of Antibodies in the Development of <i>Taenia solium</i> and <i>Taenia crassiceps</i> toward Reproductive and Pathogenic Stages. <i>Journal of Parasitology</i> , 2001, 87, 582.	0.7	2
63	Positive cooperativity induces multimodal site and thermodynamic affinity distributions in multivalent proteins. <i>Analytical Biochemistry</i> , 2003, 313, 226-233.	2.4	2
64	A lattice-based model of rotavirus epidemics. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2006, 359, 525-537.	2.6	2
65	Mutual information analysis reveals bigeminy patterns in Andersen's Tawil syndrome and in subjects with a history of sudden cardiac death. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2012, 391, 693-707.	2.6	2
66	Flow of Information during an Evolutionary Process: The Case of Influenza A Viruses. <i>Entropy</i> , 2013, 15, 3065-3087.	2.2	2
67	Genomic signatures in viral sequences by in-frame and out-frame mutual information. <i>Journal of Theoretical Biology</i> , 2016, 403, 1-9.	1.7	2
68	Rhythms found in human DNA. <i>Physics World</i> , 2004, 17, 26-26.	0.0	1
69	Origin of the 16S Ribosomal Molecule from Ancestor tRNAs. <i>Sci</i> , 2019, 1, 46.	3.0	1
70	Origin of the 16S Ribosomal Molecule from Ancestor tRNAs. <i>Sci</i> , 2020, 2, 69.	3.0	1
71	Treatment of trichuris infection with albendazole. <i>Lancet, The</i> , 1999, 353, 238.	13.7	0
72	Evolution of tRNAs Was Driven by Entropic Forces. , 2016, , 1-7.		0

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73	Anticipation of ventricular tachyarrhythmias by a novel mathematical method: Further insights towards an early warning system in implantable cardioverter defibrillators. PLoS ONE, 2020, 15, e0235101.	2.5	0
74	PROBABILITY DISTRIBUTIONS OF GC CONTENT REFLECT THE EVOLUTION OF PRIMATE SPECIES. , 2014, , .		0
75	Title is missing!. , 2020, 15, e0235101.		0
76	Title is missing!. , 2020, 15, e0235101.		0
77	Title is missing!. , 2020, 15, e0235101.		0
78	Title is missing!. , 2020, 15, e0235101.		0