Ping Ao

List of Publications by Year
in descending order

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		331670	361022
69	1,363	21	35
papers	citations	h-index	g-index

70	70	70	956
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Cancer as robust intrinsic state of endogenous molecular-cellular network shaped by evolution. Medical Hypotheses, 2008, 70, 678-684.	1.5	141
2	Structure of stochastic dynamics near fixed points. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 13029-13033.	7.1	134
3	Tunneling of a quantized vortex: Roles of pinning and dissipation. Physical Review Letters, 1994, 72, 132-135.	7.8	94
4	On the existence of potential landscape in the evolution of complex systems. Complexity, 2007, 12, 19-27.	1.6	74
5	Global view of bionetwork dynamics: adaptive landscape. Journal of Genetics and Genomics, 2009, 36, 63-73.	3.9	68
6	Cancer as robust intrinsic state shaped by evolution: a key issues review. Reports on Progress in Physics, 2017, 80, 042701.	20.1	58
7	Beyond ItÃ´ versus Stratonovich. Journal of Statistical Mechanics: Theory and Experiment, 2012, 2012, P07010.	2.3	49
8	Potential landscape of high dimensional nonlinear stochastic dynamics with large noise. Scientific Reports, 2017, 7, 15762.	3.3	34
9	Identification and Characterization of an Anti-Fibrotic Benzopyran Compound Isolated from Mangrove-Derived Streptomyces xiamenensis. Marine Drugs, 2012, 10, 639-654.	4.6	32
10	Relation of a New Interpretation of Stochastic Differential Equations to Ito Process. Journal of Statistical Physics, 2012, 148, 579-590.	1.2	32
11	Endogenous molecular network reveals two mechanisms of heterogeneity within gastric cancer. Oncotarget, 2015, 6, 13607-13627.	1.8	32
12	Structural diversity of anti-pancreatic cancer capsimycins identified in mangrove-derived Streptomyces xiamenensis 318 and post-modification via a novel cytochrome P450 monooxygenase. Scientific Reports, 2017, 7, 40689.	3.3	31
13	Noise in a small genetic circuit that undergoes bifurcation. Complexity, 2005, 11, 45-51.	1.6	28
14	Exploring a noisy van der Pol type oscillator with a stochastic approach. Physical Review E, 2013, 87, 062109.	2.1	28
15	From Phage lambda to human cancer: endogenous molecularâ€cellular network hypothesis. Quantitative Biology, 2013, 1, 32-49.	0.5	27
16	A framework towards understanding mesoscopic phenomena: Emergent unpredictability, symmetry breaking and dynamics across scales. Chemical Physics Letters, 2016, 665, 153-161.	2.6	27
17	Quantitative implementation of the endogenous molecularâ€“cellular network hypothesis in hepatocellular carcinoma. Interface Focus, 2014, 4, 20130064.	3.0	26
18	Summing over trajectories of stochastic dynamics with multiplicative noise. Journal of Chemical Physics, 2014, 141, 044125.	3.0	24

#	Article	IF	Citations
19	Lyapunov function as potential function: A dynamical equivalence. Chinese Physics B, 2014, 23, 010505.	1.4	23
20	Endogenous molecular-cellular hierarchical modeling of prostate carcinogenesis uncovers robust structure. Progress in Biophysics and Molecular Biology, 2015, 117, 30-42.	2.9	23
21	Decoding early myelopoiesis from dynamics of core endogenous network. Science China Life Sciences, 2017, 60, 627-646.	4.9	23
22	Biological Sources of Intrinsic and Extrinsic Noise in cI Expression of Lysogenic Phage Lambda. Scientific Reports, 2015, 5, 13597.	3.3	22
23	Towards Kinetic Modeling of Global Metabolic Networks: Methylobacterium extorquens AM1 Growth as Validation. Shengwu Gongcheng Xuebao/Chinese Journal of Biotechnology, 2008, 24, 980-994.	0.2	21
24	Deciphering the streamlined genome of Streptomyces xiamenensis 318 as the producer of the anti-fibrotic drug candidate xiamenmycin. Scientific Reports, 2016, 6, 18977.	3.3	21
25	Potential Function in a Continuous Dissipative Chaotic System: Decomposition Scheme and Role of Strange Attractor. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2014, 24, 1450015.	1.7	18
26	From molecular interaction to acute promyelocytic leukemia: Calculating leukemogenesis and remission from endogenous molecular-cellular network. Scientific Reports, 2016, 6, 24307.	3.3	18
27	SDE decomposition and A-type stochastic interpretation in nonequilibrium processes. Frontiers of Physics, 2017, 12, 1.	5.0	18
28	Dynamical Decomposition of Markov Processes without Detailed Balance. Chinese Physics Letters, 2013, 30, 070201.	3.3	17
29	Beyond cancer genes: colorectal cancer as robust intrinsic states formed by molecular interactions. Open Biology, 2017, 7, 170169.	3.6	17
30	Core level regulatory network of osteoblast as molecular mechanism for osteoporosis and treatment. Oncotarget, 2016, 7, 3692-3701.	1.8	16
31	Effective vortex mass from microscopic theory. Physical Review B, 2005, 71, .	3.2	13
32	Nonequilibrium work relation beyond the Boltzmann-Gibbs distribution. Physical Review E, 2014, 89, 062112.	2.1	12
33	Work relations connecting nonequilibrium steady states without detailed balance. Physical Review E, 2015, 91, 042108.	2.1	12
34	Resonant Confinement of an Excitonic Polariton and Ultraefficient Light Harvest in Artificial Photosynthesis. Physical Review Letters, 2019, 122, 257402.	7.8	12
35	Two-time-scale population evolution on a singular landscape. Physical Review E, 2014, 89, 012724.	2.1	11
36	Robust reconstruction of the Fokker-Planck equations from time series at different sampling rates. Europhysics Letters, 2013, 102, 40003.	2.0	9

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37	Endogenous network states predict gain or loss of functions for genetic mutations in hepatocellular carcinoma. Journal of the Royal Society Interface, 2016, 13, 20151115.	3.4	8
38	Anomalous free energy changes induced by topology. Physical Review E, 2015, 92, 062129.	2.1	7
39	Global potential, topology, and pattern selection in a noisy stabilized Kuramotoâ€“Sivashinsky equation. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 23227-23234.	7.1	7
40	Adaptive Landscape Shaped by Core Endogenous Network Coordinates Complex Early Progenitor Fate Commitments in Embryonic Pancreas. Scientific Reports, 2020, 10, 1112.	3.3	7
41	Efficiency, Robustness, and Stochasticity of Gene Regulatory Networks in Systems Biology: Î» Switch as a Working Example. , 2007, , 336-371.		7
42	Orders of Magnitude Change in Phenotype Rate Caused by Mutation. Analytical Cellular Pathology, 2007, 29, 67-69.	1.4	7
43	Towards stable kinetics of large metabolic networks: Nonequilibrium potential function approach. Physical Review E, 2016, 93, 062409.	2.1	6
44	Generic Enzymatic Rate Equation*. Progress in Biochemistry and Biophysics, 2011, 38, 759-767.	0.3	6
45	Absorbing phenomena and escaping time for Muller's ratchet in adaptive landscape. BMC Systems Biology, 2012, 6, S10.	3.0	5
46	Controlling symmetry-breaking states by a hidden quantity in multiplicative noise. Physical Review E, 2014, 90, 052121.	2.1	5
47	Kinetic model of metabolic network for xiamenmycin biosynthetic optimisation. IET Systems Biology, 2016, 10, 17-22.	1.5	5
48	Endogenous Molecular-Cellular Network Cancer Theory: A Systems Biology Approach. Methods in Molecular Biology, 2018, 1702, 215-245.	0.9	5
49	Two programmed replicative lifespans of Saccharomyces cerevisiae formed by the endogenous molecular-cellular network. Journal of Theoretical Biology, 2014, 362, 69-74.	1.7	4
50	Generating transverse response explicitly from harmonic oscillators. Physical Review B, 2017, 96, .	3.2	4
51	Dynamical modelling of secondary metabolism and metabolic switches in Streptomyces xiamenensis 318. Royal Society Open Science, 2019, 6, 190418.	2.4	4
52	Comment on â€œSign-Reversing Hall Effect in Atomically Thin High-Temperature Bi2.1Sr1.9CaCu2.0O8+Î´ Superconductorsâ€. Physical Review Letters, 2020, 124, 249701.	7.8	4
53	Fundamental Structure of General Stochastic Dynamical Systems: High-Dimension Case. Journal of Mathematics, 2022, 2022, 1-24.	1.0	4
54	Influence of an environment on equilibrium properties of a charged quantum bead constrained to a ring. Superlattices and Microstructures, 1992, 11, 265-268.	3.1	3

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55	Equivalent formulations of â€œthe equation of lifeâ€• Chinese Physics B, 2014, 23, 070513.	1.4	3
56	Darwinian Dynamics Implies Developmental Ascendency. Biological Theory, 2007, 2, 113-115.	1.5	2
57	Towards kinetic modeling of metabolic networks with incomplete parameters. , 2013, , .		2
58	Comment on â€œConstruction of the landscape for multi-stable systems: Potential landscape, quasi-potential, A-type integral and beyondâ€•[J. Chem. Phys. 144, 094109 (2016)]. Journal of Chemical Physics, 2016, 145, 147104.	3.0	2
59	Existence of a smooth Lyapunov function for any smooth planar dynamical system with one limit cycle. Nonlinear Dynamics, 2021, 105, 3117-3130.	5.2	2
60	Wrightâ€“Fisher dynamics on adaptive landscape. IET Systems Biology, 2013, 7, 153-164.	1.5	2
61	Borges dilemma, fundamental laws, and systems biology. Bioinformatics and Biology Insights, 2008, 2, 201-2.	2.0	2
62	Extrinsic vs. intrinsic noises in phage lambda genetic switch. , 2011, , .		1
63	Kinetics of muller's ratchet from adaptive landscape viewpoint. , 2011, , .		1
64	Escape from infinite adaptive peak. , 2012, , .		1
65	Escape rate for nonequilibrium processes dominated by strong non-detailed balance force. Journal of Chemical Physics, 2018, 148, 064102.	3.0	1
66	Towards predictive neural network dynamical theory. Physics of Life Reviews, 2021, 36, 30-32.	2.8	1
67	Dynamics of coexistence of asexual and sexual reproduction in adaptive landscape. , 2012, , .		0
68	Mapping noise disturbed oscillators onto quasi-symplectic dynamics. , 2013, , .		0
69	Statistical Analysis Can Fail to Reveal Underlying True Biological Mechanism: A Demonstration of Expression Profile Generation. , 2018, , .		0