B Yueheng Lan

List of Publications by Year
in descending order

55	775	567281 15	552781 26
papers	citations	h-index	g-index

56	56	56	692
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Optomechanical ratchet resonators. Science China: Physics, Mechanics and Astronomy, 2022, 65, 1.	5.1	9
2	Reconstruction of nonlinear flows from noisy time series. Nonlinear Dynamics, 2022, 108, 3887-3902.	5.2	5
3	Phase space partition with Koopman analysis. Chaos, 2022, 32, .	2.5	1
4	Controlling quantum coherence and entanglement in cavity magnomechanical systems. Physical Review A, 2022, 105, .	2.5	15
5	Symbolic partition in chaotic maps. Chaos, 2021, 31, 033144.	2.5	0
6	Thermophonon flux in double-cavity optomechanics. Physical Review A, 2021, 103, .	2.5	8
7	Unfolding spatiotemporal dynamics through symmetry reduction based on orbit topology. Chaos, 2021, 31, 053134.	2.5	0
8	Chaotic renormalization flow in the Potts model induced by long-range competition. Physical Review E, 2021, 103, 062117.	2.1	13
9	Probing the phase space of coupled oscillators with Koopman analysis. Physical Review E, 2021, 104, 034211.	2.1	1
10	A Wavelength Tunable Optical Neuron Based on a Fiber Laser. , 2021, , .		2
11	Long-Range Temporal Correlations in Kinetic Roughening. Journal of Statistical Physics, 2020, 178, 800-813.	1.2	3
12	Berry-phase-like effect of thermo-phonon transport in optomechanics. Physical Review A, 2020, 102, .	2.5	9
13	Modeling COVID-19 infection in a confined space. Nonlinear Dynamics, 2020, 101, 1643-1651.	5.2	9
14	Low-dimensional projection of stochastic cell-signalling dynamics via a variational approach. Physical Review E, 2020, 101, 012402.	2.1	0
15	Manipulating the steady-state entanglement via three-level atoms in a hybrid levitated optomechanical system. Physical Review A, 2020, 102, .	2.5	5
16	Koopman analysis in oscillator synchronization. Physical Review E, 2020, 102, 062216.	2.1	0
17	Quantum coherence transfer between an optical cavity and mechanical resonators. Science China: Physics, Mechanics and Astronomy, 2019, 62, 1.	5.1	17
18	Effect of the mechanical oscillator on the optical-response properties of an optical trimer system. Physical Review A, 2018, 98, .	2.5	12

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19	Accelerated variational approach for searching cycles. Physical Review E, 2018, 98, .	2.1	3
20	Macroscopic quantum coherence and mechanical squeezing of a graphene sheet. Physical Review A, 2017, 96, .	2.5	23
21	Coupling mechanical motion of a single atom to a micromechanical cantilever. Optics Express, 2017, 25, 32931.	3.4	10
22	Channel based generating function approach to the stochastic Hodgkin-Huxley neuronal system. Scientific Reports, 2016, 6, 22662.	3.3	4
23	Numerical analysis of long-range spatial correlations in surface growth. Physical Review E, 2016, 94, 062121.	2.1	2
24	Optical-response properties in levitated optomechanical systems beyond the low-excitation limit. Physical Review A, 2016, 93, .	2.5	20
25	Stochastic Thermodynamics of a Particle in a Box. Physical Review Letters, 2016, 117, 180603.	7.8	13
26	The ionized electron return phenomenon of Rydberg atom in crossed-fields. Modern Physics Letters B, 2016, 30, 1650183.	1.9	9
27	Enhancing steady-state entanglement via vacuum-induced emitterâ€“mirror coupling in a hybrid optomechanical system. Journal of Physics B: Atomic, Molecular and Optical Physics, 2016, 49, 025501.	1.5	9
28	Cooling mechanical motion via vacuum effect of an ensemble of quantum emitters. Optics Express, 2015, 23, 30970.	3.4	28
29	Hierarchical Feedback Modules and Reaction Hubs in Cell Signaling Networks. PLoS ONE, 2015, 10, e0125886.	2.5	8
30	ARK: Aggregation of Reads by K-Means for Estimation of Bacterial Community Composition. PLoS ONE, 2015, 10, e0140644.	2.5	4
31	SEK: sparsity exploiting k-mer-based estimation of bacterial community composition. Bioinformatics, 2014, 30, 2423-2431.	4.1	11
32	Generating large steady-state optomechanical entanglement by the action of Casimir force. Science China: Physics, Mechanics and Astronomy, 2014, 57, 2276-2284.	5.1	27
33	Nonuniversality of Critical Exponents in a Fractional Quenched Kardarâ€“Parisiâ€“Zhang Equation. Journal of Statistical Physics, 2014, 154, 1228-1240.	1.2	0
34	A variational approach to connecting orbits in nonlinear dynamical systems. Physics Letters, Section A: General, Atomic and Solid State Physics, 2014, 378, 705-712.	2.1	14
35	Computation of Growth Rates of Random Sequences with Multi-step Memory. Journal of Statistical Physics, 2013, 150, 722-743.	1.2	3
36	Casimir force between topological insulator slabs. Physical Review B, 2013, 88, .	3.2	35

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37	A resolution of the turbulence paradox: Numerical implementation. International Journal of Non-Linear Mechanics, 2013, 51, 1-9.	2.6	1
38	Linearization in the large of nonlinear systems and Koopman operator spectrum. Physica D: Nonlinear Phenomena, 2013, 242, 42-53.	2.8	127
39	Bridging steady states with renormalization group analysis. Physical Review E, 2013, 87, 012914.	2.1	2
40	Dynamics of a levitated nanosphere by optomechanical coupling and Casimir interaction. Physical Review A, 2013, 88, .	2.5	23
41	Theory of active transport in filopodia and stereocilia. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 10849-10854.	7.1	31
42	The N-leap method for stochastic simulation of coupled chemical reactions. Journal of Chemical Physics, 2012, 137, 204103.	3.0	4
43	Effect of the Casimir force on the entanglement between a levitated nanosphere and cavity modes. Physical Review A, 2012, 86, .	2.5	26
44	Thermally driven Casimir ratchet-oscillator system. Physical Review E, 2012, 86, 011110.	2.1	10
45	Accelerating Cycle Expansions by Dynamical Conjugacy. Journal of Statistical Physics, 2012, 146, 56-66.	1.2	2
46	Novel Computation of the Growth Rate of Generalized Random Fibonacci Sequences. Journal of Statistical Physics, 2011, 142, 847-861.	1.2	4
47	On the architecture of cell regulation networks. BMC Systems Biology, 2011, 5, 37.	3.0	5
48	On the Dynamics of Navier-Stokes and Euler Equations. Journal of Statistical Physics, 2008, 132, 35-76.	1.2	12
49	The Stochastic Dynamics of Filopodial Growth. Biophysical Journal, 2008, 94, 3839-3852.	0.5	92
50	Elimination of fast variables in chemical Langevin equations. Journal of Chemical Physics, 2008, 129, 214115.	3.0	12
51	Stochastic Resonant Signaling in Enzyme Cascades. Physical Review Letters, 2007, 98, 228301.	7.8	27
52	Evolution of complex probability distributions in enzyme cascades. Journal of Theoretical Biology, 2007, 248, 537-545.	1.7	6
53	A variational approach to the stochastic aspects of cellular signal transduction. Journal of Chemical Physics, 2006, 125, 124106.	3.0	28
54	The interplay between discrete noise and nonlinear chemical kinetics in a signal amplification cascade. Journal of Chemical Physics, 2006, 125, 154901.	3.0	23

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55	Stationary modulated-amplitude waves in the 1D complex Ginzburgâ€“Landau equation. Physica D: Nonlinear Phenomena, 2004, 188, 193-212.	2.8	7