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	Linearization in the large of nonlinear systems and Koopman operator spectrum. Physica D: Nonlinear Phenomena, 2013, 242, 42-53.	2.8	127
2	The Stochastic Dynamics of Filopodial Growth. Biophysical Journal, 2008, 94, 3839-3852.	0.5	92
3	Casimir force between topological insulator slabs. Physical Review B, 2013, 88, .	3.2	35
4	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
5	A variational approach to the stochastic aspects of cellular signal transduction. Journal of Chemical Physics, 2006, 125, 124106.	3.0	28
6	Cooling mechanical motion via vacuum effect of an ensemble of quantum emitters. Optics Express, 2015, 23, 30970.	3.4	28
7	Stochastic Resonant Signaling in Enzyme Cascades. Physical Review Letters, 2007, 98, 228301.	7.8	27
8	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
9	Effect of the Casimir force on the entanglement between a levitated nanosphere and cavity modes. Physical Review A, 2012, 86, .	2.5	26
10	The interplay between discrete noise and nonlinear chemical kinetics in a signal amplification cascade. Journal of Chemical Physics, 2006, 125, 154901.	3.0	23
11	Dynamics of a levitated nanosphere by optomechanical coupling and Casimir interaction. Physical Review A, 2013, 88, .	2.5	23
12	Macroscopic quantum coherence and mechanical squeezing of a graphene sheet. Physical Review A, 2017, 96, .	2.5	23
13	Optical-response properties in levitated optomechanical systems beyond the low-excitation limit. Physical Review A, 2016, 93, .	2.5	20
14	Quantum coherence transfer between an optical cavity and mechanical resonators. Science China: Physics, Mechanics and Astronomy, 2019, 62, 1.	5.1	17
15	Controlling quantum coherence and entanglement in cavity magnomechanical systems. Physical Review A, 2022, 105, .	2.5	15
16	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
17	Stochastic Thermodynamics of a Particle in a Box. Physical Review Letters, 2016, 117, 180603.	7.8	13
18	Chaotic renormalization flow in the Potts model induced by long-range competition. Physical Review E, 2021, 103, 062117.	2.1	13

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19	On the Dynamics of Navier-Stokes and Euler Equations. Journal of Statistical Physics, 2008, 132, 35-76.	1.2	12
20	Elimination of fast variables in chemical Langevin equations. Journal of Chemical Physics, 2008, 129, 214115.	3.0	12
21	Effect of the mechanical oscillator on the optical-response properties of an optical trimer system. Physical Review A, 2018, 98, .	2.5	12
22	SEK: sparsity exploiting k-mer-based estimation of bacterial community composition. Bioinformatics, 2014, 30, 2423-2431.	4.1	11
23	Thermally driven Casimir ratchet-oscillator system. Physical Review E, 2012, 86, 011110.	2.1	10
24	Coupling mechanical motion of a single atom to a micromechanical cantilever. Optics Express, 2017, 25, 32931.	3.4	10
25	The ionized electron return phenomenon of Rydberg atom in crossed-fields. Modern Physics Letters B, 2016, 30, 1650183.	1.9	9
26	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
27	Berry-phase-like effect of thermo-phonon transport in optomechanics. Physical Review A, 2020, 102, .	2.5	9
28	Modeling COVID-19 infection in a confined space. Nonlinear Dynamics, 2020, 101, 1643-1651.	5.2	9
29	Optomechanical ratchet resonators. Science China: Physics, Mechanics and Astronomy, 2022, 65, 1.	5.1	9
30	Hierarchical Feedback Modules and Reaction Hubs in Cell Signaling Networks. PLoS ONE, 2015, 10, e0125886.	2.5	8
31	Thermophonon flux in double-cavity optomechanics. Physical Review A, 2021, 103, .	2.5	8
32	Stationary modulated-amplitude waves in the 1D complex Ginzburgâ€“Landau equation. Physica D: Nonlinear Phenomena, 2004, 188, 193-212.	2.8	7
33	Evolution of complex probability distributions in enzyme cascades. Journal of Theoretical Biology, 2007, 248, 537-545.	1.7	6
34	On the architecture of cell regulation networks. BMC Systems Biology, 2011, 5, 37.	3.0	5
35	Manipulating the steady-state entanglement via three-level atoms in a hybrid levitated optomechanical system. Physical Review A, 2020, 102, .	2.5	5
36	Reconstruction of nonlinear flows from noisy time series. Nonlinear Dynamics, 2022, 108, 3887-3902.	5.2	5

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37	Novel Computation of the Growth Rate of Generalized Random Fibonacci Sequences. Journal of Statistical Physics, 2011, 142, 847-861.	1.2	4
38	The N-leap method for stochastic simulation of coupled chemical reactions. Journal of Chemical Physics, 2012, 137, 204103.	3.0	4
39	Channel based generating function approach to the stochastic Hodgkin-Huxley neuronal system. Scientific Reports, 2016, 6, 22662.	3.3	4
40	ARK: Aggregation of Reads by K-Means for Estimation of Bacterial Community Composition. PLoS ONE, 2015, 10, e0140644.	2.5	4
41	Computation of Growth Rates of Random Sequences with Multi-step Memory. Journal of Statistical Physics, 2013, 150, 722-743.	1.2	3
42	Accelerated variational approach for searching cycles. Physical Review E, 2018, 98, .	2.1	3
43	Long-Range Temporal Correlations in Kinetic Roughening. Journal of Statistical Physics, 2020, 178, 800-813.	1.2	3
44	Accelerating Cycle Expansions by Dynamical Conjugacy. Journal of Statistical Physics, 2012, 146, 56-66.	1.2	2
45	Bridging steady states with renormalization group analysis. Physical Review E, 2013, 87, 012914.	2.1	2
46	Numerical analysis of long-range spatial correlations in surface growth. Physical Review E, 2016, 94, 062121.	2.1	2
47	A Wavelength Tunable Optical Neuron Based on a Fiber Laser. , 2021, , .		2
48	A resolution of the turbulence paradox: Numerical implementation. International Journal of Non-Linear Mechanics, 2013, 51, 1-9.	2.6	1
49	Probing the phase space of coupled oscillators with Koopman analysis. Physical Review E, 2021, 104, 034211.	2.1	1
50	Phase space partition with Koopman analysis. Chaos, 2022, 32, .	2.5	1
51	Nonuniversality of Critical Exponents in a Fractional Quenched Kardarâ€“Parisiâ€“Zhang Equation. Journal of Statistical Physics, 2014, 154, 1228-1240.	1.2	0
52	Low-dimensional projection of stochastic cell-signalling dynamics via a variational approach. Physical Review E, 2020, 101, 012402.	2.1	0
53	Symbolic partition in chaotic maps. Chaos, 2021, 31, 033144.	2.5	0
54	Unfolding spatiotemporal dynamics through symmetry reduction based on orbit topology. Chaos, 2021, 31, 053134.	2.5	0

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55	Koopman analysis in oscillator synchronization. Physical Review E, 2020, 102, 062216.	2.1	0