

# Hong Zhao

## List of Publications by Year in descending order

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56  
papers

1,369  
citations

430874

18  
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345221

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g-index

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56  
docs citations

56  
times ranked

606  
citing authors

#	ARTICLE	IF	CITATIONS
1	The anti-Fermi-Pasta-Ulam-Tsingou problem in one-dimensional diatomic lattices. Journal of Statistical Mechanics: Theory and Experiment, 2022, 2022, 053104.	2.3	1
2	Phonon damping in one-dimensional lattices with asymmetric interactions. Science China: Physics, Mechanics and Astronomy, 2022, 65, .	5.1	1
3	Testing the Stokes-Einstein relation with the hard-sphere fluid model. Physical Review E, 2021, 103, L030103.	2.1	10
4	Inferring the dynamics of "black-box" systems using a learning machine. Science China: Physics, Mechanics and Astronomy, 2021, 64, 1.	5.1	9
5	Effect of pressure on thermalization of one-dimensional nonlinear chains. Physical Review E, 2021, 104, L032104.	2.1	4
6	Wave-Turbulence Origin of the Instability of Anderson Localization against Many-Body Interactions. Physical Review Letters, 2020, 124, 186401.	7.8	21
7	Universal law of thermalization for one-dimensional perturbed Toda lattices. New Journal of Physics, 2019, 21, 043009.	2.9	13
8	Universal scaling of the thermalization time in one-dimensional lattices. Physical Review E, 2019, 100, 010101.	2.1	12
9	Nonintegrability and thermalization of one-dimensional diatomic lattices. Physical Review E, 2019, 100, 052102.	2.1	8
10	Ultraslow diffusion and weak ergodicity breaking in right triangular billiards. Physical Review E, 2017, 95, 032209.	2.1	5
11	Scattering of lattice solitons and decay of heat-current correlation in the Fermi-Pasta-Ulam- $\hat{\lambda}^2$ model. Physical Review E, 2017, 96, 022116.	2.1	3
12	Violation of the virial theorem and generalized equipartition theorem for logarithmic oscillators serving as a thermostat. Scientific Reports, 2017, 7, 3460.	3.3	2
13	Anharmonicity induced thermal modulation in stressed graphene. Science China: Physics, Mechanics and Astronomy, 2017, 60, 1.	5.1	5
14	An Evaluation of the Dynamics of Diluted Neural Network. International Journal of Computational Intelligence Systems, 2016, 9, 1191-1199.	2.7	5
15	Key role of asymmetric interactions in low-dimensional heat transport. Journal of Statistical Mechanics: Theory and Experiment, 2016, 2016, 033205.	2.3	19
16	Non-Gaussian normal diffusion induced by delocalization. Physical Review E, 2016, 93, 032144.	2.1	15
17	Modulating thermal conduction by the axial strain. Journal of Statistical Mechanics: Theory and Experiment, 2016, 2016, 093208.	2.3	7
18	Effects of interaction symmetry on delocalization and energy transport in one-dimensional disordered lattices. Physical Review E, 2015, 92, 032138.	2.1	7

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19	Kinetic behavior of subsonic solitary wave in graphene nanoribbon. Journal of Statistical Mechanics: Theory and Experiment, 2015, 2015, P06007.	2.3	6
20	Impeded Mass Transportation Due to Defects in Thermally Driven Nanotube Nanomotor. Journal of Physical Chemistry C, 2015, 119, 17362-17368.	3.1	33
21	Supervised Machine Learning Model for High Dimensional Gene Data in Colon Cancer Detection. , 2015, , .		27
22	Thermal expansion and its impacts on thermal transport in the FPU- $\hat{I}^2$ model. AIP Advances, 2015, 5, 053203.	1.3	6
23	Temperature dependence of heat conduction in the Fermi-Pasta-Ulam- $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML">\langle \text{mml:mi}>\hat{I}^2</\text{mml:mi}>\langle \text{mml:math}>\text{lattice with next-nearest-neighbor coupling. Physical Review E, 2014, 90, 022117.}$	2.1	34
24	Finite-size effects on current correlation functions. Physical Review E, 2014, 89, 022111.	2.1	18
25	Feed-back neural networks with discrete weights. Neural Computing and Applications, 2013, 22, 1063-1069.	5.6	4
26	Connection between heat diffusion and heat conduction in one-dimensional systems. Science China: Physics, Mechanics and Astronomy, 2013, 56, 1466-1471.	5.1	14
27	Ice or water: thermal properties of monolayer water adsorbed on a substrate. Journal of Statistical Mechanics: Theory and Experiment, 2013, 2013, P06009.	2.3	28
28	Diffusion of heat, energy, momentum, and mass in one-dimensional systems. Physical Review E, 2013, 87, .	2.1	46
29	A trade-off formula in designing asymmetric neural networks. Journal of Physics A: Mathematical and Theoretical, 2013, 46, 435002.	2.1	0
30	Heat transport enhanced by optical phonons in one-dimensional anharmonic lattices with alternating bonds. Physical Review E, 2013, 88, 052128.	2.1	23
31	Normal thermal conduction in lattice models with asymmetric harmonic interparticle interactions. Chinese Physics B, 2013, 22, 070505.	1.4	8
32	Nonuniversal heat conduction of one-dimensional lattices. Physical Review E, 2012, 85, 020102.	2.1	42
33	Normal heat conduction in one-dimensional momentum conserving lattices with asymmetric interactions. Physical Review E, 2012, 85, 060102.	2.1	70
34	Thermal rectification in asymmetric U-shaped graphene flakes. Journal of Statistical Mechanics: Theory and Experiment, 2012, 2012, P06011.	2.3	18
35	Heat conduction in graphene flakes with inhomogeneous mass interface. Journal of Statistical Mechanics: Theory and Experiment, 2011, 2011, P10031.	2.3	14
36	Energy-transfer process in gas models of Lennard-Jones interactions. Physical Review E, 2011, 83, 052104.	2.1	5

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37	Solving Langevin equation with the bicolour rooted tree method. Physica A: Statistical Mechanics and Its Applications, 2010, 389, 3769-3778.	2.6	0
38	Spatial shift of lattice soliton scattering in the Fermi-Pasta-Ulam model. Physical Review E, 2010, 81, 037601.	2.1	10
39	Estimates of storage capacity in the q-state Potts-glass neural network. Journal of Physics A: Mathematical and Theoretical, 2010, 43, 445001.	2.1	3
40	q-state Potts-glass neural network based on pseudoinverse rule. Physical Review E, 2010, 82, 026114.	2.1	2
41	Heat conduction in two-dimensional disk models. Physical Review E, 2010, 82, 030101.	2.1	25
42	Correlation Between Eigenvalue Spectra and Dynamics of Neural Networks. Neural Computation, 2009, 21, 2931-2941.	2.2	8
43	Time series forecasting using multilayer neural network constructed by a Monte-Carlo based algorithm. , 2009, , .		1
44	STORING LIMIT CYCLES USING DELAYED FEEDBACK NEURAL NETWORKS. International Journal of Modeling, Simulation, and Scientific Computing, 2008, 11, 433-442.	1.4	1
45	Controlling the dynamics of multi-state neural networks. Journal of Statistical Mechanics: Theory and Experiment, 2008, 2008, P06002.	2.3	2
46	Pattern recognition with weighted complex networks. Physical Review E, 2008, 78, 056107.	2.1	4
47	Identifying Diffusion Processes in One-Dimensional Lattices in Thermal Equilibrium. Physical Review Letters, 2006, 96, 140602.	7.8	108
48	Pattern recognition using asymmetric attractor neural networks. Physical Review E, 2005, 72, 066111.	2.1	19
49	Dynamics of Solitary Wave Scattering in the Fermi-Pasta-Ulam Model. Physical Review Letters, 2005, 94, 025507.	7.8	33
50	Designing asymmetric neural networks with associative memory. Physical Review E, 2004, 70, 066137.	2.1	26
51	Comment on "Simple One-Dimensional Model of Heat Conduction which Obeys Fourier's Law". Physical Review Letters, 2002, 89, 079401; author reply 079402.	7.8	10
52	Heat conduction in a one-dimensional aperiodic system. Physical Review E, 2002, 66, 026106.	2.1	21
53	Can Disorder Induce a Finite Thermal Conductivity in 1D Lattices?. Physical Review Letters, 2001, 86, 63-66.	7.8	94
54	Heat conduction in one-dimensional nonintegrable systems. Physical Review E, 2000, 61, 3828-3831.	2.1	181

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55	Heat conduction in one-dimensional chains. Physical Review E, 1998, 57, 2992-2995.	2.1	278
56	Less is more: a new machine learning methodology for spatiotemporal systems. Communications in Theoretical Physics, 0, , .	2.5	0