

Hong Zhao

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1277045/publications.pdf>

Version: 2024-02-01

56
papers

1,369
citations

430874

18
h-index

345221

36
g-index

56
all docs

56
docs citations

56
times ranked

606
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Heat conduction in one-dimensional chains. <i>Physical Review E</i> , 1998, 57, 2992-2995. | 2.1 | 278 |
| 2 | Heat conduction in one-dimensional nonintegrable systems. <i>Physical Review E</i> , 2000, 61, 3828-3831. | 2.1 | 181 |
| 3 | Identifying Diffusion Processes in One-Dimensional Lattices in Thermal Equilibrium. <i>Physical Review Letters</i> , 2006, 96, 140602. | 7.8 | 108 |
| 4 | Can Disorder Induce a Finite Thermal Conductivity in 1D Lattices?. <i>Physical Review Letters</i> , 2001, 86, 63-66. | 7.8 | 94 |
| 5 | Normal heat conduction in one-dimensional momentum conserving lattices with asymmetric interactions. <i>Physical Review E</i> , 2012, 85, 060102. | 2.1 | 70 |
| 6 | Diffusion of heat, energy, momentum, and mass in one-dimensional systems. <i>Physical Review E</i> , 2013, 87, . | 2.1 | 46 |
| 7 | Nonuniversal heat conduction of one-dimensional lattices. <i>Physical Review E</i> , 2012, 85, 020102. | 2.1 | 42 |
| 8 | Temperature dependence of heat conduction in the Fermi-Pasta-Ulam- \hat{I}^2 lattice with next-nearest-neighbor coupling. <i>Physical Review E</i> , 2014, 90, 022117. | 2.1 | 34 |
| 9 | Dynamics of Solitary Wave Scattering in the Fermi-Pasta-Ulam Model. <i>Physical Review Letters</i> , 2005, 94, 025507. | 7.8 | 33 |
| 10 | Impeded Mass Transportation Due to Defects in Thermally Driven Nanotube Nanomotor. <i>Journal of Physical Chemistry C</i> , 2015, 119, 17362-17368. | 3.1 | 33 |
| 11 | Ice or water: thermal properties of monolayer water adsorbed on a substrate. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2013, 2013, P06009. | 2.3 | 28 |
| 12 | Supervised Machine Learning Model for High Dimensional Gene Data in Colon Cancer Detection. , 2015, , . | | 27 |
| 13 | Designing asymmetric neural networks with associative memory. <i>Physical Review E</i> , 2004, 70, 066137. | 2.1 | 26 |
| 14 | Heat conduction in two-dimensional disk models. <i>Physical Review E</i> , 2010, 82, 030101. | 2.1 | 25 |
| 15 | Heat transport enhanced by optical phonons in one-dimensional anharmonic lattices with alternating bonds. <i>Physical Review E</i> , 2013, 88, 052128. | 2.1 | 23 |
| 16 | Heat conduction in a one-dimensional aperiodic system. <i>Physical Review E</i> , 2002, 66, 026106. | 2.1 | 21 |
| 17 | Wave-Turbulence Origin of the Instability of Anderson Localization against Many-Body Interactions. <i>Physical Review Letters</i> , 2020, 124, 186401. | 7.8 | 21 |
| 18 | Pattern recognition using asymmetric attractor neural networks. <i>Physical Review E</i> , 2005, 72, 066111. | 2.1 | 19 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Key role of asymmetric interactions in low-dimensional heat transport. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2016, 2016, 033205. | 2.3 | 19 |
| 20 | Thermal rectification in asymmetric U-shaped graphene flakes. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2012, 2012, P06011. | 2.3 | 18 |
| 21 | Finite-size effects on current correlation functions. <i>Physical Review E</i> , 2014, 89, 022111. | 2.1 | 18 |
| 22 | Non-Gaussian normal diffusion induced by delocalization. <i>Physical Review E</i> , 2016, 93, 032144. | 2.1 | 15 |
| 23 | Heat conduction in graphene flakes with inhomogeneous mass interface. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2011, 2011, P10031. | 2.3 | 14 |
| 24 | Connection between heat diffusion and heat conduction in one-dimensional systems. <i>Science China: Physics, Mechanics and Astronomy</i> , 2013, 56, 1466-1471. | 5.1 | 14 |
| 25 | Universal law of thermalization for one-dimensional perturbed Toda lattices. <i>New Journal of Physics</i> , 2019, 21, 043009. | 2.9 | 13 |
| 26 | Universal scaling of the thermalization time in one-dimensional lattices. <i>Physical Review E</i> , 2019, 100, 010101. | 2.1 | 12 |
| 27 | Comment on "Simple One-Dimensional Model of Heat Conduction which Obeys Fourier's Law". <i>Physical Review Letters</i> , 2002, 89, 079401; author reply 079402. | 7.8 | 10 |
| 28 | Spatial shift of lattice soliton scattering in the Fermi-Pasta-Ulam model. <i>Physical Review E</i> , 2010, 81, 037601. | 2.1 | 10 |
| 29 | Testing the Stokes-Einstein relation with the hard-sphere fluid model. <i>Physical Review E</i> , 2021, 103, L030103. | 2.1 | 10 |
| 30 | Inferring the dynamics of "black-box" systems using a learning machine. <i>Science China: Physics, Mechanics and Astronomy</i> , 2021, 64, 1. | 5.1 | 9 |
| 31 | Correlation Between Eigenvalue Spectra and Dynamics of Neural Networks. <i>Neural Computation</i> , 2009, 21, 2931-2941. | 2.2 | 8 |
| 32 | Normal thermal conduction in lattice models with asymmetric harmonic interparticle interactions. <i>Chinese Physics B</i> , 2013, 22, 070505. | 1.4 | 8 |
| 33 | Nonintegrability and thermalization of one-dimensional diatomic lattices. <i>Physical Review E</i> , 2019, 100, 052102. | 2.1 | 8 |
| 34 | Effects of interaction symmetry on delocalization and energy transport in one-dimensional disordered lattices. <i>Physical Review E</i> , 2015, 92, 032138. | 2.1 | 7 |
| 35 | Modulating thermal conduction by the axial strain. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2016, 2016, 093208. | 2.3 | 7 |
| 36 | Kinetic behavior of subsonic solitary wave in graphene nanoribbon. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2015, 2015, P06007. | 2.3 | 6 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 37 | Thermal expansion and its impacts on thermal transport in the FPU- $\hat{\pm}\hat{\pm}^2$ model. AIP Advances, 2015, 5, 053203. | 1.3 | 6 |
| 38 | Energy-transfer process in gas models of Lennard-Jones interactions. Physical Review E, 2011, 83, 052104. | 2.1 | 5 |
| 39 | An Evaluation of the Dynamics of Diluted Neural Network. International Journal of Computational Intelligence Systems, 2016, 9, 1191-1199. | 2.7 | 5 |
| 40 | Ultraslow diffusion and weak ergodicity breaking in right triangular billiards. Physical Review E, 2017, 95, 032209. | 2.1 | 5 |
| 41 | Anharmonicity induced thermal modulation in stressed graphene. Science China: Physics, Mechanics and Astronomy, 2017, 60, 1. | 5.1 | 5 |
| 42 | Pattern recognition with weighted complex networks. Physical Review E, 2008, 78, 056107. | 2.1 | 4 |
| 43 | Feed-back neural networks with discrete weights. Neural Computing and Applications, 2013, 22, 1063-1069. | 5.6 | 4 |
| 44 | Effect of pressure on thermalization of one-dimensional nonlinear chains. Physical Review E, 2021, 104, L032104. | 2.1 | 4 |
| 45 | 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 |
| 46 | Scattering of lattice solitons and decay of heat-current correlation in the Fermi-Pasta-Ulam- $\hat{\pm}\hat{\pm}^2$ model. Physical Review E, 2017, 96, 022116. | 2.1 | 3 |
| 47 | Controlling the dynamics of multi-state neural networks. Journal of Statistical Mechanics: Theory and Experiment, 2008, 2008, P06002. | 2.3 | 2 |
| 48 | q-state Potts-glass neural network based on pseudoinverse rule. Physical Review E, 2010, 82, 026114. | 2.1 | 2 |
| 49 | Violation of the virial theorem and generalized equipartition theorem for logarithmic oscillators serving as a thermostat. Scientific Reports, 2017, 7, 3460. | 3.3 | 2 |
| 50 | STORING LIMIT CYCLES USING DELAYED FEEDBACK NEURAL NETWORKS. International Journal of Modeling, Simulation, and Scientific Computing, 2008, 11, 433-442. | 1.4 | 1 |
| 51 | Time series forecasting using multilayer neural network constructed by a Monte-Carlo based algorithm. , 2009, , . | | 1 |
| 52 | 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 |
| 53 | Phonon damping in one-dimensional lattices with asymmetric interactions. Science China: Physics, Mechanics and Astronomy, 2022, 65, . | 5.1 | 1 |
| 54 | Solving Langevin equation with the bicolour rooted tree method. Physica A: Statistical Mechanics and Its Applications, 2010, 389, 3769-3778. | 2.6 | 0 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 55 | A trade-off formula in designing asymmetric neural networks. Journal of Physics A: Mathematical and Theoretical, 2013, 46, 435002. | 2.1 | 0 |
| 56 | Less is more: a new machine learning methodology for spatiotemporal systems. Communications in Theoretical Physics, 0, , . | 2.5 | 0 |