# Chin-Kun Hu

List of Publications by Year
in descending order



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|---|---|---|---|
| 287 papers | 6,354 citations | 76031 42 h-index | 116156 66 g-index |
| 293 all docs | 293 docs citations | 293 times ranked | 4180 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | A switching mechanism of the default-mode network in the brain at criticality. Chinese Journal of Physics, 2021, 72, 636-644. | 2.0 | 0 |
| 2 | Scaling behaviors and self-organized criticality of two-dimensional small-world neural networks. Physica A: Statistical Mechanics and Its Applications, 2020, 540, 123191. | 1.2 | 11 |
| 3 | Scaling relations and finite-size scaling in gravitationally correlated lattice percolation models. Chinese Journal of Physics, 2020, 64, 25-34. | 2.0 | 5 |
| 4 | PBCAVE: Program for exact classification of the mesh points of a protein with possible internal cavities and its application to Poissonâ€“Boltzmann equation solution. Computer Physics Communications, 2020, 250, 107003. | 3.0 | 0 |
| 5 | Eigen microstates of particle gases for passenger flights in the United States. Chinese Journal of Physics, 2020, 68, 796-807. | 2.0 | 2 |
| 6 | A Method to Solve the Reaction-Diffusion-Chemotaxis System. International Journal of Nonlinear Sciences and Numerical Simulation, 2019, 20, 633-650. | 0.4 | 1 |
| 7 | Polymorphism in rapidly changing cyclic environment. Physical Review E, 2019, 100, 032401. | 0.8 | 7 |
| 8 | Effects of external stimulations on transition behaviors in neural network with time-delay. Physica A: Statistical Mechanics and Its Applications, 2019, 536, 122517. | 1.2 | 9 |
| 9 | Specific heat and partition function zeros for the dimer model on the checkerboard <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>B</mml:mi></mml:math> lattice: Finite-size effects. Physical Review E, 2019, 99, 012102. | 0.8 | 3 |
| 10 | Self-assembly of hen egg white lysozyme fibrils doped with magnetic particles. Journal of Magnetism and Magnetic Materials, 2019, 471, 400-405. | 1.0 | 6 |
| 11 | Firing patterns transition and desynchronization induced by time delay in neural networks. Physica A: Statistical Mechanics and Its Applications, 2018, 499, 88-97. | 1.2 | 27 |
| 12 | Accurate analytic solution of chemical master equations for gene regulation networks in a single cell. Physical Review E, 2018, 97, 012412. | 0.8 | 7 |
| 13 | A riddled basin escaping crisis and the universality in an integrate-and-fire circuit. Physica A: Statistical Mechanics and Its Applications, 2018, 500, 72-79. | 1.2 | 4 |
| 14 | Universality and scaling in human and social systems. Journal of Physics: Conference Series, 2018, 1113, 012002. | 0.3 | 1 |
| 15 | Circuit variability interacts with excitatory-inhibitory diversity of interneurons to regulate network encoding capacity. Scientific Reports, 2018, 8, 8027. | 1.6 | 8 |
| 16 | Compound CID 9998128 Is a Potential Multitarget Drug for Alzheimerâ€™s Disease. ACS Chemical Neuroscience, 2018, 9, 2588-2598. | 1.7 | 17 |
| 17 | Noise as a potential controller in antagonist inter-reacting systems. Physica A: Statistical Mechanics and Its Applications, 2018, 512, 500-506. | 1.2 | 3 |
| 18 | Can morphological changes of erythrocytes be driven by hemoglobin?. Physica A: Statistical Mechanics and Its Applications, 2018, 508, 608-612. | 1.2 | 2 |

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| 19 | Dependence of extreme events on spatial location. Physical Review E, 2018, 97, 062102. | 0.8 | 4 |
| 20 | Biological evolution model with conditional mutation rates. Physica A: Statistical Mechanics and Its Applications, 2017, 474, 32-38. | 1.2 | 7 |
| 21 | Impact of Mutations at C-Terminus on Structures and Dynamics of Aî²40 and Aî²42: A Molecular Simulation Study. Journal of Physical Chemistry B, 2017, 121, 4341-4354. | 1.2 | 15 |
| 22 | Exponential distance distribution of connected neurons in simulations of two-dimensional in vitro neural network development. Frontiers of Physics, 2017, 12, 1. | 2.4 | 19 |
| 23 | Crossing fitness canyons by a finite population. Physical Review E, 2017, 95, 062405. | 0.8 | 1 |
| 24 | Doubly stochastic (pseudo)gene expression in the regulation of cancer. Journal of Statistical Mechanics: Theory and Experiment, 2017, 2017, 083501. | 0.9 | 1 |
| 25 | Relationship between calorimetric profiles and differential melting curves for natural DNAs. International Journal of Biological Macromolecules, 2017, 102, 591-598. | 3.6 | 1 |
| 26 | Second derivative techniques in differential scanning calorimetry of DNA modified with platinum compounds. Thermochimica Acta, 2017, 654, 186-190. | 1.2 | 0 |
| 27 | Physical mechanism for biopolymers to aggregate and maintain in non-equilibrium states. Scientific Reports, 2017, 7, 3105. | 1.6 | 3 |
| 28 | On Diffusive Stability of Eigenâ€™s Quasispecies Model. Journal of Dynamical and Control Systems, 2016, 22, 1-14. | 0.4 | 5 |
| 29 | Exact Partition Functions of Interacting Self-Avoiding Walks on Lattices. EPJ Web of Conferences, 2016, 108, 01005. | 0.1 | 4 |
| 30 | Noise-induced multistability in the regulation of cancer by genes and pseudogenes. Journal of Chemical Physics, 2016, 145, 045102. | 1.2 | 14 |
| 31 | Finite-size corrections and scaling for the dimer model on the checkerboard lattice. Physical Review E, 2016, 94, 052141. | 0.8 | 7 |
| 32 | Accurate Analytic Results for the Steady State Distribution of the Eigen Model. Journal of the Physical Society of Japan, 2016, 85, 044803. | 0.7 | 4 |
| 33 | Efficient algorithm for computing exact partition functions of lattice polymer models. Computer Physics Communications, 2016, 209, 27-33. | 3.0 | 11 |
| 34 | Estimation of the diversity between <scp>DNA</scp> calorimetric profiles, differential melting curves and corresponding melting temperatures. Biopolymers, 2016, 105, 832-839. | 1.2 | 2 |
| 35 | On the adsorption of magnetite nanoparticles on lysozyme amyloid fibrils. Colloids and Surfaces B: Biointerfaces, 2016, 146, 794-800. | 2.5 | 22 |
| 36 | Discovery of DNA dyes Hoechst 34580 and 33342 as good candidates for inhibiting amyloid beta formation: in silico and in vitro study. Journal of Computer-Aided Molecular Design, 2016, 30, 639-650. | 1.3 | 11 |

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| 37 | Predicting missing links and identifying spurious links via likelihood analysis. Scientific Reports, 2016, 6, 22955. | 1.6 | 109 |
| 38 | The rich phase structure of a mutator model. Scientific Reports, 2016, 6, 34840. | 1.6 | 13 |
| 39 | Solution of classical evolutionary models in the limit when the diffusion approximation breaks down. Physical Review E, 2016, 94, 042422. | 0.8 | 8 |
| 40 | Exact solution of the dimer model on the generalized finite checkerboard lattice. Physical Review E, 2015, 91, 062139. | 0.8 | 2 |
| 41 | Thermal-induced force release in oxyhemoglobin. Scientific Reports, 2015, 5, 13064. | 1.6 | 6 |
| 42 | Fluctuation effects in gene regulation by microRNAs and correlations between gene and pseudogene mRNAs in the control of cancer. Journal of Statistical Mechanics: Theory and Experiment, 2015, 2015, P07019. | 0.9 | 9 |
| 43 | Analytical modelling for ultrasonic surface mechanical attrition treatment. AIP Advances, 2015, 5, . | 0.6 | 7 |
| 44 | Proteins aggregation and human diseases. Journal of Physics: Conference Series, 2015, 604, 012009. | 0.3 | 6 |
| 45 | Word population analysis and other evidences indicate that Shiji was amended by Liu Xiang. Physica A: Statistical Mechanics and Its Applications, 2015, 437, 408-417. | 1.2 | 6 |
| 46 | Evolutionary Games with Randomly Changing Payoff Matrices. Journal of the Physical Society of Japan, 2015, 84, 064802. | 0.7 | 11 |
| 47 | Dielectric Properties of Lyotropic Magnetic Liquid Crystal. Acta Physica Polonica A, 2015, 127, 632-634. | 0.2 | 0 |
| 48 | CAVE-CL: An OpenCL version of the package for detection and quantitative analysis of internal cavities in a system of overlapping balls: Application to proteins. Computer Physics Communications, 2015, 190, 224-227. | 3.0 | 3 |
| 49 | Determination of melting temperature and temperature melting range for DNA with multi-peak differential melting curves. Analytical Biochemistry, 2015, 479, 28-36. | 1.1 | 15 |
| 50 | Collapse and hybridization of RNA: View from replica technique approach. European Physical Journal E, 2015, 38, 100. | 0.7 | 2 |
| 51 | Mathematical Models of Quasi-Species Theory and Exact Results for the Dynamics. Current Topics in Microbiology and Immunology, 2015, 392, 121-139. | 0.7 | 6 |
| 52 | Exact solution of master equation with Gaussian and compound Poisson noises. Journal of Statistical Mechanics: Theory and Experiment, 2014, 2014, P11033. | 0.9 | 6 |
| 53 | Punctuated equilibrium and shock waves in molecular models of biological evolution. Physical Review E, 2014, 90, 022712. | 0.8 | 16 |
| 54 | Nonequilibrium Lyapunov function and a fluctuation relation for stochastic systems: Poisson-representation approach. Physical Review E, 2014, 89, 042132. | 0.8 | 10 |

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| 55 | Plasmon resonance based analysis of a single protein conjugated Au nanoshell. Biointerphases, 2014, 9, 031017. | 0.6 | 0 |
| 56 | Transformation between Î±â€helix and Î²â€sheet structures of one and two polyglutamine peptides in explicit water molecules by replicaâ€exchange molecular dynamics simulations. Journal of Computational Chemistry, 2014, 35, 1430-1437. | 1.5 | 34 |
| 57 | A spherical harmonic transform spectral analysis of a localized surface plasmon on a gold nano shell. Journal of Computational Chemistry, 2014, 35, 2225-2230. | 1.5 | 0 |
| 58 | Kinetics of the long ssRNA: Steady state. Europhysics Letters, 2014, 106, 48007. | 0.7 | 1 |
| 59 | Comparative thermal and thermodynamic study of DNA chemically modified with antitumor drug cisplatin and its inactive analog transplatin. Journal of Inorganic Biochemistry, 2014, 137, 85-93. | 1.5 | 8 |
| 60 | Oscillations in probability distributions for stochastic gene expression. Journal of Chemical Physics, 2014, 140, 205104. | 1.2 | 8 |
| 61 | Effect of Taiwan Mutation (D7H) on Structures of Amyloid-Î² Peptides: Replica Exchange Molecular Dynamics Study. Journal of Physical Chemistry B, 2014, 118, 8972-8981. | 1.2 | 36 |
| 62 | A manipulator game model of urban public traffic network. Physica A: Statistical Mechanics and Its Applications, 2014, 416, 378-385. | 1.2 | 11 |
| 63 | A structure-based model fails to probe the mechanical unfolding pathways of the titin I27 domain. Journal of Chemical Physics, 2013, 139, 065103. | 1.2 | 13 |
| 64 | Heat capacity decomposition by partition function zeros for interacting self-avoiding walks. Europhysics Letters, 2013, 104, 20005. | 0.7 | 22 |
| 65 | Crossover behavior of stock returns and mean square displacements of particles governed by the Langevin equation. Europhysics Letters, 2013, 102, 66003. | 0.7 | 12 |
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| 67 | Amplitude ratios for critical systems in thec=â^'2universality class. Physical Review E, 2013, 87, 012110. | 0.8 | 4 |
| 68 | Evolutionary advantage via common action of recombination and neutrality. Physical Review E, 2013, 88, 052717. | 0.8 | 4 |
| 69 | Oligomerization of Peptides LVEALYL and RGFFYT and Their Binding Affinity to Insulin. PLoS ONE, 2013, 8, e65358. | 1.1 | 21 |
| 70 | Stabilization and Anomalous Hydration of Collagen Fibril under Heating. PLoS ONE, 2013, 8, e78526. | 1.1 | 25 |
| 71 | Discovery of Dihydrochalcone as Potential Lead for Alzheimerâ€™s Disease: In Silico and In Vitro Study. PLoS ONE, 2013, 8, e79151. | 1.1 | 33 |
| 72 | Slow dynamics in proteins and polymer chains. , 2013, , . | | 14 |

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| 73 | Biological evolution in a multidimensional fitness landscape. Physical Review E, 2012, 86, 031920. | 0.8 | 11 |
| 74 | Eigen Model with Correlated Multiple Mutations and Solution of Error Catastrophe Paradox in the Origin of Life. Journal of the Physical Society of Japan, 2012, 81, 114801. | 0.7 | 8 |
| 75 | Finite population size effects in quasispecies models with single-peak fitness landscape. Europhysics Letters, 2012, 98, 18001. | 0.7 | 14 |
| 76 | ARVO-CL: The OpenCL version of the ARVO package â€" An efficient tool for computing the accessible surface area and the excluded volume of proteins via analytical equations. Computer Physics Communications, 2012, 183, 2494-2497. | 3.0 | 4 |
| 77 | Long charged macromolecule in an entropic trap with rough surfaces. Physical Review E, 2012, 86, 051904. | 0.8 | 1 |
| 78 | Temporal behavior of DNA thermal stability in the presence of platinum compounds. Role of monofunctional and bifunctional adducts. Journal of Inorganic Biochemistry, 2012, 117, 164-170. | 1.5 | 4 |
| 79 | Stepwise transition to higher degrees of coherence in a random network of phase oscillators. Europhysics Letters, 2012, 99, 10008. | 0.7 | 1 |
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| 81 | Thermal stability of DNA with interstrand crosslinks. Biopolymers, 2012, 97, 807-817. | 1.2 | 9 |
| 82 | On the position of a vortex in a two-dimensional model of atmosphere. Nonlinear Analysis: Real World Applications, 2012, 13, 1941-1954. | 0.9 | 10 |
| 83 | Finite-size corrections for logarithmic representations in critical dense polymers. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 711, 71-75. | 1.5 | 8 |
| 84 | Lethal Mutants and Truncated Selection Together Solve a Paradox of the Origin of Life. PLoS ONE, 2011, 6, e21904. | 1.1 | 25 |
| 85 | Finite Genome Length Corrections for the Mean Fitness and Gene Probabilities in Evolution Models. Journal of Statistical Physics, 2011, 144, 198-212. | 0.5 | 11 |
| 86 | Constructive role of noise in p53 regulatory network. Computer Physics Communications, 2011, 182, 249-250. | 3.0 | 63 |
| 87 | Protein-mediated loops and phase transition in nonthermal denaturation of DNA. Journal of Statistical Mechanics: Theory and Experiment, 2011, 2011, P01005. | 0.9 | 4 |
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| 89 | Universal geometrical factor of protein conformations as a consequence of energy minimization. Europhysics Letters, 2011, 96, 68005. | 0.7 | 6 |
| 90 | Exact probability distribution function for multifractal random walk models of stocks. Europhysics Letters, 2011, 95, 28007. | 0.7 | 13 |

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| 91 | Structural Perturbations to Population Skeletons: Transient Dynamics, Coexistence of Attractors and the Rarity of Chaos. PLoS ONE, 2011, 6, e24200. | 1.1 | 9 |
| 92 | Generation of induced Smith-Purcell radiation in the absence of resonator. Journal of Physics: Conference Series, 2010, 236, 012022. | 0.3 | 2 |
| 93 | Generalized Statistical Mechanics and Scaling Behavior for Non-equilibrium Polymer Chains: I. Monomers Connected by Rigid Bonds. Journal of the Physical Society of Japan, 2010, 79, 024005. | 0.7 | 16 |
| 94 | The threshold conditions for an FELWI. Physica Scripta, 2010, T140, 014058. | 1.2 | 2 |
| 95 | Generalized Statistical Mechanics and Scaling Behavior for Non-equilibrium Polymer Chains: II. Monomers Connected by Springs. Journal of the Physical Society of Japan, 2010, 79, 024006. | 0.7 | 16 |
| 96 | CAVE: A package for detection and quantitative analysis of internal cavities in a system of overlapping balls: Application to proteins. Computer Physics Communications, 2010, 181, 2116-2125. | 3.0 | 11 |
| 97 | Typhoon eye trajectory based on a mathematical model: Comparing with observational data. Nonlinear Analysis: Real World Applications, 2010, 11, 1847-1861. | 0.9 | 21 |
| 98 | The role of tryptophan in staphylococcal nuclease stability. Biophysical Chemistry, 2010, 151, 170-177. | 1.5 | 9 |
| 99 | Sampleâ€toâ€sample fluctuations in heterogeneous DNA. Journal of Polymer Science, Part B: Polymer Physics, 2010, 48, 2432-2436. | 2.4 | 0 |
| 100 | Studying submicrosecond protein folding kinetics using a photolabile caging strategy and timeâ€resolved photoacoustic calorimetry. Proteins: Structure, Function and Bioinformatics, 2010, 78, 2973-2983. | 1.5 | 8 |
| 101 | Mechanism of morphological transition in heteroepitaxial growth of metal films. Applied Physics Letters, 2010, 96, 093101. | 1.5 | 4 |
| 102 | Factors Governing Fibrillogenesis of Polypeptide Chains Revealed by Lattice Models. Physical Review Letters, 2010, 105, 218101. | 2.9 | 104 |
| 103 | Different fitnesses for in vivo and in vitro evolutions due to the finite generation-time effect. Physical Review E, 2010, 81, 061913. | 0.8 | 8 |
| 104 | Molecular Dynamics Approach to Relaxation and Aggregation of Polymer Chains. Progress of Theoretical Physics Supplement, 2010, 184, 369-384. | 0.2 | 6 |
| 105 | Induced Smithâ€“Purcell radiation. Journal of Modern Optics, 2010, 57, 2060-2068. | 0.6 | 4 |
| 106 | The dispersion equation of the induced Smithâ€“Purcell instability. Physica Scripta, 2010, T140, 014049. | 1.2 | 6 |
| 107 | Influence of strongly stabilized sites on DNA melting: A comparison of theory with experiment. Europhysics Letters, 2010, 91, 38003. | 0.7 | 8 |
| 108 | Molecular Dynamics Approach to Aggregation of Polymer Chains with Monomers Connected by Rigid Bonds. Journal of the Physical Society of Japan, 2010, 79, 054001. | 0.7 | 11 |

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| 109 | Molecular Dynamics Approach to Aggregation of Polymer Chains with Monomers Connected by Springs. Journal of the Physical Society of Japan, 2010, 79, 104002. | 0.7 | 9 |
| 110 | Effect of time delay on the onset of synchronization of the stochastic Kuramoto model. Journal of Statistical Mechanics: Theory and Experiment, 2010, 2010, P08018. | 0.9 | 16 |
| 111 | Colored noise, folding rates and departure from Kramersâ€™ behavior. Physical Chemistry Chemical Physics, 2010, 12, 11753. | 1.3 | 21 |
| 112 | Evolution models with lethal mutations on symmetric or random fitness landscapes. Physical Review E, 2010, 82, 011904. | 0.8 | 15 |
| 113 | Selection via flatness as a dynamical effect in evolution models with finite population. Physical Review E, 2010, 82, 011902. | 0.8 | 1 |
| 114 | How adsorption influences DNA denaturation. Physical Review E, 2009, 79, 031903. | 0.8 | 12 |
| 115 | Phase statistics approach to human ventricular fibrillation. Physical Review E, 2009, 80, 051917. | 0.8 | 8 |
| 116 | Phase diagram for the Eigen quasispecies theory with a truncated fitness landscape. Physical Review E, 2009, 79, 041905. | 0.8 | 22 |
| 117 | Replicators in a Fine-Grained Environment: Adaptation and Polymorphism. Physical Review Letters, 2009, 102, 058102. | 2.9 | 10 |
| 118 | Multiple Nucleic Acid Binding Sites and Intrinsic Disorder of Severe Acute Respiratory Syndrome Coronavirus Nucleocapsid Protein: Implications for Ribonucleocapsid Protein Packaging. Journal of Virology, 2009, 83, 2255-2264. | 1.5 | 170 |
| 119 | Protein mechanical unfolding: Importance of non-native interactions. Journal of Chemical Physics, 2009, 131, 215103. | 1.2 | 19 |
| 120 | Enveloping triangulation method for detecting internal cavities in proteins and algorithm for computing their surface areas and volumes. Journal of Computational Chemistry, 2009, 30, 346-357. | 1.5 | 12 |
| 121 | Boundary conditions and amplitude ratios for finite-size corrections of a one-dimensional quantum spin model. Nuclear Physics B, 2009, 808, 613-624. | 0.9 | 18 |
| 122 | Thermostability of the N-Terminal RNA-Binding Domain of the SARS-CoV Nucleocapsid Protein: Experiments and Numerical Simulations. Biophysical Journal, 2009, 96, 1892-1901. | 0.2 | 6 |
| 123 | Application of Empirical Mode Decomposition to Cardiorespiratory Synchronization. Understanding Complex Systems, 2009, , 167-181. | 0.3 | 0 |
| 124 | Compact dimension of denatured states of staphylococcal nuclease. Proteins: Structure, Function and Bioinformatics, 2008, 72, 901-909. | 1.5 | 4 |
| 125 | Hydrophobic condensation and modular assembly model of protein folding. BioSystems, 2008, 93, 78-89. | 0.9 | 8 |
| 126 | Quasi-cycles and sensitive dependence on seed values in edge of chaos behaviour in a class of self-evolving maps. Chaos, Solitons and Fractals, 2008, 38, 641-649. | 2.5 | 3 |

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| 127 | Chaotic Communication via Temporal Transfer Entropy. Physical Review Letters, 2008, 101, 244102. | 2.9 | 36 |
| 128 | Detection of casimir photons with electrons. Laser Physics, 2008, 18, 621-624. | 0.6 | 12 |
| 129 | MULTISCROLL IN COUPLED DOUBLE SCROLL TYPE OSCILLATORS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2008, 18, 2965-2980. | 0.7 | 16 |
| 130 | New force replica exchange method and protein folding pathways probed by force-clamp technique. Journal of Chemical Physics, 2008, 128, 045103. | 1.2 | 30 |
| 131 | Diploid biological evolution models with general smooth fitness landscapes and recombination. Physical Review E, 2008, 77, 061907. | 0.8 | 17 |
| 132 | Paths to globally generalized synchronization in scale-free networks. Physical Review E, 2008, 77, 016202. | 0.8 | 62 |
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| 134 | Random sequences with power-law correlations exhibit proteinlike behavior. Journal of Chemical Physics, 2007, 126, 145103. | 1.2 | 2 |
| 135 | Temporal evolution for the phase histogram of ECG during human ventricular fibrillation. AIP Conference Proceedings, 2007, , . | 0.3 | 4 |
| 136 | Detecting essential nodes in complex networks from measured noisy time series. AIP Conference Proceedings, 2007, , . | 0.3 | 0 |
| 137 | Quantum and Lattice Models of Biological Evolution. AIP Conference Proceedings, 2007, , . | 0.3 | 0 |
| 138 | Wrapping conformations of a polymer on a curved surface. Physical Review E, 2007, 75, 031903. | 0.8 | 18 |
| 139 | Self-organizing behavior in a lattice model for co-evolution of virus and immune systems. Physical Review E, 2007, 75, 041104. | 0.8 | 8 |
| 140 | Escape through an unstable limit cycle driven by multiplicative colored non-Gaussian and additive white Gaussian noises. Physical Review E, 2007, 75, 042101. | 0.8 | 40 |
| 141 | Finite-size effects for the Ising model on helical tori. Physical Review E, 2007, 76, 041118. | 0.8 | 27 |
| 142 | RNA folding in the presence of counterions. Physical Review E, 2007, 75, 061907. | 0.8 | 15 |
| 143 | Influence of noise on the synchronization of the stochastic Kuramoto model. Physical Review E, 2007, 76, 056210. | 0.8 | 75 |
| 144 | Refolding upon Force Quench and Pathways of Mechanical and Thermal Unfolding of Ubiquitin. Biophysical Journal, 2007, 92, 547-561. | 0.2 | 45 |

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| 145 | Efficient combination of Wangâ€“Landau and transition matrix Monte Carlo methods for protein simulations. Journal of Computational Chemistry, 2007, 28, 715-726. | 1.5 | 28 |
| 146 | Laser cooling of electrons and X-ray generation in a relativistic quantum heat engine. Laser Physics, 2007, 17, 1073-1076. | 0.6 | 1 |
| 147 | Analytical studies on a modified Nagelâ€“Schreckenberg model with the Fukuiâ€“Ishibashi acceleration rule. Chaos, Solitons and Fractals, 2007, 31, 772-776. | 2.5 | 11 |
| 148 | Effect of Finite Size on Cooperativity and Rates of Protein Foldingâ€. Journal of Physical Chemistry A, 2006, 110, 671-676. | 1.1 | 63 |
| 149 | Curvature effect on the surface diffusion of silver adatoms on carbon nanotubes: Deposition experiments and numerical simulations. Physical Review B, 2006, 74, . | 1.1 | 20 |
| 150 | An enhanced version of SMMPâ€”open-source software package for simulation of proteins. Computer Physics Communications, 2006, 174, 422-429. | 3.0 | 49 |
| 151 | Exact solution of the Eigen model with general fitness functions and degradation rates. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 4935-4939. | 3.3 | 108 |
| 152 | Scaling and universality in transition to synchronous chaos with local-global interactions. Physical Review E, 2006, 73, 036212. | 0.8 | 25 |
| 153 | Adhesion-Induced DNA Naturation. Physical Review Letters, 2006, 96, 098302. | 2.9 | 11 |
| 154 | Empirical mode decomposition and synchrogram approach to cardiorespiratory synchronization. Physical Review E, 2006, 73, 051917. | 0.8 | 63 |
| 155 | Synchronized state of coupled dynamics on time-varying networks. Chaos, 2006, 16, 015117. | 1.0 | 61 |
| 156 | Quasispecies theory for multiple-peak fitness landscapes. Physical Review E, 2006, 73, 041913. | 0.8 | 59 |
| 157 | Finite-size corrections and scaling for the triangular lattice dimer model with periodic boundary conditions. Physical Review E, 2006, 73, 016128. | 0.8 | 30 |
| 158 | Escape through an unstable limit cycle: Resonant activation. Physical Review E, 2006, 73, 061107. | 0.8 | 26 |
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| 160 | Helixâ€“coil transition in closed circular DNA. Physica A: Statistical Mechanics and Its Applications, 2005, 348, 327-338. | 1.2 | 7 |
| 161 | ARVO: A Fortran package for computing the solvent accessible surface area and the excluded volume of overlapping spheres via analytic equations. Computer Physics Communications, 2005, 165, 59-96. | 3.0 | 37 |
| 162 | Global optimization of minority game by intelligent agents. European Physical Journal B, 2005, 47, 587-593. | 0.6 | 15 |

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| 163 | A new analytical method for computing solvent-accessible surface area of macromolecules and its gradients. Journal of Computational Chemistry, 2005, 26, 334-343. | 1.5 | 45 |
| 164 | Free energy landscape and folding mechanism of a Î²-hairpin in explicit water: A replica exchange molecular dynamics study. Proteins: Structure, Function and Bioinformatics, 2005, 61, 795-808. | 1.5 | 125 |
| 165 | Exact multileg correlation functions for the dense phase of branching polymers in two dimensions. Physical Review E, 2005, 71, 015104. | 0.8 | 11 |
| 166 | Synchronized clusters in coupled map networks. II. Stability analysis. Physical Review E, 2005, 72, 016212. | 0.8 | 45 |
| 167 | Publisher's Note: Synchronized clusters in coupled map networks. I. Numerical studies [Phys. Rev. E72, 016211 (2005)]. Physical Review E, 2005, 72, . | 0.8 | 2 |
| 168 | Synchronized clusters in coupled map networks. I. Numerical studies. Physical Review E, 2005, 72, 016211. | 0.8 | 58 |
| 169 | Logarithmic Conformal Field Theory and Boundary Effects in the Dimer Model. Physical Review Letters, 2005, 95, 260602. | 2.9 | 63 |
| 170 | Watanabe and Hu Reply:. Physical Review Letters, 2005, 95, . | 2.9 | 8 |
| 171 | Folding of the Protein Domain hbSBD. Biophysical Journal, 2005, 89, 3353-3361. | 0.2 | 27 |
| 172 | Solvable biological evolution models with general fitness functions and multiple mutations in parallel mutation-selection scheme. Physical Review E, 2004, 70, 041908. | 0.8 | 34 |
| 173 | Superscaling of Percolation on Rectangular Domains. Physical Review Letters, 2004, 93, 190601. | 2.9 | 19 |
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| 175 | Eigen model as a quantum spin chain: Exact dynamics. Physical Review E, 2004, 69, 021913. | 0.8 | 62 |
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| 178 | The Asymmetric Avalanche Process. Journal of Statistical Physics, 2003, 111, 1149-1182. | 0.5 | 36 |
| 179 | Finite size behavior of the asymmetric avalanche process. Physica A: Statistical Mechanics and Its Applications, 2003, 321, 280-285. | 1.2 | 10 |
| 180 | Parallel tempering simulations of HP-36. Proteins: Structure, Function and Bioinformatics, 2003, 52, 436-445. | 1.5 | 90 |

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