

*The Table of Contents is a total listing of Parts A and B.
Part A consists of pages L042101–044218, and Part B pages 044301–049901(E).*

PART A

LETTERS

Statistical Physics

Inverse transitions and disappearance of the λ -line in the asymmetric random-field Ising and Blume-Capel models (6 pages)	L042101
Santanu Das and Sumedha	
Reservoir-induced stabilization of a periodically driven many-body system (5 pages)	L042102
Thomas Veness and Kay Brandner	
Entropy production limits all fluctuation oscillations (6 pages)	L042103
Naoto Shiraishi	

Nonlinear Dynamics and Chaos

Contrarian role of phase and phase velocity coupling in synchrony of second-order phase oscillators (6 pages) . . .	L042201
Arindam Mishra, Suman Saha, Subrata Ghosh, Syamal Kumar Dana, and Chittaranjan Hens	

Polymers

Appearance of de Gennes length in force-induced transitions (6 pages)	L042501
Keerti Chauhan, Garima Mishra, Vimal Kishore, and Sanjay Kumar	
Critical behavior of magnetic polymers on the three-dimensional Sierpiński Gasket (6 pages)	L042502
Sumitra Rudra, Damien Paul Foster, and Sanjay Kumar	

Colloids, Complex Fluids, and Active Matter

Synergistic chemomechanical dynamics of feedback-controlled microreactors (6 pages)	L042601
Sebastian Milster, Abeer Darwish, Nils Göth, and Joachim Dzubiella	
Constitutive model for the rheology of biological tissue (6 pages)	L042602
Suzanne M. Fielding, James O. Cochran, Junxiang Huang, Dapeng Bi, and M. Cristina Marchetti	

Granular Materials

Dipole screening in pure shear strain protocols of amorphous solids (5 pages)	L042901
Chandana Mondal, Michael Moshe, Itamar Procaccia, and Saikat Roy	



(Continued)



2470-0045(202310)108:4:A;1-1

CONTENTS - *Continued*

PHYSICAL REVIEW E

THIRD SERIES, VOLUME 108, NUMBER 4

OCTOBER 2023

Fractal dimensions of jammed packings with power-law particle size distributions in two and three dimensions (<i>6 pages</i>)	L042902
Joseph M. Monti, Ishan Srivastava, Leonardo E. Silbert, Jeremy B. Lechman, and Gary S. Grest	

Solid Mechanics

Elastocapillary menisci mediate interaction of neighboring structures at the surface of a compliant solid (<i>7 pages</i>)	L043001
Lebo Molefe and John M. Kolinski	
Dynamics of crack front waves in three-dimensional material failure (<i>6 pages</i>)	L043002
Sanhita Das, Yuri Lubomirsky, and Eran Bouchbinder	

Plasma Physics

Runaway electron current reconstitution after a nonaxisymmetric magnetohydrodynamic flush (<i>6 pages</i>)	L043201
Christopher J. McDevitt and Xian-Zhu Tang	

ARTICLES

Statistical Physics

General theory of the viscosity of liquids and solids from nonaffine particle motions (<i>9 pages</i>)	044101
Alessio Zaccone	
Late-time universal distribution functions of observables in one-dimensional many-body quantum systems (<i>11 pages</i>)	044102
I. Vallejo-Fabila and E. Jonathan Torres-Herrera	
Thermodynamic variational relation (<i>4 pages</i>)	044103
Domingos S. P. Salazar	
Sequential epidemic-like spread between agglomerates of self-propelled agents in one dimension (<i>10 pages</i>)	044104
Pablo de Castro, Felipe Urbina, Ariel Norambuena, and Francisca Guzmán-Lastra	
Splitting probabilities and mean first-passage times across multiple thresholds of jump-and-drift transition paths (<i>9 pages</i>)	044105
Giulio Calvani and Paolo Perona	
Exact Markovian evolution of quantum systems with several degrees of freedom: Phase space representations (<i>15 pages</i>)	044106
Aldo R. Fernandes Neto, Alfredo M. Ozorio de Almeida, and Olivier Brodier	
Domain convexification: A simple model for invasion processes (<i>18 pages</i>)	044108
David Martin-Calle and Olivier Pierre-Louis	
Fitness fluctuations in the Bak-Sneppen model (<i>8 pages</i>)	044109
Abha Singh, Rahul Chhimpia, and Avinash Chand Yadav	
Cusp singularities in the distribution of orientations of asymmetrically pivoted hard disks on a lattice (<i>8 pages</i>)	044110
Sushant Saryal and Deepak Dhar	

(Continued)

CONTENTS - *Continued*

PHYSICAL REVIEW E

THIRD SERIES, VOLUME 108, NUMBER 4

OCTOBER 2023

Nonequilibrium indicator for the onset of epileptic seizure (<i>9 pages</i>)	044111
Feng Zhang and Jin Wang	
Thermodynamic definition of mean temperature (<i>9 pages</i>)	044112
A. E. Allahverdyan, S. G. Gevorkian, Yu. A. Dyakov, and Pao-Kuan Wang	
☞ Topologically constrained fluctuations and thermodynamics regulate nonequilibrium response (<i>21 pages</i>)	044113
Gabriela Fernandes Martins and Jordan M. Horowitz	
Monitored nonadiabatic and coherent-controlled quantum unital Otto heat engines: First four cumulants (<i>27 pages</i>)	044114
Abdelkader El Makouri, Abdallah Slaoui, and Rachid Ahl Laamara	
Extremal statistics for a resetting Brownian motion before its first-passage time (<i>9 pages</i>)	044115
Wusong Guo, Hao Yan, and Hanshuang Chen	
Statistics of long-range force fields in random environments: Beyond Holtzmark (<i>8 pages</i>)	044116
Avraham Samama and Eli Barkai	
Thermodynamic trade-off relation for first passage time in resetting processes (<i>13 pages</i>)	044117
P. S. Pal, Arnab Pal, Hyunggyu Park, and Jae Sung Lee	
Coarse-graining the vertex model and its response to shear (<i>13 pages</i>)	044118
Gloria Triguero-Platero, Falko Ziebert, and Luis L. Bonilla	
Finite-size effects in addition and chipping processes (<i>18 pages</i>)	044119
R. R. Dyachenko, S. A. Matveev, and P. L. Krapivsky	
Steady-state moments under resetting to a distribution (<i>8 pages</i>)	044120
Kristian Stølevik Olsen	
Metastability due to a branching-merging structure in a simple network of an exclusion process (<i>15 pages</i>)	044121
Hiroki Yamamoto, Daichi Yanagisawa, and Katsuhiro Nishinari	
First-passage behavior of the random-barrier model (<i>6 pages</i>)	044122
V. P. Shkilev	
Application of Cairns-Tsallis distribution to the dipole-type Hamiltonian mean-field model (<i>7 pages</i>)	044123
Ewin Sánchez and Boris Atenas	
Detecting low-energy quasilocalized excitations in computer glasses (<i>12 pages</i>)	044124
David Richard, Geert Kapteijns, and Edan Lerner	
☞ Coulomb-Higgs phase transition of three-dimensional lattice Abelian Higgs gauge models with noncompact gauge variables and gauge fixing (<i>13 pages</i>)	044125
Claudio Bonati, Andrea Pelissetto, and Ettore Vicari	
Approaching the perfect diode limit through a nonlinear interface (<i>7 pages</i>)	044126
Lucianno Defaveri, Alexandre A. A. Almeida, and Celia Anteneodo	
Lattice models for ballistic aggregation: Cluster-shape-dependent exponents (<i>13 pages</i>)	044127
Fahad Puthalath, Apurba Biswas, V. V. Prasad, and R. Rajesh	

(Continued)

Complexity of spin configuration dynamics due to unitary evolution and periodic projective measurements (<i>8 pages</i>)	044128
Heitor P. Casagrande, Bo Xing, Marcello Dalmonte, Alex Rodriguez, Vinitha Balachandran, and Dario Poletti	
Brownian yet non-Gaussian diffusion of a light particle in heavy gas: Lorentz-gas-based analysis (<i>7 pages</i>)	044129
Fumiaki Nakai and Takashi Uneyama	
Confined modes of single-particle trajectories induced by stochastic resetting (<i>9 pages</i>)	044130
Aleksander A. Stanislavsky and Aleksander Weron	
☞ Phase ordering dynamics of the random-field long-range Ising model in one dimension (<i>11 pages</i>)	044131
Ramgopal Agrawal, Federico Corberi, Eugenio Lippiello, and Sanjay Puri	
Magnetization plateaus and enhanced magnetocaloric effect of a spin-1/2 Ising-Heisenberg and Heisenberg double sawtooth ladder with four-spin interaction (<i>12 pages</i>)	044132
Hamid Arian Zad, Vadim Ohanyan, Azam Zoshki, and Jozef Strečka	
Critical behavior in rectangles with mixed boundaries (<i>34 pages</i>)	044133
E. Eisenriegler	
Performance-guaranteed regularization in maximum likelihood method: Gauge symmetry in Kullback-Leibler divergence (<i>8 pages</i>)	044134
Akihisa Ichiki	
Thermodynamic stability at phase coexistence (<i>10 pages</i>)	044135
Jozismar Rodrigues Alves and Vera Bohomoletz Henriques	
Large deviations of the stochastic area for linear diffusions (<i>12 pages</i>)	044136
Johan du Buisson, Thamu D. P. Mnyulwa, and Hugo Touchette	
Two-step estimators of high-dimensional correlation matrices (<i>13 pages</i>)	044137
Andrés García-Medina, Salvatore Micciché, and Rosario N. Mantegna	
☞ How to train your demon to do fast information erasure without heat production (<i>7 pages</i>)	044138
Stephen Whitelam	
Upper bound for entropy production in Markov processes (<i>6 pages</i>)	044139
Tomohiro Nishiyama and Yoshihiko Hasegawa	
Mutual information of spin systems from autoregressive neural networks (<i>11 pages</i>)	044140
Piotr Białas, Piotr Korcyl, and Tomasz Stebel	
Evolution of discrete symmetries (<i>11 pages</i>)	044141
Peter Schmelcher	
Supercluster states and phase transitions in aggregation-fragmentation processes (<i>18 pages</i>)	044142
Wendy Otieno, Nikolai V. Brilliantov, and P. L. Krapivsky	
Electrical conductivity of crack-template-based transparent conductive films: A computational point of view (<i>12 pages</i>)	044143
Yuri Yu. Tarasevich, Andrei V. Eserkepov, and Irina V. Vodolazskaya	

(Continued)

Zero-temperature phase transitions and their anomalous influence on thermodynamic behavior in the q -state Potts model on a diamond chain (<i>16 pages</i>)	044144
Yury Panov and Onofre Rojas	
Geometric clusters in the overlap of the Ising model (<i>13 pages</i>)	044145
Michail Akritidis, Nikolaos G. Fytas, and Martin Weigel	
Finite-size scaling of the random-field Ising model above the upper critical dimension (<i>9 pages</i>)	044146
Nikolaos G. Fytas, Víctor Martín-Mayor, Giorgio Parisi, Marco Picco, and Nicolas Sourlas	
Reservoir-induced stabilization of a periodically driven classical spin chain: Local versus global relaxation (<i>17 pages</i>)	044147
Thomas Veness and Kay Brandner	
Green's functions for random resistor networks (<i>15 pages</i>)	044148
Sayak Bhattacharjee and Kabir Ramola	
Multiparameter universality and intrinsic diversity of critical phenomena in weakly anisotropic systems (<i>33 pages</i>)	044149
Volker Dohm	
Lattice models of random advection and diffusion and their statistics (<i>19 pages</i>)	044150
Stefano Lepri, Paolo Politi, and Arkady Pikovsky	
First-passage functionals of Brownian motion in logarithmic potentials and heterogeneous diffusion (<i>18 pages</i>)	044151
Mattia Radice	
Nonlinear Dynamics and Chaos	
Thermodynamic efficiency of atmospheric motion governed by the Lorenz system (<i>7 pages</i>)	044201
Zhen Li and Yuki Izumida	
Controlling quantum chaos: Time-dependent kicked rotor (<i>12 pages</i>)	044202
Steven Tomsovic, Juan Diego Urbina, and Klaus Richter	
Mechanization of a scalar field theory in $1 + 1$ dimensions: Bogomol'nyi-Prasad-Sommerfeld mechanical kinks and their scattering (<i>17 pages</i>)	044203
Filip Blaschke, Ondřej Nicolas Karpíšek, and Lukáš Rafaj	
Emergence of collective self-oscillations in minimal lattice models with feedback (<i>12 pages</i>)	044204
Dmitry Sinelshchikov, Anna Poggialini, Maria Francesca Abbate, and Daniele De Martino	
Composite spiral waves in discrete-time systems (<i>10 pages</i>)	044205
Xin Wang, Jian Gao, Changgui Gu, Daiyong Wu, Xinshuang Liu, and Chuansheng Shen	
Intensity statistics inside an open wave-chaotic cavity with broken time-reversal invariance (<i>15 pages</i>)	044206
Yan V. Fyodorov and Elizaveta Safonova	
First-order transition to oscillation death in coupled oscillators with higher-order interactions (<i>8 pages</i>)	044207
Richita Ghosh, Umesh Kumar Verma, Sarika Jalan, and Manish Dev Shrimali	
Interaction-induced directed transport in quantum chaotic subsystems (<i>9 pages</i>)	044208
Sanku Paul, J. Bharathi Kannan, and M. S. Santhanam	

(Continued)

CONTENTS - *Continued*

PHYSICAL REVIEW E

THIRD SERIES, VOLUME 108, NUMBER 4

OCTOBER 2023

Lorenz-like systems and Lorenz-like attractors: Definition, examples, and equivalences (<i>17 pages</i>)	044209
Christophe Letellier, Eduardo M. A. M. Mendes, and Jean-Marc Malasoma	
Ring-shaped quantum droplets with hidden vorticity in a radially periodic potential (<i>11 pages</i>)	044210
Bin Liu, Xiaoyan Cai, Xizhou Qin, Xunda Jiang, Jianing Xie, Boris A. Malomed, and Yongyao Li	
Experimental test of the Rosenzweig-Porter model for the transition from Poisson to Gaussian unitary ensemble statistics (<i>13 pages</i>)	044211
Xiaodong Zhang, Weihua Zhang, Jiongning Che, and Barbara Dietz	
Noise-induced Parrondo's paradox in discrete-time quantum walks (<i>13 pages</i>)	044212
Zbigniew Walczak and Jarosław H. Bauer	
Characterizing quantum chaoticity of kicked spin chains (<i>9 pages</i>)	044213
Tabea Herrmann, Maximilian F. I. Kieler, and Arnd Bäcker	
Spectral energy scattering and targeted energy transfer in phononic lattices with local vibroimpact nonlinearities (<i>14 pages</i>)	044214
Joshua R. Tempelman, Alexander F. Vakakis, and Kathryn H. Matlack	
Geometric phase for nonlinear oscillators from perturbative renormalization group (<i>10 pages</i>)	044215
D. A. Khromov, M. S. Kryvoruchko, and D. A. Pesin	
Inclusion of radiation in the collective coordinate method approach of the ϕ^4 model (<i>19 pages</i>)	044216
S. Navarro-Obregón, L. M. Nieto, and J. M. Queiruga	
Application of recurrence quantification analysis of acoustic emission time series to analysis of a plastic flow of metals (<i>9 pages</i>)	044217
Einar A. Agletdinov and Igor S. Yasnikov	
Nonequilibrium thermodynamic signatures of collective dynamical states around chimera in a chemical reaction network (<i>13 pages</i>)	044218
Premashis Kumar and Gautam Gangopadhyay	

PART B

Networks and Complex Systems

Noisy voter models in switching environments (<i>18 pages</i>)	044301
Annalisa Caligiuri and Tobias Galla	
Optimizing the geometry of transportation networks in the presence of congestion (<i>14 pages</i>)	044302
Matthias Dahlmanns, Franz Kaiser, and Dirk Witthaut	
Systemic risk measured by the resiliency of the system to initial shocks (<i>12 pages</i>)	044303
Luka Klinčić, Vinko Zlatić, Guido Caldarelli, and Hrvoje Štefančić	
Extended-range percolation in complex networks (<i>15 pages</i>)	044304
Lorenzo Cirigliano, Claudio Castellano, and Gábor Timár	
From localized to well mixed: How commuter interactions shape disease spread (<i>23 pages</i>)	044305
Aaron Winn, Adam Konkol, and Eleni Katifori	

(Continued)

CONTENTS - *Continued*

PHYSICAL REVIEW E

THIRD SERIES, VOLUME 108, NUMBER 4

OCTOBER 2023

Phononic band gap in random spring networks (<i>10 pages</i>)	044306
Kezhao Xiong, Jie Ren, Fabio Marchesoni, and Jiping Huang	
Phase transitions in an adaptive network with the global order parameter adaptation (<i>11 pages</i>)	044307
M. Manoranjani, V. R. Saiprasad, R. Gopal, D. V. Senthilkumar, and V. K. Chandrasekar	
Bayes-optimal inference for spreading processes on random networks (<i>19 pages</i>)	044308
Davide Ghio, Antoine L. M. Aragon, Indaco Biazio, and Lenka Zdeborová	
Visibility graphs of critical and off-critical time series for absorbing state phase transitions (<i>9 pages</i>)	044309
Juliane T. Moraes and Silvio C. Ferreira	
Distribution of shortest path lengths on trees of a given size in subcritical Erdős-Rényi networks (<i>12 pages</i>)	044310
Barak Budnick, Ofer Biham, and Eytan Katzav	
Biological Physics	
Assisted percolation of slow-spreading mutants in heterogeneous environments (<i>6 pages</i>)	044401
Thomas Tunstall, Tim Rogers, and Wolfram Möbius	
Task-relevant brain dynamics among cognitive subsystems induced by regional stimulation in a whole-brain computational model (<i>12 pages</i>)	044402
Zilu Liu, Fang Han, and Qingyun Wang	
Charge transport through DNA with energy-dependent decoherence (<i>19 pages</i>)	044403
Hashem Mohammad and M. P. Anantram	
Channel capacity of the ribosome (<i>7 pages</i>)	044404
Daniel A. Inafuku, Kay L. Kirkpatrick, Onyema Osuagwu, Qier An, David A. Brewster, and Mayisha Zeb Nakib	
Motor-free contractility of active biopolymer networks (<i>14 pages</i>)	044405
Sihan Chen, Tomer Markovich, and Fred C. MacKintosh	
Extinction time distributions of populations and genotypes (<i>12 pages</i>)	044406
David A. Kessler and Nadav M. Shnerb	
How Turing parasites expand the computational landscape of digital life (<i>15 pages</i>)	044407
Luís F. Seoane and Ricard Solé	
Chemotaxis of an elastic flagellated microrobot (<i>22 pages</i>)	044408
Chaojie Mo, Qingfei Fu, and Xin Bian	
Geometry of ecological coexistence and niche differentiation (<i>12 pages</i>)	044409
Emmy Blumenthal and Pankaj Mehta	
Collective catalysis under spatial constraints: Phase separation and size-scaling effects on mass action kinetics (<i>15 pages</i>)	044410
Nino Lauber, Ondrej Tichacek, Krishnadev Narayanankutty, Daniele De Martino, and Kepa Ruiz-Mirazo	
Polymers	
Ejection dynamics of a semiflexible polymer from a nanosphere (<i>9 pages</i>)	044501
Farzaneh Moazemi, Samaneh Ghanbari-Kashan, Fatemeh Moharaminezhad, and Narges Nikoofard	

(Continued)

Stiffening mechanisms in stochastic athermal fiber networks (<i>9 pages</i>)	044502
N. Parvez, J. Merson, and R. C. Picu	

Colloids, Complex Fluids, and Active Matter

Active Brownian particles in external force fields: Field-theoretical models, generalized barometric law, and programmable density patterns (<i>13 pages</i>)	044601
Jens Bickmann, Stephan Bröker, Michael te Vrugt, and Raphael Wittkowski	

Machine learning predicts the glass transition of two-dimensional colloids besides medium-range crystalline order (<i>7 pages</i>)	044602
Eun Cheol Kim, Dong Jae Chun, Chung Bin Park, and Bong June Sung	

Entropy production and collective excitations of crystals out of equilibrium: The concept of entropions (<i>12 pages</i>)	044603
L. Caprini, U. Marini Bettolo Marconi, and H. Löwen	

Non-Gaussian fluctuations of a probe coupled to a Gaussian field (<i>13 pages</i>)	044604
Vincent Démery and Andrea Gambassi	

Noise-induced escape of a self-propelled particle from metastable orbits (<i>9 pages</i>)	044605
Rubens H. Damascena and Clécio C. de Souza Silva	

Films and Interfaces

Universal interface fluctuations in the contact process (<i>12 pages</i>)	044801
B. G. Barreales, J. J. Meléndez, R. Cuerno, and J. J. Ruiz-Lorenzo	

Granular Materials

Compacting an assembly of soft balls far beyond the jammed state: Insights from three-dimensional imaging (<i>10 pages</i>)	044901
Jonathan Barés, Manuel Cárdenas-Barrantes, Gustavo Pinzón, Edward Andò, Mathieu Renouf, Gioacchino Viggiani, and Emilien Azéma	

Elongated particles discharged with a conveyor belt in a two-dimensional silo (<i>9 pages</i>)	044902
Bo Fan, Iker Zuriguel, Joshua A. Dijksman, Jasper van der Gucht, and Tamás Börzsönyi	

Solid Mechanics

Enhancing the detection capabilities of nano-avalanches via data-driven classification of acoustic emission signals (<i>11 pages</i>)	045001
Emil Bronstein, Jonathan Zimmerman, Eugen Rabkin, Eilon Faran, Ronen Talmon, and Doron Shilo	

Geometric control of tilt transition dynamics in single-clamped thermalized elastic sheets (<i>12 pages</i>)	045002
Roberto Abril Valenzuela, Paul Z. Hanakata, and Mark J. Bowick	

Hardening of fcc hard-sphere crystals by introducing nanochannels: Auxetic aspects (<i>9 pages</i>)	045003
Jakub W. Narojczyk, Konstantin V. Tretiakov, Jerzy Smardzewski, and Krzysztof W. Wojciechowski	

Effective elastic moduli of composites with a strongly disordered host material (<i>10 pages</i>)	045004
D. A. Conyuh, A. A. Semenov, and Y. M. Beltukov	

(Continued)

Fluid Dynamics

Locally optimal geometry for surface-enhanced diffusion (<i>13 pages</i>)	045101
Anneline H. Christensen, Ankur Gupta, Guang Chen, Winfried S. Peters, Michael Knoblauch, Howard A. Stone, and Kaare H. Jensen	
Acoustophoresis around an elastic scatterer in a standing wave field (<i>15 pages</i>)	045102
Khemraj Gautam Kshetri and Nitesh Nama	
Statistical properties of superfluid turbulence in ^4He from the Hall-Vinen-Bekharevich-Khalatnikov model (<i>12 pages</i>)	045103
Akhilesh Kumar Verma, Sanjay Shukla, Vishwanath Shukla, Abhik Basu, and Rahul Pandit	
Stability of a liquid film on inclined flexible substrates: Effect of the spontaneous odd viscosity (<i>10 pages</i>)	045104
Beinan Jia and Yongjun Jian	
Acoustic tokamak with strongly coupled toroidal bubbles (<i>11 pages</i>)	045105
A. Caumont, O. Stephan, E. Bossy, B. Dollet, C. Quilliet, and P. Marmottant	
Experimental evidence of random shock-wave intermittency (<i>8 pages</i>)	045106
Guillaume Ricard and Eric Falcon	
Oscillating Taylor bubble during the emptying of a partially filled water bottle (<i>11 pages</i>)	045107
Olivier Praud, Cyril Vettorello, and Véronique Roig	
Thermorelaxing multicomponent flows investigated with a Baer-Nunziato-type model (<i>18 pages</i>)	045108
Chao Zhang and Lifeng Wang	

Plasma Physics

Contribution of fictitious forces to polarization drag in rotating media (<i>10 pages</i>)	045201
Julien Langlois and Renaud Gueroult	
Driven dust-charge fluctuation and chaotic ion dynamics in the plasma sheath and presheath regions (<i>15 pages</i>)	045202
Mridusmita Das, Suniti Changmai, and Madhurjya P. Bora	
Hydrodynamic cumulation mechanism caused by quantum shell effects (<i>19 pages</i>)	045203
S. E. Kuratov, I. S. Menshov, S. Yu. Igashov, E. M. Urvachev, S. I. Blinnikov, D. S. Shidlovski, and S. I. Glazyrin	
Spectral-partitioned Kohn-Sham density functional theory (<i>23 pages</i>)	045204
Babak Sadigh, Daniel Åberg, and John Pask	
Thermal conductivity of a laser plasma (<i>5 pages</i>)	045205
Nathaniel R. Shaffer, Andrei V. Maximov, and Valeri N. Goncharov	
Improved ion heating in fast ignition by pulse shaping (<i>9 pages</i>)	045206
Henry Fetsch and Nathaniel J. Fisch	
Numerical investigation of atmospheric pressure plasma jet under nonuniform electric field (<i>7 pages</i>)	045207
Yutian Yu, Li Wu, Qiang Chen, Naoki Shinohara, and Kama Huang	

(Continued)

Six-photon resonant scattering of collinear laser pulses in plasma (<i>9 pages</i>)	045208
V. M. Malkin and N. J. Fisch	
Ultracold plasma expansion in quadrupole magnetic field (<i>5 pages</i>)	045209
S. Ya. Bronin, E. V. Vikhrov, B. B. Zelener, and B. V. Zelener	
Computational Physics	
First-order differential equations for single-particle quantum mechanical systems (<i>7 pages</i>)	045301
Daniel Gebremedhin and Charles Weatherford	
Calculation of phonons in real-space density functional theory (<i>14 pages</i>)	045302
Abhiraj Sharma and Phanish Suryanarayana	
Prediction of phase transition and time-varying dynamics of the $(2 + 1)$ -dimensional Boussinesq equation by parameter-integrated physics-informed neural networks with phase domain decomposition (<i>21 pages</i>)	045303
Haiyi Liu, Lei Wang, Yabin Zhang, Gui Lu, and Lei Liu	
Flow force calculation in the lattice Boltzmann method (<i>11 pages</i>)	045304
Shaurya Kaushal, Sauro Succi, and Santosh Ansumali	
One-step simplified lattice Boltzmann method of thermal flows under the Boussinesq approximation (<i>16 pages</i>)	045305
Shenglei Qin (秦声雷), Guoxiang Hou (侯国祥), Liuming Yang (杨留名), Xu Liu (刘旭), and Haoze Luo (罗皓泽)	
Computational design of anisotropic stealthy hyperuniform composites with engineered directional scattering properties (<i>22 pages</i>)	045306
Wenlong Shi, David Keeney, Duyu Chen, Yang Jiao, and Salvatore Torquato	
Fine-grained domain counting and percolation analysis in two-dimensional lattice systems with linked lists (<i>14 pages</i>)	045307
Hrushikesh Sable, Deepak Gaur, and D. Angom	
Model averaging approaches to data subset selection (<i>9 pages</i>)	045308
Ethan T. Neil and Jacob W. Sitison	
Computing the diffusivity of a particle subject to dry friction with colored noise (<i>12 pages</i>)	045309
Josselin Garnier and Laurent Mertz	

ERRATA

Erratum: Ratchet universality in the bidirectional escape from a symmetric potential well [Phys. Rev. E 103 , 022203 (2021)] (<i>1 page</i>)	049901(E)
R. Chacón, P. J. Martínez, J. M. Marcos, F. J. Aranda, and J. A. Martínez	