

ARTICLES

Interdisciplinary physics

Microcanonical analyses of homopolymer aggregation processes (<i>5 pages</i>)	056101
Tao Chen, Xiangsong Lin, Yuan Liu, Teng Lu, and Haojun Liang	
Dynamics of condensation in growing complex networks (<i>5 pages</i>)	056102
Luca Ferretti and Ginestra Bianconi	
Kinetic equations modelling wealth redistribution: A comparison of approaches (<i>12 pages</i>)	056103
Bertram Düring, Daniel Matthes, and Giuseppe Toscani	
Escape problem under stochastic volatility: The Heston model (<i>14 pages</i>)	056104
Jaume Masoliver and Josep Perelló	
Elastic nonlinearities in a one-dimensional model of fracture (<i>9 pages</i>)	056105
Eran Bouchbinder and Ting-Shek Lo	
Organization of modular networks (<i>9 pages</i>)	056106
S. N. Dorogovtsev, J. F. F. Mendes, A. N. Samukhin, and A. Y. Zyuzin	
Pattern recognition with weighted complex networks (<i>6 pages</i>)	056107
Jigger Cheh and Hong Zhao	
Quantifying local structure effects in network dynamics (<i>10 pages</i>)	056108
Andre S. Ribeiro, Jason Lloyd-Price, Juha Kesseli, Antti Häkkinen, and Olli Yli-Harja	
Aging in the shear-transformation-zone theory of plastic deformation (<i>11 pages</i>)	056109
Jörg Rottler and Philipp Maass	
Multifractality of random walks in the theory of vehicular traffic (<i>10 pages</i>)	056110
G. M. Buendía, G. M. Viswanathan, and V. M. Kenkre	

Chaos and pattern formation

Synchronization of stochastic oscillations due to long-range diffusion (<i>7 pages</i>)	056201
A. Efimov, A. Shabunin, and A. Provata	
Trace formula for dielectric cavities: General properties (<i>14 pages</i>)	056202
E. Bogomolny, R. Dubertrand, and C. Schmit	
When Lyapunov exponents fail to exist (<i>6 pages</i>)	056203
William Ott and James A. Yorke	
Dynamical trapping and chaotic scattering of the harmonically driven barrier (<i>13 pages</i>)	056204
Florian R. N. Koch, Florian Lenz, Christoph Petri, Fotios K. Diakonos, and Peter Schmelcher	
Scaling investigation of Fermi acceleration on a dissipative bouncer model (<i>12 pages</i>)	056205
André Luis Prando Livorati, Denis Gouvêa Ladeira, and Edson D. Leonel	
Finite-size particles, advection, and chaos: A collective phenomenon of intermittent bursting (<i>6 pages</i>)	056206
Rene O. Medrano-T., Alessandro Moura, Tamás Tél, Iberê L. Caldas, and Celso Grebogi	
Scattering off an oscillating target: Basic mechanisms and their impact on cross sections (<i>13 pages</i>)	056207
I. Brouzos, A. K. Karlis, C. A. Chrysanthakopoulos, F. K. Diakonos, V. Constantoudis, P. Schmelcher, and L. Benet	

(Continued)