

Jean Pierre Boon

List of Publications by Year in descending order

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34
papers

1,030
citations

623734

14
h-index

414414

32
g-index

36
all docs

36
docs citations

36
times ranked

600
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | On the Calculation of Autocorrelation Functions of Dynamical Variables. Journal of Chemical Physics, 1966, 45, 1086-1096. | 3.0 | 299 |
| 2 | Lattice gas automata for reactive systems. Physics Reports, 1996, 273, 55-147. | 25.6 | 140 |
| 3 | Brillouin Scattering in Simple Liquids: Argon and Neon. Physical Review, 1969, 186, 244-254. | 2.7 | 74 |
| 4 | Special issue overview Nonextensive statistical mechanics: new trends, new perspectives. Europhysics News, 2005, 36, 185-186. | 0.3 | 66 |
| 5 | Boundaries in lattice gas flows. Physica D: Nonlinear Phenomena, 1991, 47, 233-240. | 2.8 | 58 |
| 6 | Hydrodynamic modes and light scattering near the convective instability. Physical Review A, 1974, 10, 1355-1360. | 2.5 | 50 |
| 7 | Light-Scattering Spectrum Due to Wiggling Motions of Bacteria. Biophysical Journal, 1974, 14, 847-864. | 0.5 | 40 |
| 8 | Nonlinear reactions advected by a flow. Physica A: Statistical Mechanics and Its Applications, 1996, 224, 207-215. | 2.6 | 29 |
| 9 | Propagation and Organization in Lattice Random Media. Journal of Statistical Physics, 1999, 97, 575-608. | 1.2 | 26 |
| 10 | Structural and dynamical characterization of Hele-Shaw viscous fingering. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2004, 362, 1723-1734. | 3.4 | 24 |
| 11 | Generalized diffusion: A microscopic approach. Physical Review E, 2008, 77, 051103. | 2.1 | 22 |
| 12 | Microscopic approach to nonlinear reaction-diffusion: The case of morphogen gradient formation. Physical Review E, 2012, 85, 021126. | 2.1 | 22 |
| 13 | How Fast Does Langton's Ant Move?. Journal of Statistical Physics, 2001, 102, 355-360. | 1.2 | 17 |
| 14 | Transport Functions and Light Scattering in Simple Dense Fluids. Physical Review A, 1970, 2, 2542-2550. | 2.5 | 15 |
| 15 | Chaotic dynamics in a periodically excited air jet. Physical Review Letters, 1985, 55, 492-495. | 7.8 | 14 |
| 16 | Statistical mechanics and hydrodynamics of lattice gas automata: An overview. Physica D: Nonlinear Phenomena, 1991, 47, 3-8. | 2.8 | 14 |
| 17 | Long-range correlations in nonequilibrium systems: Lattice gas automaton approach. Physical Review E, 1996, 54, 1208-1224. | 2.1 | 14 |
| 18 | VISCOUS FINGERING IN MISCIBLE, IMMISCIBLE AND REACTIVE FLUIDS. International Journal of Modern Physics B, 2003, 17, 15-20. | 2.0 | 14 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Nonextensive statistics in viscous fingering. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2006, 362, 168-173. | 2.6 | 12 |
| 20 | Nonextensive formalism and continuous Hamiltonian systems. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2011, 375, 329-334. | 2.1 | 12 |
| 21 | Generalized diffusion equation. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2006, 368, 55-62. | 2.6 | 8 |
| 22 | A lattice gas automaton approach to "turbulent diffusion". <i>Chaos, Solitons and Fractals</i> , 2000, 11, 187-192. | 5.1 | 7 |
| 23 | Diffusion and correlations in lattice-gas automata. <i>Physical Review E</i> , 1997, 56, 6331-6339. | 2.1 | 6 |
| 24 | Calculation of the Dipole Autocorrelation Function for a System of Weakly Coupled Electric Dipoles. <i>Journal of Chemical Physics</i> , 1969, 51, 3681-3688. | 3.0 | 5 |
| 25 | COMPLEXITY, TIME AND MUSIC. <i>International Journal of Modeling, Simulation, and Scientific Computing</i> , 2010, 13, 155-164. | 1.4 | 5 |
| 26 | Dynamics of Adsorbate Islands with Nanoscale Resolution. <i>Journal of Statistical Physics</i> , 2000, 101, 621-629. | 1.2 | 4 |
| 27 | Nonlinear Theory of Anomalous Diffusion and Application to Fluorescence Correlation Spectroscopy. <i>Journal of Statistical Physics</i> , 2015, 161, 1366-1378. | 1.2 | 4 |
| 28 | Generalized "Regression" of "Fluctuations Theory as Applied to the Second Viscosity. <i>Journal of Chemical Physics</i> , 1971, 54, 4443-4450. | 3.0 | 3 |
| 29 | Nonlinear lattice gas hydrodynamics. <i>Journal of Statistical Physics</i> , 1997, 87, 1123-1130. | 1.2 | 2 |
| 30 | Propagation-Dispersion Equation. <i>Journal of Statistical Physics</i> , 2003, 113, 527-548. | 1.2 | 2 |
| 31 | Temporal Diffusion: From Microscopic Dynamics to Generalised Fokker-Planck and Fractional Equations. <i>Journal of Statistical Physics</i> , 2017, 166, 1441-1454. | 1.2 | 2 |
| 32 | Lattice gas with "interaction potential". <i>Journal of Statistical Physics</i> , 1995, 81, 361-377. | 1.2 | 1 |
| 33 | Lattice Boltzmann and nonextensive diffusion. <i>Europhysics News</i> , 2005, 36, 192-194. | 0.3 | 1 |
| 34 | Comment on "Possible divergences in Tsallis' thermostatics" by Plastino A. and Rocca M. C.. <i>Europhysics Letters</i> , 2014, 107, 10003. | 2.0 | 1 |