# Gerard T Barkema

List of Publications by Year
in descending order



| | | | |
|---|---|---|---|
| 31 papers | 456 citations | 687220 13 h-index | 713332 21 g-index |
| 31 all docs | 31 docs citations | 31 times ranked | 490 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Comparison of cluster algorithms for the bond-diluted Ising model. Physical Review E, 2022, 105, 015313. | 0.8 | 2 |
| 2 | Structural dynamics of polycrystalline graphene. Physical Review E, 2022, 105, 044116. | 0.8 | 3 |
| 3 | Rupture of amorphous grapheneviavoid formation. Physical Chemistry Chemical Physics, 2018, 20, 16966-16972. | 1.3 | 2 |
| 4 | Efficient simulation of semiflexible polymers with stiff bonds. Physical Review E, 2017, 95, 012502. | 0.8 | 2 |
| 5 | Structural characterization of carbon nanotubes via the vibrational density of states. Carbon, 2017, 118, 58-65. | 5.4 | 15 |
| 6 | An introduction to Monte Carlo methods. Physica A: Statistical Mechanics and Its Applications, 2015, 418, 78-87. | 1.2 | 48 |
| 7 | Monte Carlo methods beyond detailed balance. Physica A: Statistical Mechanics and Its Applications, 2015, 418, 88-93. | 1.2 | 9 |
| 8 | SAWdoubler: A program for counting self-avoiding walks. Computer Physics Communications, 2013, 184, 891-898. | 3.0 | 11 |
| 9 | A model for the dynamics of extensible semiflexible polymers. Journal of Statistical Mechanics: Theory and Experiment, 2012, 2012, P12019. | 0.9 | 8 |
| 10 | Critical exponents of the pair contact process with diffusion. Journal of Statistical Mechanics: Theory and Experiment, 2012, 2012, P03009. | 0.9 | 8 |
| 11 | Saturation of front propagation in a reaction diffusion process describing plasma damage in porous low-<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>k</mml:mi></mml:mrow></mml:math>materials. Physical Review B, 2011, 83, . | 1.1 | 4 |
| 12 | The equilibrium winding angle of a polymer around a bar. Journal of Statistical Mechanics: Theory and Experiment, 2011, 2011, P10020. | 0.9 | 12 |
| 13 | Exact enumeration of self-avoiding walks. Journal of Statistical Mechanics: Theory and Experiment, 2011, 2011, P06019. | 0.9 | 36 |
| 14 | Structural modes of a polymer in the repton model. Journal of Chemical Physics, 2011, 134, 154901. | 1.2 | 8 |
| 15 | Simulations of color development in tinted paints. Journal of Colloid and Interface Science, 2010, 344, 256-260. | 5.0 | 0 |
| 16 | Elastic lattice polymers. Physical Review E, 2010, 81, 061801. | 0.8 | 9 |
| 17 | Frequency-dependent stiffening of semiflexible networks: A dynamical nonaffine to affine transition. Physical Review E, 2010, 82, 061902. | 0.8 | 29 |
| 18 | Non-Markovian dynamics of clusters during nucleation. Physical Review E, 2009, 79, 062101. | 0.8 | 7 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Inverse Langmuir method for oligonucleotide microarray analysis. BMC Bioinformatics, 2009, 10, 64. | 1.2 | 13 |
| 20 | Analysis of the variability of the axial dipole moment of a numerical geodynamo model. Physics of the Earth and Planetary Interiors, 2009, 173, 228-232. | 0.7 | 14 |
| 21 | Linear model for fast background subtraction in oligonucleotide microarrays. Algorithms for Molecular Biology, 2009, 4, 15. | 0.3 | 1 |
| 22 | Monte Carlo study of multiply crosslinked semiflexible polymer networks. Physical Review E, 2008, 78, 051801. | 0.8 | 44 |
| 23 | Universality class of the pair contact process with diffusion. Physical Review E, 2008, 78, 031129. | 0.8 | 15 |
| 24 | Modeling background intensity in DNA microarrays. Physical Review E, 2008, 77, 061915. | 0.8 | 10 |
| 25 | Physical-Chemistry-Based Analysis of Affymetrix Microarray Data. Journal of Physical Chemistry B, 2006, 110, 22786-22795. | 1.2 | 13 |
| 26 | Spinodal decomposition via surface diffusion in polymer mixtures. Physical Review E, 2006, 74, 011804. | 0.8 | 10 |
| 27 | Comment on â€œSolving the riddle of the bright mismatches: Labeling and effective binding in oligonucleotide arraysâ€• Physical Review E, 2006, 73, 063901; author reply 063902. | 0.8 | 11 |
| 28 | Phase separation driven by surface diffusion: A Monte Carlo study. Physical Review E, 2005, 72, 046131. | 0.8 | 37 |
| 29 | Nucleation times in the two-dimensional Ising model. Physical Review E, 2005, 71, 031601. | 0.8 | 36 |
| 30 | Magnetization reversal times in the two-dimensional Ising model. Physical Review E, 2003, 67, 026119. | 0.8 | 14 |
| 31 | Universality in the pair contact process with diffusion. Physical Review E, 2003, 68, 036113. | 0.8 | 25 |