Michel G Gauthier

List of Publications by Year
in descending order

16 papers	442 citations	759055 12 h-index	940416 16 g-index
16 all docs	16 docs citations	16 times ranked	328 citing authors

#	Article	IF	Citations
1	A Monte Carlo algorithm to study polymer translocation through nanopores. I. Theory and numerical approach. Journal of Chemical Physics, 2008, 128, 065103.	1.2	65
2	A Monte Carlo algorithm to study polymer translocation through nanopores. II. Scaling laws. Journal of Chemical Physics, 2008, 128, 205103.	1.2	54
3	Regulation of DNA Replication within the Immunoglobulin Heavy-Chain Locus During B Cell Commitment. PLoS Biology, 2012, 10, e1001360.	2.6	48
4	The theory of DNA separation by capillary electrophoresis. Current Opinion in Biotechnology, 2003, 14, 58-64.	3.3	47
5	Nondriven polymer translocation through a nanopore: Computational evidence that the escape and relaxation processes are coupled. Physical Review E, 2009, 79, 021802.	0.8	38
6	Building reliable lattice Monte Carlo models for real drift and diffusion problems. Physical Review E, 2004, 70, 015103.	0.8	30
7	Control of DNA Replication by Anomalous Reaction-Diffusion Kinetics. Physical Review Letters, 2009, 102, 158104.	2.9	30
8	Sequence effects on the forced translocation of heteropolymers through a small channel. Journal of Chemical Physics, 2008, 128, 175103.	1.2	28
9	Exactly solvable Ogston model of gel electrophoresis. IX. Generalizing the lattice model to treat high field intensities. Journal of Chemical Physics, 2002, 117, 6745-6756.	1.2	21
10	Defects and DNA Replication. Physical Review Letters, 2010, 104, 218104.	2.9	21
11	Modeling Inhomogeneous DNA Replication Kinetics. PLoS ONE, 2012, 7, e32053.	1.1	20
12	An exactly solvable Ogston model of gel electrophoresis:â€‚X. Application to high-field separation techniques. Electrophoresis, 2003, 24, 441-451.	1.3	13
13	The importance of introducing a waiting time for Lattice Monte Carlo simulations of a polymer translocation process. Computer Physics Communications, 2011, 182, 29-32.	3.0	9
14	A new set of Monte Carlo moves for lattice random-walk models of biased diffusion. Physica A: Statistical Mechanics and Its Applications, 2005, 355, 283-296.	1.2	7
15	Generalized Taylorâ€“Aris dispersion analysis of spatially periodic lattice Monte Carlo models: Effect of discrete time. Journal of Chemical Physics, 2003, 119, 6979-6980.	1.2	6
16	Biased random walks on a lattice: Exact numerical method to study the effect of alternating fields in disordered and asymmetric systems of obstacles. Physical Review E, 2008, 78, 065701.	0.8	5