

David Sean

List of Publications by Year in descending order

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docs citations

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times ranked

475
citing authors

#	ARTICLE	IF	CITATIONS
1	Modeling the separation of macromolecules: A review of current computer simulation methods. <i>Electrophoresis</i> , 2009, 30, 792-818.	2.4	126
2	Simulations of ionization equilibria in weak polyelectrolyte solutions and gels. <i>Soft Matter</i> , 2019, 15, 1155-1185.	2.7	78
3	Interfacing solid-state nanopores with gel media to slow DNA translocations. <i>Electrophoresis</i> , 2015, 36, 1759-1767.	2.4	35
4	Free Energy of a Polymer in Slit-like Confinement from the Odijk Regime to the Bulk. <i>Macromolecules</i> , 2016, 49, 9266-9271.	4.8	22
5	Translocation of a polymer through a nanopore starting from a confining nanotube. <i>Electrophoresis</i> , 2015, 36, 682-691.	2.4	21
6	Using a Péclet number for the translocation of a polymer through a nanopore to tune coarse-grained simulations to experimental conditions. <i>Physical Review E</i> , 2015, 91, 022601.	2.1	17
7	Computer Simulations of Static and Dynamical Properties of Weak Polyelectrolyte Nanogels in Salty Solutions. <i>Gels</i> , 2018, 4, 2.	4.5	17
8	Modeling Gel Swelling Equilibrium in the Mean Field: From Explicit to Poisson-Boltzmann Models. <i>Physical Review Letters</i> , 2019, 122, 208002.	7.8	14
9	Physical confinement signals regulate the organization of stem cells in three dimensions. <i>Journal of the Royal Society Interface</i> , 2016, 13, 20160613.	3.4	11
10	Highly driven polymer translocation from a cylindrical cavity with a finite length. <i>Journal of Chemical Physics</i> , 2017, 146, 054903.	3.0	10
11	Reducing the variance in the translocation times by prestretching the polymer. <i>Physical Review E</i> , 2018, 98, 022501.	2.1	6
12	Electrophoretic mobility of partially denatured DNA in a gel: Qualitative and semiquantitative differences between bubbles and split ends. <i>Electrophoresis</i> , 2012, 33, 1341-1348.	2.4	5
13	Langevin dynamics simulations of driven polymer translocation into a cross-linked gel. <i>Electrophoresis</i> , 2017, 38, 653-658.	2.4	4
14	Physical interpretation of the λ parameter in the theory for the gel electrophoresis of partially denatured DNA. <i>Electrophoresis</i> , 2010, 31, 3446-3449.	2.4	2
15	Gel electrophoresis of DNA partially denatured at the ends: What are the dominant conformations?. <i>Electrophoresis</i> , 2013, 34, 745-752.	2.4	2
16	Rotation-Induced Macromolecular Spooling of DNA. <i>Physical Review X</i> , 2017, 7, .	8.9	2
17	Influence of weak groups on polyelectrolyte mobilities. <i>Electrophoresis</i> , 2019, 40, 799-809.	2.4	1
18	Can gel concentration gradients improve two-dimensional DNA displays?. <i>Electrophoresis</i> , 2014, 35, 736-745.	2.4	0