Alexey Savelyev

List of Publications by Year
in descending order

20 papers	1,284 citations	516710 16 h-index	839539 18 g-index
20 all docs	20 docs citations	20 times ranked	1170 citing authors

#	Article	IF	Citations
1	Assessment of the DNA partial specific volume and hydration layer properties from CHARMM Drude polarizable and additive MD simulations. Physical Chemistry Chemical Physics, 2021, 23, 10524-10535.	2.8	4
2	Moving analytical ultracentrifugation software to a good manufacturing practices (GMP) environment. PLoS Computational Biology, 2020, 16, e1007942.	3.2	20
3	Moving analytical ultracentrifugation software to a good manufacturing practices (GMP) environment. , 2020, 16, e1007942.		0
4	Moving analytical ultracentrifugation software to a good manufacturing practices (GMP) environment. , 2020, 16, e1007942.		0
5	Competition among Li⁺, Na⁺, K⁺, and Rb⁺ Monovalent Ions for DNA in Molecular Dynamics Simulations Using the Additive CHARMM36 and Drude Polarizable Force Fields. Journal of Physical Chemistry B, 2015, 119, 4428-4440.	2.6	80
6	Differential Deformability of the DNA Minor Groove and Altered BI/BII Backbone Conformational Equilibrium by the Monovalent Ions Li⁺, Na⁺, K⁺, and Rb⁺ via Water-Mediated Hydrogen Bonding. Journal of Chemical Theory and Computation, 2015, 11, 4473-4485.	5.3	26
7	Differential Impact of the Monovalent Ions Li⁺, Na⁺, K⁺, and Rb⁺ on DNA Conformational Properties. Journal of Physical Chemistry Letters, 2015, 6, 212-216.	4.6	51
8	Allâ€atom polarizable force field for DNA based on the classical drude oscillator model. Journal of Computational Chemistry, 2014, 35, 1219-1239.	3.3	136
9	Induced Polarization Influences the Fundamental Forces in DNA Base Flipping. Journal of Physical Chemistry Letters, 2014, 5, 2077-2083.	4.6	59
10	Balancing the Interactions of Ions, Water, and DNA in the Drude Polarizable Force Field. Journal of Physical Chemistry B, 2014, 118, 6742-6757.	2.6	74
11	Recent successes in coarseâ€grained modeling of DNA. Wiley Interdisciplinary Reviews: Computational Molecular Science, 2013, 3, 69-83.	14.6	81
12	Do monovalent mobile ions affect DNA's flexibility at high salt content?. Physical Chemistry Chemical Physics, 2012, 14, 2250.	2.8	68
13	Is DNAâ€™s Rigidity Dominated by Electrostatic or Nonelectrostatic Interactions?. Journal of the American Chemical Society, 2011, 133, 19290-19293.	13.7	63
14	Chemically accurate coarse graining of double-stranded DNA. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 20340-20345.	7.1	150
15	Counterion Atmosphere and Hydration Patterns near a Nucleosome Core Particle. Journal of the American Chemical Society, 2009, 131, 15005-15013.	13.7	90
16	Molecular Renormalization Group Coarse-Graining of Polymer Chains: Application to Double-Stranded DNA. Biophysical Journal, 2009, 96, 4044-4052.	0.5	80
17	Molecular Renormalization Group Coarse-Graining of Electrolyte Solutions: Application to Aqueous NaCl and KCl. Journal of Physical Chemistry B, 2009, 113, 7785-7793.	2.6	76
18	Polyionic Charge Density Plays a Key Role in Differential Recognition of Mobile Ions by Biopolymers. Journal of Physical Chemistry B, 2008, 112, 9135-9145.	2.6	26

#	Article	IF	Citations
19	Inter-DNA Electrostatics from Explicit Solvent Molecular Dynamics Simulations. Journal of the American Chemical Society, 2007, 129, 6060-6061.	13.7	62
20	Electrostatic, Steric, and Hydration Interactions Favor Na+ Condensation around DNA Compared with K+. Journal of the American Chemical Society, 2006, 128, 14506-14518.	13.7	138