

Alexander Balaeff

List of Publications by Year in descending order

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Version: 2024-02-01

22
papers

1,333
citations

471509

17
h-index

713466

21
g-index

23
all docs

23
docs citations

23
times ranked

1476
citing authors

#	ARTICLE	IF	CITATIONS
1	Charge splitters and charge transport junctions based on guanine quadruplexes. <i>Nature Nanotechnology</i> , 2018, 13, 316-321.	31.5	46
2	DNA charge transport: Moving beyond 1D. <i>Surface Science</i> , 2016, 652, 33-38.	1.9	16
3	Nonequilibrium Hybridization Enables Discrimination of a Point Mutation within 5â€“40 Â°C. <i>Journal of the American Chemical Society</i> , 2016, 138, 13465-13468.	13.7	31
4	Two-color spectroscopy of UV excited ssDNA complex with a single-wall nanotube photoluminescence probe: Fast relaxation by nucleobase autoionization mechanism. <i>Nano Research</i> , 2016, 9, 571-583.	10.4	7
5	Biological charge transfer via flickering resonance. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 10049-10054.	7.1	140
6	Effect of Backbone Flexibility on Charge Transfer Rates in Peptide Nucleic Acid Duplexes. <i>Journal of the American Chemical Society</i> , 2012, 134, 9335-9342.	13.7	38
7	Electronic Structure of Self-Assembled Peptide Nucleic Acid Thin Films. <i>Journal of Physical Chemistry C</i> , 2011, 115, 17123-17135.	3.1	17
8	Evidence for a Near-Resonant Charge Transfer Mechanism for Double-Stranded Peptide Nucleic Acid. <i>Journal of the American Chemical Society</i> , 2011, 133, 62-72.	13.7	45
9	B-DNA to Zip-DNA: Simulating a DNA Transition to a Novel Structure with Enhanced Charge-Transport Characteristics. <i>Journal of Physical Chemistry A</i> , 2011, 115, 9377-9391.	2.5	25
10	Nucleic acid charge transfer: Black, white and gray. <i>Coordination Chemistry Reviews</i> , 2011, 255, 635-648.	18.8	109
11	Is MD Geometry Sampling Sufficient for Nucleobase Electronic Structure Analysis of ET Reactions? Comparing Classical MD and QM/MM Methods. <i>Journal of Physical Chemistry C</i> , 2010, 114, 20496-20502.	3.1	13
12	Role of Nucleobase Energetics and Nucleobase Interactions in Single-Stranded Peptide Nucleic Acid Charge Transfer. <i>Journal of the American Chemical Society</i> , 2009, 131, 6498-6507.	13.7	55
13	Steering Electrons on Moving Pathways. <i>Accounts of Chemical Research</i> , 2009, 42, 1669-1678.	15.6	168
14	PNA versus DNA: Effects of Structural Fluctuations on Electronic Structure and Hole-Transport Mechanisms. <i>Journal of the American Chemical Society</i> , 2008, 130, 11752-11761.	13.7	112
15	Solution Structure of a Peptide Nucleic Acid Duplex from NMR Data: Features and Limitations. <i>Journal of the American Chemical Society</i> , 2008, 130, 13264-13273.	13.7	50
16	Modeling DNA loops using the theory of elasticity. <i>Physical Review E</i> , 2006, 73, 031919.	2.1	79
17	Structural dynamics of the lac repressor-DNA complex revealed by a multiscale simulation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 6783-6788.	7.1	135
18	Structural Basis for Cooperative DNA Binding by CAP and Lac Repressor. <i>Structure</i> , 2004, 12, 123-132.	3.3	49

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19	Multiscale Method for Simulating Protein-DNA Complexes. Multiscale Modeling and Simulation, 2004, 2, 527-553.	1.6	68
20	Elastic Rod Model of a DNA Loop in the Lac Operon. Physical Review Letters, 1999, 83, 4900-4903.	7.8	75
21	Structure prediction of a complex between the chromosomal protein HMG-D and DNA. , 1998, 30, 113-135.		30
22	DNA Sequencing by Hybridization to Oligonucleotide Matrix. Calculation of Continuous Stacking Hybridization Efficiency. Journal of Biomolecular Structure and Dynamics, 1994, 11, 797-812.	3.5	25