

Kenneth Breslauer

List of Publications by Year in descending order

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44
papers

4,924
citations

304743

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276875

41
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47
all docs

47
docs citations

47
times ranked

3311
citing authors

#	ARTICLE	IF	CITATIONS
1	Differential repair enzyme-substrate selection within dynamic DNA energy landscapes. Quarterly Reviews of Biophysics, 2022, 55, 1-56.	5.7	5
2	The shaping of a molecular linguist: How a career studying DNA energetics revealed the language of molecular communication. Journal of Biological Chemistry, 2021, 296, 100522.	3.4	5
3	Energy mapping of the genetic code and genomic domains: implications for code evolution and molecular Darwinism. Quarterly Reviews of Biophysics, 2020, 53, e11.	5.7	10
4	Heat Capacity Changes (ΔC_p) for Interconversions between Differentially-Ordered DNA States within Physiological Temperature Domains: Implications for Biological Regulatory Switches. Journal of Physical Chemistry B, 2020, 124, 5614-5625.	2.6	4
5	Dynamic DNA Energy Landscapes and Substrate Complexity in Triplet Repeat Expansion and DNA Repair. Biomolecules, 2019, 9, 709.	4.0	6
6	Impact of bistrand abasic sites and proximate orientation on DNA global structure and duplex energetics. Biopolymers, 2018, 109, e23098.	2.4	15
7	Jack Aviv: Scientist, instrument wizard, humanist and philanthropist. Biopolymers, 2018, 109, e23227.	2.4	0
8	Conformational diversity of single-stranded DNA from bacterial repetitive extragenic palindromes: Implications for the DNA recognition elements of transposases. Biopolymers, 2015, 103, 585-596.	2.4	8
9	Impact of thymine glycol damage on DNA duplex energetics: Correlations with lesion-induced biochemical and structural consequences. Biopolymers, 2015, 103, 491-508.	2.4	12
10	Impact of bulge loop size on DNA triplet repeat domains: Implications for DNA repair and expansion. Biopolymers, 2014, 101, 1-12.	2.4	14
11	APE1 Incision Activity at Abasic Sites in Tandem Repeat Sequences. Journal of Molecular Biology, 2014, 426, 2183-2198.	4.2	22
12	Introductory editorial: Biopolymers celebrates 50 years of nucleic acids research. Biopolymers, 2013, 99, n/a-n/a.	2.4	0
13	Energy Landscapes of Dynamic Ensembles of Rolling Triplet Repeat Bulge Loops: Implications for DNA Expansion Associated with Disease States. Journal of the American Chemical Society, 2012, 134, 6033-6044.	13.7	22
14	Energetic coupling between clustered lesions modulated by intervening triplet repeat bulge loops: Allosteric implications for DNA repair and triplet repeat expansion. Biopolymers, 2010, 93, 355-369.	2.4	11
15	DNA Repair and DNA Triplet Repeat Expansion: The Impact of Abasic Lesions on Triplet Repeat DNA Energetics. Journal of the American Chemical Society, 2009, 131, 9354-9360.	13.7	25
16	DNA energy landscapes via calorimetric detection of microstate ensembles of metastable macrostates and triplet repeat diseases. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 18326-18330.	7.1	21
17	DNA Metastability and Biological Regulation: Conformational Dynamics of Metastable DNA Bulge Loops. Journal of the American Chemical Society, 2007, 129, 5272-5280.	13.7	23
18	Conformational energetics of stable and metastable states formed by DNA triplet repeat oligonucleotides: Implications for triplet expansion diseases. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 14700-14705.	7.1	52

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19	Fluorescence energy transfer monitored competitive equilibria of nucleic acids: Applications in thermodynamics and screening. <i>Biopolymers</i> , 2002, 61, 214-223.	2.4	3
20	High-resolution calorimetric and optical melting profiles of DNA plasmids: Resolving contributions from intrinsic melting domains and specifically designed inserts. , 1999, 50, 303-318.		29
21	The hydration of nucleic acid duplexes as assessed by a combination of volumetric and structural techniques. , 1999, 50, 459-471.		80
22	On volume changes accompanying conformational transitions of biopolymers. , 1998, 39, 619-626.		177
23	Volumetric properties of nucleic acids. <i>Biopolymers</i> , 1998, 48, 264-280.	2.4	19
24	Thermodynamic Consequences of an Abasic Lesion in Duplex DNA Are Strongly Dependent on Base Sequence. <i>Biochemistry</i> , 1998, 37, 7321-7327.	2.5	130
25	The Impact of an Exocyclic Cytosine Adduct on DNA Duplex Properties: Significant Thermodynamic Consequences Despite Modest Lesion-Induced Structural Alterations. <i>Biochemistry</i> , 1998, 37, 12507-12512.	2.5	27
26	Design, Synthesis, and Analysis of Disulfide Cross-Linked DNA Duplexes. <i>Journal of the American Chemical Society</i> , 1996, 118, 11993-12003.	13.7	60
27	Spectroscopic and Calorimetric Characterizations of DNA Duplexes Containing 2-Aminopurine. <i>Biochemistry</i> , 1996, 35, 12329-12337.	2.5	172
28	Spectroscopic and volumetric investigation of cytochrome c unfolding at alkaline pH: characterization of the base-induced unfolded state at 25°C. <i>FASEB Journal</i> , 1996, 10, 164-170.	0.5	38
29	Construction of a wheat-flour state diagram. <i>Journal of Thermal Analysis</i> , 1996, 47, 1267-1288.	0.6	41
30	The impact of a bistrand abasic lesion on DNA duplex properties. <i>Biopolymers</i> , 1996, 38, 439-445.	2.4	19
31	Hybridization Properties of Oligodeoxynucleotide Pairs Bridged by Polyarginine Peptides. <i>Nucleic Acids Research</i> , 1996, 24, 655-661.	14.5	22
32	Partial molar volumes, expansibilities, and compressibilities of oligoglycines in aqueous solutions at 18-55°C. <i>Biopolymers</i> , 1994, 34, 541-553.	2.4	82
33	A Monte Carlo method for generating structures of short single-stranded DNA sequences. <i>Biopolymers</i> , 1993, 33, 75-105.	2.4	21
34	Molecular recognition between oligopeptides and nucleic acids. Sequence specific binding of (4S)-(+)- and (4R)-(-)-dihydrokikumycin B to DNA deduced from 1H NMR, footprinting studies and thermodynamic data. <i>Journal of Molecular Recognition</i> , 1989, 2, 6-17.	2.1	14
35	The Thermodynamics of Drug-DNA Interactions: Ethidium Bromide and Propidium Iodide. <i>Journal of Biomolecular Structure and Dynamics</i> , 1987, 5, 345-359.	3.5	51
36	Enthalpy-entropy compensations in drug-DNA binding studies.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1987, 84, 8922-8926.	7.1	232

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37	Calculating thermodynamic data for transitions of any molecularity from equilibrium melting curves. <i>Biopolymers</i> , 1987, 26, 1601-1620.	2.4	1,130
38	The melting behavior of a DNA junction structure: A calorimetric and spectroscopic study. <i>Biopolymers</i> , 1987, 26, 1621-1634.	2.4	102
39	Predicting DNA duplex stability from the base sequence.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1986, 83, 3746-3750.	7.1	1,739
40	VACUUM ULTRAVIOLET CIRCULAR DICHROISM OF DOUBLE STRANDED NUCLEIC ACIDS. <i>Photochemistry and Photobiology</i> , 1986, 44, 295-301.	2.5	34
41	Salt-dependent conformational transitions in the self-complementary deoxydodecanucleotide d(CGCAATTCGCG): Evidence for hairpin formation. <i>Biopolymers</i> , 1983, 22, 1247-1257.	2.4	261
42	Thermodynamics of Drug-DNA Interactions. <i>Journal of Biomolecular Structure and Dynamics</i> , 1983, 1, 487-507.	3.5	82
43	Calorimetric determination of base-stacking enthalpies in double-helical DNA molecules. <i>Biopolymers</i> , 1982, 21, 2185-2194.	2.4	96
44	Effect of salt on the stability of the pH 4.2 rA8 double helix in a series of organic/aqueous mixed solvents: A test of oligoelectrolyte theory. <i>Biopolymers</i> , 1979, 18, 2167-2174.	2.4	6