Jens VÃ¶lker

List of Publications by Year
in descending order

34	1,105	471509 17	434195 31
papers	citations	h-index	g-index

39	39	39	1010
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A more unified picture for the thermodynamics of nucleic acid duplex melting: A characterization by calorimetric and volumetric techniques. Proceedings of the National Academy of Sciences of the United States of America, 1999, 96, 7853-7858.	7.1	233
2	Electrostatic Effects in DNA Triple Helixes. Biochemistry, 1994, 33, 13502-13508.	2.5	100
3	The hydration of nucleic acid duplexes as assessed by a combination of volumetric and structural techniques. , 1999, 50, 459-471.		80
4	The native and the heat-induced denatured states of Î±-chymotrypsinogen A: thermodynamic and spectroscopic studies. Journal of Molecular Biology, 1997, 274, 237-252.	4.2	76
5	Design, Synthesis, and Analysis of Disulfide Cross-Linked DNA Duplexes. Journal of the American Chemical Society, 1996, 118, 11993-12003.	13.7	60
6	Energetics of a Stable Intramolecular DNA Triple Helix Formation. Journal of Molecular Biology, 1993, 230, 1278-1290.	4.2	57
7	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
8	Universal constant for heat production in protists. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 6696-6699.	7.1	42
9	Structure and Dynamics in DNA Looped Domains:â€‰ CAG Triplet Repeat Sequence Dynamics Probed by 2-Aminopurine Fluorescence. Biochemistry, 2007, 46, 10756-10766.	2.5	38
10	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
11	The energetics of i-DNA tetraplex structures formed intermolecularly by d(TC5) and intramolecularly by d[(C5T3)3C5]. Biopolymers, 2007, 86, 136-147.	2.4	28
12	Counterion association with native and denatured nucleic acids: an experimental approach 1 1Edited by I. Tinoco. Journal of Molecular Biology, 2001, 310, 1011-1025.	4.2	26
13	Communication between noncontacting macromolecules. Proceedings of the National Academy of Sciences of the United States of America, 2001, 98, 7694-7699.	7.1	26
14	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
15	Thermodynamic Properties of a Conformationally Constrained Intramolecular DNA Triple Helix. Biochemistry, 1997, 36, 756-767.	2.5	24
16	DNA Metastability and Biological Regulation:Â Conformational Dynamics of Metastable Î©-DNA Bulge Loops. Journal of the American Chemical Society, 2007, 129, 5272-5280.	13.7	23
17	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
18	APE1 Incision Activity at Abasic Sites in Tandem Repeat Sequences. Journal of Molecular Biology, 2014, 426, 2183-2198.	4.2	22

#	Article	IF	Citations
19	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
20	Triple Helical Structures Involving Inosine:Â There Is a Penalty for Promiscuityâ€. Biochemistry, 1996, 35, 13338-13344.	2.5	17
21	Communication Between Noncontacting Macromolecules. Annual Review of Biophysics and Biomolecular Structure, 2005, 34, 21-42.	18.3	17
22	Impact of bulge loop size on DNA triplet repeat domains: Implications for DNA repair and expansion. Biopolymers, 2014, 101, 1-12.	2.4	14
23	Conformational changes in nucleic acids/chromatin structure. Thermochimica Acta, 1991, 193, 391-415.	2.7	11
24	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
25	Energy Crosstalk between DNA Lesions: Implications for Allosteric Coupling of DNA Repair and Triplet Repeat Expansion Pathways. Journal of the American Chemical Society, 2010, 132, 4095-4097.	13.7	11
26	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
27	Conformational diversity of singleâ€stranded <scp>DNA</scp> from bacterial repetitive extragenic palindromes: Implications for the <scp>DNA</scp> recognition elements of transposases. Biopolymers, 2015, 103, 585-596.	2.4	8
28	Dynamic DNA Energy Landscapes and Substrate Complexity in Triplet Repeat Expansion and DNA Repair. Biomolecules, 2019, 9, 709.	4.0	6
29	Differential repair enzyme-substrate selection within dynamic DNA energy landscapes. Quarterly Reviews of Biophysics, 2022, 55, 1-56.	5.7	5
30	Heat Capacity Changes (Î”C_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
31	DNA meter: Energy tunable, quantitative hybridization assay. Biopolymers, 2013, 99, 408-417.	2.4	3
32	Thermodynamic Properties of DNA. , 2005, , 1851-1855.		1
33	Energy-Tunable Quantitative Hybridization Assay. Biophysical Journal, 2013, 104, 260a.	0.5	0
34	Energy Landscapes of Triplet Repeat DNA Bulge Loops: Implications for DNA Expansion and Disease States. Biophysical Journal, 2013, 104, 77a.	0.5	0