

Michaela Vorlickova

List of Publications by Year in descending order

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98
papers

4,761
citations

172207

29
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102304

66
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102
all docs

102
docs citations

102
times ranked

4485
citing authors

#	ARTICLE	IF	CITATIONS
1	Circular dichroism and conformational polymorphism of DNA. <i>Nucleic Acids Research</i> , 2009, 37, 1713-1725.	6.5	1,415
2	Circular dichroism and guanine quadruplexes. <i>Methods</i> , 2012, 57, 64-75.	1.9	351
3	Circular Dichroism Spectroscopy of DNA: From Duplexes to Quadruplexes. <i>Chirality</i> , 2012, 24, 691-698.	1.3	248
4	Arrangements of human telomere DNA quadruplex in physiologically relevant K ⁺ solutions. <i>Nucleic Acids Research</i> , 2009, 37, 6625-6634.	6.5	181
5	Guanine tetraplex topology of human telomere DNA is governed by the number of (TTAGGG) repeats. <i>Nucleic Acids Research</i> , 2005, 33, 5851-5860.	6.5	154
6	A Nuclease Hypersensitive Element in the Human c-myc Promoter Adopts Several Distinct i-Tetraplex Structures. <i>Biochemical and Biophysical Research Communications</i> , 2000, 278, 158-166.	1.0	136
7	Circular dichroism spectroscopy reveals invariant conformation of guanine runs in DNA. <i>Biopolymers</i> , 2002, 67, 275-277.	1.2	107
8	Salt-induced conformational transition of poly[d(A-T)] \cdot poly[d(A-T)]. <i>Journal of Molecular Biology</i> , 1983, 166, 85-92.	2.0	92
9	A Z-like form of poly(dA-dC) \cdot poly(dC-bT) in solution?. <i>Nucleic Acids Research</i> , 1982, 10, 1071-1080.	6.5	91
10	Conformational Variability of Poly(dA-dT) \cdot Poly(dA-dT) and Some Other Deoxyribonucleic Acids Includes a Novel Type of Double Helix. <i>Journal of Biomolecular Structure and Dynamics</i> , 1985, 3, 67-83.	2.0	79
11	Polymorphism of human telomeric quadruplex structure controlled by DNA concentration: a Raman study. <i>Nucleic Acids Research</i> , 2013, 41, 1005-1016.	6.5	67
12	8-oxoguanine in a quadruplex of the human telomere DNA sequence. <i>FEBS Journal</i> , 2012, 279, 29-39.	2.2	66
13	Crystal structures of B-DNA dodecamer containing the epigenetic modifications 5-hydroxymethylcytosine or 5-methylcytosine. <i>Nucleic Acids Research</i> , 2013, 41, 9891-9900.	6.5	66
14	Systematic investigation of sequence requirements for DNA i-motif formation. <i>Nucleic Acids Research</i> , 2019, 47, 2177-2189.	6.5	61
15	A-like guanine-guanine stacking in the aqueous DNA duplex of d(GGGCCCC)11 Edited by I. Tinoco. <i>Journal of Molecular Biology</i> , 2001, 307, 513-524.	2.0	60
16	Conformational transitions of poly(dA-dT) \cdot poly(dA-dT) in ethanolic solutions. <i>Nucleic Acids Research</i> , 1982, 10, 6969-6979.	6.5	59
17	Salt-induced conformational changes of poly(dA-dT). <i>Nucleic Acids Research</i> , 1980, 8, 3965-3974.	6.5	54
18	The thrombin binding aptamer GGTGGTGTGGTTGG forms a bimolecular guanine tetraplex. <i>Biochemical and Biophysical Research Communications</i> , 2006, 344, 50-54.	1.0	48

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19	Intramolecular and intermolecular guanine quadruplexes of DNA in aqueous salt and ethanol solutions. <i>Biopolymers</i> , 2007, 86, 1-10.	1.2	47
20	Ethanol is a better inducer of DNA guanine tetraplexes than potassium cations. <i>Biopolymers</i> , 2006, 82, 253-260.	1.2	44
21	Quadruplexes of human telomere dG3(TTAG3)3 sequences containing guanine abasic sites. <i>Biochemical and Biophysical Research Communications</i> , 2010, 399, 203-208.	1.0	39
22	Substitution of adenine for guanine in the quadruplex-forming human telomere DNA sequence G3(T2AG3)3. <i>Biochimie</i> , 2009, 91, 171-179.	1.3	38
23	Cooperative changes in the chiroptical properties of DNA induced by methanol. <i>Biopolymers</i> , 1984, 23, 1-4.	1.2	36
24	Dimerization of the guanine-adenine repeat strands of DNA. <i>Nucleic Acids Research</i> , 1999, 27, 581-586.	6.5	34
25	Conformation of the synthetic DNA poly(amino2dA-dT) duplex in high-salt and aqueous alcohol solutions. <i>Nucleic Acids Research</i> , 1988, 16, 279-289.	6.5	33
26	The guanine-rich fragile X chromosome repeats are reluctant to form tetraplexes. <i>Nucleic Acids Research</i> , 2004, 32, 298-306.	6.5	33
27	Conserved guanine-guanine stacking in tetraplex and duplex DNA. <i>European Biophysics Journal</i> , 2001, 30, 555-558.	1.2	32
28	Conformational properties of DNA strands containing guanine-adenine and thymine-adenine repeats. <i>Nucleic Acids Research</i> , 1998, 26, 1509-1514.	6.5	31
29	Guanine quadruplexes are formed by specific regions of human transposable elements. <i>BMC Genomics</i> , 2014, 15, 1032.	1.2	31
30	Wild-type p53 binds to <i>MYC</i> promoter G-quadruplex. <i>Bioscience Reports</i> , 2016, 36, .	1.1	31
31	Strance double helix of poly(dA-dT) in high-salt solution. <i>Biochemical and Biophysical Research Communications</i> , 1981, 99, 1257-1264.	1.0	30
32	Quadruplex-forming sequences occupy discrete regions inside plant LTR retrotransposons. <i>Nucleic Acids Research</i> , 2014, 42, 968-978.	6.5	30
33	G-quadruplex formation in the Oct4 promoter positively regulates Oct4 expression. <i>Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms</i> , 2017, 1860, 175-183.	0.9	29
34	Loss of loop adenines alters human telomere d[AG3(TTAG3)3] quadruplex folding. <i>Nucleic Acids Research</i> , 2014, 42, 14031-14041.	6.5	28
35	Divalent Zinc Cations Induce the Formation of Two Distinct Homoduplexes of a d(GA)20 DNA Sequence. <i>Biochemistry</i> , 1995, 34, 14408-14415.	1.2	27
36	CGG repeats associated with fragile X chromosome form left-handed Z-DNA structure. <i>Biopolymers</i> , 2011, 95, 174-181.	1.2	27

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37	CD Study of the G-Quadruplex Conformation. <i>Methods in Molecular Biology</i> , 2019, 2035, 25-44.	0.4	27
38	Circular dichroism spectroscopy of conformers of (guanine + adenine) repeat strands of DNA. <i>Chirality</i> , 2003, 15, 584-592.	1.3	26
39	Elongated Thrombin Binding Aptamer: A G-Quadruplex Cation-Sensitive Conformational Switch. <i>Chemistry - A European Journal</i> , 2012, 18, 4392-4400.	1.7	25
40	i-Motif of cytosine-rich human telomere DNA fragments containing natural base lesions. <i>Nucleic Acids Research</i> , 2018, 46, 1624-1634.	6.5	25
41	A Study of Changes in DNA Conformation Caused by Ionizing and Ultra-violet Radiation by Means of Pulse Polarography and Circular Dichroism. <i>International Journal of Radiation Biology and Related Studies in Physics, Chemistry, and Medicine</i> , 1974, 26, 363-372.	1.0	24
42	Unique <i>C. elegans</i> telomeric overhang structures reveal the evolutionarily conserved properties of telomeric DNA. <i>Nucleic Acids Research</i> , 2015, 43, 4733-4745.	6.5	24
43	Clustered abasic lesions profoundly change the structure and stability of human telomeric G-quadruplexes. <i>Nucleic Acids Research</i> , 2017, 45, 4294-4305.	6.5	24
44	Poly(amino2dA-dT) Isomerizes into the Unusual X-DNA Double Helix at Physiological Conditions Inducing Z-DNA in Poly(dG-methyl5dC). <i>Journal of Biomolecular Structure and Dynamics</i> , 1988, 6, 503-510.	2.0	23
45	Conformational properties of DNA fragments containing GAC trinucleotide repeats associated with skeletal displasias. <i>European Biophysics Journal</i> , 2001, 30, 179-185.	1.2	23
46	Oligo(dT) is not a correct native PAGE marker for single-stranded DNA. <i>Biochemical and Biophysical Research Communications</i> , 2007, 353, 776-779.	1.0	22
47	Changes in properties of DNA caused by gamma and ultraviolet radiation. Dependence of conformational changes on the chemical nature of the damage. <i>Nucleic Acids and Protein Synthesis</i> , 1978, 517, 308-318.	1.7	19
48	Quadruplex-forming properties of FRAXA (CGG) repeats interrupted by (AGG) triplets. <i>Biochimie</i> , 2009, 91, 416-422.	1.3	19
49	Composite 5-methylations of cytosines modulate i-motif stability in a sequence-specific manner: Implications for DNA nanotechnology and epigenetic regulation of plant telomeric DNA. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2020, 1864, 129651.	1.1	19
50	Non-histone chromosomal protein HMG1 reduces the histone H5-induced changes in c.d. spectra of DNA: the acidic C-terminus of HMG1 is necessary for binding to H5. <i>International Journal of Biological Macromolecules</i> , 1990, 12, 282-288.	3.6	18
51	Destabilization of the duplex and the high-salt Z-form of poly(dG-methyl5dC) by substitution of ethyl for the 5-methyl group. <i>International Journal of Biological Macromolecules</i> , 1991, 13, 329-336.	3.6	18
52	The Unusual X-Form DNA in Oligodeoxynucleotides: Dependence of Stability on the Base Sequence and Length. <i>Journal of Biomolecular Structure and Dynamics</i> , 1996, 13, 999-1006.	2.0	18
53	Molecular and crystal structures of (+)-homochelidonine, (+)-chelamine, and (α^*)-norchelidonine. <i>Journal of Molecular Structure</i> , 2005, 734, 1-6.	1.8	18
54	Thymine Methyl Groups Stabilize the Putative A-Form of the Synthetic DNA Poly(amino2dA-dT). <i>Biochemistry</i> , 1994, 33, 3801-3806.	1.2	17

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55	Conformational properties of DNA dodecamers containing four tandem repeats of the CNG triplets. <i>Nucleic Acids Research</i> , 1998, 26, 2679-2685.	6.5	17
56	Estimation of submicrogram quantities of proteins in nucleic acids samples by pulse-polarographic technique. <i>Nucleic Acids and Protein Synthesis</i> , 1973, 331, 276-282.	1.7	16
57	Stability of Two-Quartet G-Quadruplexes and Their Dimers in Atomistic Simulations. <i>Journal of Chemical Theory and Computation</i> , 2020, 16, 3447-3463.	2.3	16
58	Aliphatic substituents in place of thymine methyl promote zig-zag character of the poly(dA-dT)-poly(dA-dT) backbone. <i>International Journal of Biological Macromolecules</i> , 1987, 9, 131-136.	3.6	15
59	Stability of human telomere quadruplexes at high DNA concentrations. <i>Biopolymers</i> , 2014, 101, 428-438.	1.2	15
60	G-quadruplex-based structural transitions in 15-mer DNA oligonucleotides varying in lengths of internal oligo(dG) stretches detected by voltammetric techniques. <i>Analytical and Bioanalytical Chemistry</i> , 2015, 407, 5817-5826.	1.9	15
61	Diverse effects of naturally occurring base lesions on the structure and stability of the human telomere DNA quadruplex. <i>Biochimie</i> , 2015, 118, 15-25.	1.3	15
62	G-Quadruplex Formation by DNA Sequences Deficient in Guanines: Two Tetrad Parallel Quadruplexes Do Not Fold Intramolecularly. <i>Chemistry - A European Journal</i> , 2021, 27, 12115-12125.	1.7	15
63	Conformational transitions of a synthetic DNA poly(dA-dU). poly(dA-dU) in concentrated solutions of caesium fluoride. <i>International Journal of Biological Macromolecules</i> , 1984, 6, 77-80.	3.6	14
64	Circular dichroism spectroscopy analysis of conformational transitions of a 54 base pair DNA duplex composed of alternating CGCGCG and TATATA blocks. , 1999, 5, 253-262.		14
65	Dimethylsulfoxide-stabilized conformer of guanine-adenine repeat strand of DNA. <i>Biopolymers</i> , 2001, 62, 81-84.	1.2	14
66	p53 binds human telomeric G-quadruplex in vitro. <i>Biochimie</i> , 2016, 128-129, 83-91.	1.3	14
67	Conformations of alternating purine-pyrimidine DNAs in high-CsF solutions and their reversal by dipyrandium, ethidium and high temperature. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 1985, 838, 244-251.	1.1	13
68	Alkyl Substituent in Place of the Thymine Methyl Group Controls the A-X Conformational Bimorphism in Poly(dA-dT). <i>Journal of Biomolecular Structure and Dynamics</i> , 1991, 9, 571-578.	2.0	13
69	Quadruplexes of human telomere DNA analogs designed to contain C:A:G:A, G:G:A:A, and A:A:A:A tetrads. <i>Biopolymers</i> , 2010, 93, 880-886.	1.2	13
70	Does Raman spectroscopy recognize different G-quadruplex arrangements?. <i>Journal of Raman Spectroscopy</i> , 2020, 51, 301-312.	1.2	13
71	Guanine quadruplexes in the RNA genome of the tick-borne encephalitis virus: their role as a new antiviral target and in virus biology. <i>Nucleic Acids Research</i> , 2022, 50, 4574-4600.	6.5	11
72	Vacuum-UV CD spectrum of the X-form of double-stranded poly(dA-dT). <i>Biopolymers</i> , 1994, 34, 299-301.	1.2	10

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73	Guanine quadruplex formation by RNA/DNA hybrid analogs of <i>Oxytricha</i> telomere G ₄ T ₄ G ₄ fragment. <i>Biopolymers</i> , 2008, 89, 797-806.	1.2	10
74	Divalent Cations are not Required for the Stability of the Low-Salt Z-DNA Conformation in Poly(dG-ethyl ⁵ dC). <i>Journal of Biomolecular Structure and Dynamics</i> , 1989, 7, 329-334.	2.0	9
75	UV Light-Induced Crosslinking of the Strands of Poly(dA-dT) and Related Alternating Purine-Pyrimidine DNAs. <i>Journal of Biomolecular Structure and Dynamics</i> , 1994, 11, 1225-1236.	2.0	9
76	DNA homoduplexes containing no pyrimidine nucleotide. <i>European Biophysics Journal</i> , 2003, 32, 154-158.	1.2	9
77	Conformational properties of DNA containing (CCA) _n and (TGG) _n trinucleotide repeats. <i>International Journal of Biological Macromolecules</i> , 2005, 36, 23-32.	3.6	9
78	Dynamic Structures of DNA Heptamers with Different Central Trinucleotide Sequences Studied by Electrochemical and Spectral Methods. <i>Electroanalysis</i> , 2014, 26, 2118-2128.	1.5	9
79	Novel biophysical determination of miRNAs related to prostate and head and neck cancers. <i>European Biophysics Journal</i> , 2015, 44, 131-138.	1.2	9
80	Caesium fluoride-induced changes in the c.d. spectra of synthetic DNA fragments. <i>International Journal of Biological Macromolecules</i> , 1991, 13, 9-13.	3.6	8
81	Conformational changes in the region of the ends of the DNA molecule at premelting temperatures. <i>FEBS Letters</i> , 1970, 7, 38-40.	1.3	7
82	N.m.r. and c.d. studies of the DNA fragments d(TATATATA) and d(TATATA) in solution. <i>International Journal of Biological Macromolecules</i> , 1989, 11, 273-277.	3.6	7
83	Circular Dichroism Studies of Salt- and Alcohol- Induced Conformational Changes in Cyanophage S-2L DNA Which Contains Amino ² Adenine Instead of Adenine. <i>Journal of Biomolecular Structure and Dynamics</i> , 1991, 9, 81-85.	2.0	7
84	Role of loops in the guanine quadruplex formation by DNA/RNA hybrid analogs of G4T4G4. <i>International Journal of Biological Macromolecules</i> , 2008, 43, 463-467.	3.6	7
85	RNA-Like conformational properties of a synthetic DNA poly(dA-dU).poly(dA-dU). <i>Biochemical and Biophysical Research Communications</i> , 1985, 132, 95-99.	1.0	6
86	Different behavior of the octadeoxynucleotides d(A-T) and d(T-A) ₄ at high concentrations of cesium fluoride ₄ . <i>Biochemical and Biophysical Research Communications</i> , 1986, 139, 1158-1163.	1.0	6
87	Structures of poly(dA-dT,ip ⁵ dU) containing various small amounts of the antiherpetic 5-isopropyl- ² -deoxyuridine. <i>Biochemical and Biophysical Research Communications</i> , 1992, 185, 96-102.	1.0	6
88	Towards a better understanding of the unusual conformations of the alternating guanine-adenine repeat strands of DNA. <i>Biopolymers</i> , 2007, 85, 19-27.	1.2	6
89	Guanine Substitutions Prevent Conformational Switch from Antiparallel to Parallel G-Quadruplex. <i>Chemistry - A European Journal</i> , 2019, 25, 13422-13428.	1.7	6
90	Probing Conformational Isomerizations of Double-Stranded Poly(dA-dT) by a Substitution of Minor Amounts of the Thymine Methyls with Bulky Hydrophobic Isopropyl Groups. <i>Journal of Biomolecular Structure and Dynamics</i> , 1994, 11, 731-739.	2.0	5

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91	Thermal melting of poly(dA-dT).poly(dA-dT) in methanol-water solutions. Biochemical and Biophysical Research Communications, 1984, 123, 831-835.	1.0	4
92	Salt-induced isomerization of a synthetic RNA poly[r(A-U)]. Biopolymers, 1988, 27, 351-354.	1.2	4
93	Conformations of DNA strands containing GAGT, GACA, or GAGC tetranucleotide repeats. Biopolymers, 2007, 87, 218-224.	1.2	4
94	Conformational Isomerizations of Poly(dA-dT) Are Dramatically Influenced by a Substitution of a Minor Amount of Adenine by Purine or Amino2purine. Journal of Biomolecular Structure and Dynamics, 1993, 10, 681-692.	2.0	3
95	Revealing structural peculiarities of homopurine GA repetition stuck by i-motif clip. Nucleic Acids Research, 2021, 49, 11425-11437.	6.5	3
96	Spectroscopic insights into quadruplexes of five-repeat telomere DNA sequences upon G-block damage. Biochimica Et Biophysica Acta - General Subjects, 2017, 1861, 2750-2757.	1.1	2
97	Comparative Electrochemical and Spectroscopic Studies of i-Motif-forming DNA Nonamers. Electroanalysis, 2019, 31, 2081-2093.	1.5	2
98	Diversity of Parallel Guanine Quadruplexes Induced by Guanine Substitutions. International Journal of Molecular Sciences, 2020, 21, 6123.	1.8	1