Michaela Vorlickova

List of Publications by Year
in descending order

98 papers	4,761 citations	172207 29 h-index	102304 66 g-index
102 all docs	102 docs citations	102 times ranked	4485 citing authors

#	ARTICLE	IF	CITATIONS
1	Guanine quadruplexes in the RNA genome of the tick-borne encephalitis virus: their role as a new antiviral target andÂin virus biology. Nucleic Acids Research, 2022, 50, 4574-4600.	6.5	11
2	Revealing structural peculiarities of homopurine GA repetition stuck by i-motif clip. Nucleic Acids Research, 2021, 49, 11425-11437.	6.5	3
3	Gâ€Quadruplex Formation by DNA Sequences Deficient in Guanines: Two Tetrad Parallel Quadruplexes Do Not Fold Intramolecularly. Chemistry - A European Journal, 2021, 27, 12115-12125.	1.7	15
4	Does Raman spectroscopy recognize different Gâ€quadruplex arrangements?. Journal of Raman Spectroscopy, 2020, 51, 301-312.	1.2	13
5	Diversity of Parallel Guanine Quadruplexes Induced by Guanine Substitutions. International Journal of Molecular Sciences, 2020, 21, 6123.	1.8	1
6	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. Biochimica Et Biophysica Acta - General Subjects, 2020, 1864, 129651.	1.1	19
7	Stability of Two-Quartet G-Quadruplexes and Their Dimers in Atomistic Simulations. Journal of Chemical Theory and Computation, 2020, 16, 3447-3463.	2.3	16
8	Guanine Substitutions Prevent Conformational Switch from Antiparallel to Parallel Gâ€Quadruplex. Chemistry - A European Journal, 2019, 25, 13422-13428.	1.7	6
9	Comparative Electrochemical and Spectroscopic Studies of Iâ€Motifâ€forming DNA Nonamers. Electroanalysis, 2019, 31, 2081-2093.	1.5	2
10	CD Study of the G-Quadruplex Conformation. Methods in Molecular Biology, 2019, 2035, 25-44.	0.4	27
11	Systematic investigation of sequence requirements for DNA i-motif formation. Nucleic Acids Research, 2019, 47, 2177-2189.	6.5	61
12	i-Motif of cytosine-rich human telomere DNA fragments containing natural base lesions. Nucleic Acids Research, 2018, 46, 1624-1634.	6.5	25
13	Clustered abasic lesions profoundly change the structure and stability of human telomeric G-quadruplexes. Nucleic Acids Research, 2017, 45, 4294-4305.	6.5	24
14	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
15	G-quadruplex formation in the Oct4 promoter positively regulates Oct4 expression. Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms, 2017, 1860, 175-183.	0.9	29
16	Wild-type p53 binds to <i>MYC</i> promoter G-quadruplex. Bioscience Reports, 2016, 36, .	1.1	31
17	p53 binds human telomeric G-quadruplex inÂvitro. Biochimie, 2016, 128-129, 83-91.	1.3	14
18	G-quadruplex-based structural transitions in 15-mer DNA oligonucleotides varying in lengths of internal oligo(dG) stretches detected by voltammetric techniques. Analytical and Bioanalytical Chemistry, 2015, 407, 5817-5826.	1.9	15

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19	Novel biophysical determination of miRNAs related to prostate and head and neck cancers. European Biophysics Journal, 2015, 44, 131-138.	1.2	9
20	Diverse effects of naturally occurring base lesions on the structure and stability of the human telomere DNA quadruplex. Biochimie, 2015, 118, 15-25.	1.3	15
21	Unique C. elegans telomeric overhang structures reveal the evolutionarily conserved properties of telomeric DNA. Nucleic Acids Research, 2015, 43, 4733-4745.	6.5	24
22	Loss of loop adenines alters human telomere d[AG3(TTAG3)3] quadruplex folding. Nucleic Acids Research, 2014, 42, 14031-14041.	6.5	28
23	Guanine quadruplexes are formed by specific regions of human transposable elements. BMC Genomics, 2014, 15, 1032.	1.2	31
24	Stability of human telomere quadruplexes at high DNA concentrations. Biopolymers, 2014, 101, 428-438.	1.2	15
25	Quadruplex-forming sequences occupy discrete regions inside plant LTR retrotransposons. Nucleic Acids Research, 2014, 42, 968-978.	6.5	30
26	Dynamic Structures of DNA Heptamers with Different Central Trinucleotide Sequences Studied by Electrochemical and Spectral Methods. Electroanalysis, 2014, 26, 2118-2128.	1.5	9
27	Crystal structures of B-DNA dodecamer containing the epigenetic modifications 5-hydroxymethylcytosine or 5-methylcytosine. Nucleic Acids Research, 2013, 41, 9891-9900.	6.5	66
28	Polymorphism of human telomeric quadruplex structure controlled by DNA concentration: a Raman study. Nucleic Acids Research, 2013, 41, 1005-1016.	6.5	67
29	Circular dichroism and guanine quadruplexes. Methods, 2012, 57, 64-75.	1.9	351
30	Elongated Thrombin Binding Aptamer: A Gâ€Quadruplex Cationâ€Sensitive Conformational Switch. Chemistry - A European Journal, 2012, 18, 4392-4400.	1.7	25
31	Circular Dichroism Spectroscopy of DNA: From Duplexes to Quadruplexes. Chirality, 2012, 24, 691-698.	1.3	248
32	8â€Oxoguanine in a quadruplex of the human telomere DNA sequence. FEBS Journal, 2012, 279, 29-39.	2.2	66
33	CGG repeats associated with fragile X chromosome form left-handed Z-DNA structure. Biopolymers, 2011, 95, 174-181.	1.2	27
34	Quadruplexes of human telomere DNA analogs designed to contain G:A:G:A, G:G:A:A, and A:A:A:A tetrads. Biopolymers, 2010, 93, 880-886.	1.2	13
35	Quadruplexes of human telomere dG3(TTAG3)3 sequences containing guanine abasic sites. Biochemical and Biophysical Research Communications, 2010, 399, 203-208.	1.0	39
36	Arrangements of human telomere DNA quadruplex in physiologically relevant K + solutions. Nucleic Acids Research, 2009, 37, 6625-6634.	6.5	181

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37	Circular dichroism and conformational polymorphism of DNA. Nucleic Acids Research, 2009, 37, 1713-1725.	6.5	1,415
38	Substitution of adenine for guanine in the quadruplex-forming human telomere DNA sequence G3(T2AG3)3. Biochimie, 2009, 91, 171-179.	1.3	38
39	Quadruplex-forming properties of FRAXA (CGG) repeats interrupted by (AGG) triplets. Biochimie, 2009, 91, 416-422.	1.3	19
40	Guanine quadruplex formation by RNA/DNA hybrid analogs of <i>Oxytricha</i> telomere G₄T₄G₄ fragment. Biopolymers, 2008, 89, 797-806.	1.2	10
41	Role of loops in the guanine quadruplex formation by DNA/RNA hybrid analogs of G4T4G4. International Journal of Biological Macromolecules, 2008, 43, 463-467.	3.6	7
42	Oligo(dT) is not a correct native PAGE marker for single-stranded DNA. Biochemical and Biophysical Research Communications, 2007, 353, 776-779.	1.0	22
43	Towards a better understanding of the unusual conformations of the alternating guanineâ€“adenine repeat strands of DNA. Biopolymers, 2007, 85, 19-27.	1.2	6
44	Intramolecular and intermolecular guanine quadruplexes of DNA in aqueous salt and ethanol solutions. Biopolymers, 2007, 86, 1-10.	1.2	47
45	Conformations of DNA strands containing GAGT, GACA, or GAGC tetranucleotide repeats. Biopolymers, 2007, 87, 218-224.	1.2	4
46	The thrombin binding aptamer GGTTGGTGTGGTTGG forms a bimolecular guanine tetraplex. Biochemical and Biophysical Research Communications, 2006, 344, 50-54.	1.0	48
47	Ethanol is a better inducer of DNA guanine tetraplexes than potassium cations. Biopolymers, 2006, 82, 253-260.	1.2	44
48	Molecular and crystal structures of (+)-homochelidonine, (+)-chelamine, and (âˆ’)-norchelidonine. Journal of Molecular Structure, 2005, 734, 1-6.	1.8	18
49	Guanine tetraplex topology of human telomere DNA is governed by the number of (TTAGGG) repeats. Nucleic Acids Research, 2005, 33, 5851-5860.	6.5	154
50	Conformational properties of DNA containing (CCA)n and (TGG)n trinucleotide repeats. International Journal of Biological Macromolecules, 2005, 36, 23-32.	3.6	9
51	The guanine-rich fragile X chromosome repeats are reluctant to form tetraplexes. Nucleic Acids Research, 2004, 32, 298-306.	6.5	33
52	DNA homoduplexes containing no pyrimidine nucleotide. European Biophysics Journal, 2003, 32, 154-158.	1.2	9
53	Circular dichroism spectroscopy of conformers of (guanine + adenine) repeat strands of DNA. Chirality, 2003, 15, 584-592.	1.3	26
54	Circular dichroism spectroscopy reveals invariant conformation of guanine runs in DNA. Biopolymers, 2002, 67, 275-277.	1.2	107

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55	A-like guanine-guanine stacking in the aqueous DNA duplex of d(GGGGCCCC)11Edited by I. Tinoco. Journal of Molecular Biology, 2001, 307, 513-524.	2.0	60
56	Conformational properties of DNA fragments containing GAC trinucleotide repeats associated with skeletal displasias. European Biophysics Journal, 2001, 30, 179-185.	1.2	23
57	Conserved guanine-guanine stacking in tetraplex and duplex DNA. European Biophysics Journal, 2001, 30, 555-558.	1.2	32
58	Dimethylsulfoxide-stabilized conformer of guanine-adenine repeat strand of DNA. Biopolymers, 2001, 62, 81-84.	1.2	14
59	A Nuclease Hypersensitive Element in the Human c-myc Promoter Adopts Several Distinct i-Tetraplex Structures. Biochemical and Biophysical Research Communications, 2000, 278, 158-166.	1.0	136
60	Dimerization of the guanine-adenine repeat strands of DNA. Nucleic Acids Research, 1999, 27, 581-586.	6.5	34
61	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
62	Conformational properties of DNA strands containing guanine-adenine and thymine-adenine repeats. Nucleic Acids Research, 1998, 26, 1509-1514.	6.5	31
63	Conformational properties of DNA dodecamers containing four tandem repeats of the CNG triplets. Nucleic Acids Research, 1998, 26, 2679-2685.	6.5	17
64	The Unusual X-Form DNA in Oligodeoxynucleotides: Dependence of Stability on the Base Sequence and Length. Journal of Biomolecular Structure and Dynamics, 1996, 13, 999-1006.	2.0	18
65	Divalent Zinc Cations Induce the Formation of Two Distinct Homoduplexes of a d(GA)20 DNA Sequence. Biochemistry, 1995, 34, 14408-14415.	1.2	27
66	UV Light-Induced Crosslinking of the Strands of Poly(dA-dT) and Related Alternating Purine-Pyrimidine DNAs. Journal of Biomolecular Structure and Dynamics, 1994, 11, 1225-1236.	2.0	9
67	Probing Conformational Isomerizations of Double-Stranded Poly(dA-dT) by a Substitution of Minor Amounts of the Thymine Methyls with Bulky Hydrophobic Isopropyl Groups. Journal of Biomolecular Structure and Dynamics, 1994, 11, 731-739.	2.0	5
68	Vacuum-UV CD spectrum of the X-form of double-stranded poly(dA-dT). Biopolymers, 1994, 34, 299-301.	1.2	10
69	Thymine Methyl Groups Stabilize the Putative A-Form of the Synthetic DNA Poly(amino2dA-dT). Biochemistry, 1994, 33, 3801-3806.	1.2	17
70	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
71	Structures of poly(dA-dT,ip5dU) containing various small amounts of the antiherpetic 5-isopropyl-2â€²-deoxyuridine. Biochemical and Biophysical Research Communications, 1992, 185, 96-102.	1.0	6
72	Caesium fluoride-induced changes in the c.d. spectra of synthetic DNA fragments. International Journal of Biological Macromolecules, 1991, 13, 9-13.	3.6	8

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73	Destabilization of the duplex and the high-salt Z-form of poly(dG-methyl5dC) by substitution of ethyl for the 5-methyl group. International Journal of Biological Macromolecules, 1991, 13, 329-336.	3.6	18
74	Circular Dichroism Studies of Salt- and Alcohol- Induced Conformational Changes in Cyanophage S-2L DNA Which Contains Amino2Adenine Instead of Adenine. Journal of Biomolecular Structure and Dynamics, 1991, 9, 81-85.	2.0	7
75	Alkyl Substituent in Place of the Thymine Methyl Group Controls the A-X Conformational Bimorphism in Poly(dA-dT). Journal of Biomolecular Structure and Dynamics, 1991, 9, 571-578.	2.0	13
76	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. International Journal of Biological Macromolecules, 1990, 12, 282-288.	3.6	18
77	Divalent Cations are not Required for the Stability of the Low-Salt Z-DNA Conformation in Poly(dG-ethyl⁵dC). Journal of Biomolecular Structure and Dynamics, 1989, 7, 329-334.	2.0	9
78	N.m.r. and c.d. studies of the DNA fragments d(TATATATA) and d(TATATA) in solution. International Journal of Biological Macromolecules, 1989, 11, 273-277.	3.6	7
79	Salt-induced isomerization of a synthetic RNA poly[r(A-U)]. Biopolymers, 1988, 27, 351-354.	1.2	4
80	Poly(amino2dA-dT) Isomerizes into the Unusual X-DNA Double Helix at Physiological Conditions Inducing Z-DNA in Poly(dG-methyl5dC). Journal of Biomolecular Structure and Dynamics, 1988, 6, 503-510.	2.0	23
81	Conformation of the synthetic DNA poly(amino2dA-dT) duplex in high-salt and aqueous alcohol solutions. Nucleic Acids Research, 1988, 16, 279-289.	6.5	33
82	Aliphatic substituents in place of thymine methyl promote zig-zag character of the poly(dA-dT)Â·poly(dA-dT) backbone. International Journal of Biological Macromolecules, 1987, 9, 131-136.	3.6	15
83	Different behavior of the octadeoxynucleotides d(A-T) and d(T-A)4 at high concentrations of cesium fluoride4. Biochemical and Biophysical Research Communications, 1986, 139, 1158-1163.	1.0	6
84	Conformational Variability of Poly(dA-dT)Â·Poly(dA-dT) and Some Other Deoxyribonucleic Acids Includes a Novel Type of Double Helix. Journal of Biomolecular Structure and Dynamics, 1985, 3, 67-83.	2.0	79
85	Conformations of alternating purine-pyrimidine DNAs in high-CsF solutions and their reversal by dipyrandium, ethidium and high temperature. Biochimica Et Biophysica Acta - General Subjects, 1985, 838, 244-251.	1.1	13
86	RNA-Like conformational properties of a synthetic DNA poly(dA-dU).poly(dA-dU). Biochemical and Biophysical Research Communications, 1985, 132, 95-99.	1.0	6
87	Cooperative changes in the chiroptical properties of DNA induced by methanol. Biopolymers, 1984, 23, 1-4.	1.2	36
88	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
89	Conformational transitions of a synthetic DNA poly(dA-dU). poly(dA-dU) in concentrated solutions of caesium fluoride. International Journal of Biological Macromolecules, 1984, 6, 77-80.	3.6	14
90	Salt-induced conformational transition of poly[d(A-T)]Â·poly[d(A-T)]. Journal of Molecular Biology, 1983, 166, 85-92.	2.0	92

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91	Conformational transitions of poly(dA-dT).poly(dA-dT) in ethanolic solutions. Nucleic Acids Research, 1982, 10, 6969-6979.	6.5	59
92	A Z-like form of poly(dA-dC).poly(dC-bT) in sotation?. Nucleic Acids Research, 1982, 10, 1071-1080.	6.5	91
93	Strance double helix of poly(dA-dT) in high-salt solution. Biochemical and Biophysical Research Communications, 1981, 99, 1257-1264.	1.0	30
94	Salt-induced conformational changes of poly(dA-dT). Nucleic Acids Research, 1980, 8, 3965-3974.	6.5	54
95	Changes in properties of DNA caused by gamma and ultraviolet radiation. Dependence of conformational changes on the chemical nature of the damage. Nucleic Acids and Protein Synthesis, 1978, 517, 308-318.	1.7	19
96	A Study of Changes in DNA Conformation Caused by Ionizing and Ultra-violet Radiation by Means of Pulse Polarography and Circular Dichroism. International Journal of Radiation Biology and Related Studies in Physics, Chemistry, and Medicine, 1974, 26, 363-372.	1.0	24
97	Estimation of submicrogram quantities of proteins in nucleic acids samples by pulse-polarographic technique. Nucleic Acids and Protein Synthesis, 1973, 331, 276-282.	1.7	16
98	Conformational changes in the region of the ends of the DNA molecule at premelting temperatures. FEBS Letters, 1970, 7, 38-40.	1.3	7