Sik Lok Lam

List of Publications by Year
in descending order

48 papers	644 citations	567281 15 h-index	642732 23 g-index
48 all docs	48 docs citations	48 times ranked	572 citing authors

#	Article	IF	Citations
1	NMR identification of left-handed polyproline type II helices. Biopolymers, 2003, 69, 270-281.	2.4	62
2	Effect of 1â€methyladenine on doubleâ€helical DNA structures. FEBS Letters, 2008, 582, 1629-1633.	2.8	45
3	Use of chemical shifts for structural studies of nucleic acids. Progress in Nuclear Magnetic Resonance Spectroscopy, 2010, 56, 289-310.	7.5	45
4	Structural roles of CTG repeats in slippage expansion during DNA replication. Nucleic Acids Research, 2005, 33, 1604-1617.	14.5	41
5	Minidumbbell: A New Form of Native DNA Structure. Journal of the American Chemical Society, 2016, 138, 12534-12540.	13.7	28
6	The origin of genetic instability in CCTG repeats. Nucleic Acids Research, 2011, 39, 6260-6268.	14.5	26
7	Effect of 1â€methyladenine on thermodynamic stabilities of doubleâ€helical DNA structures. FEBS Letters, 2009, 583, 1548-1553.	2.8	23
8	DSHIFT: a web server for predicting DNA chemical shifts. Nucleic Acids Research, 2007, 35, W713-W717.	14.5	22
9	Sequence-specific local structural variations in solution structures of d(CGXXâ€²CG)2 and d(CAXXâ€²TG)2 self-complementary deoxyribonucleic acids. Journal of Molecular Biology, 1997, 266, 745-760.	4.2	19
10	Unusual structures of TTTA repeats in icaC gene of Staphylococcus aureus. FEBS Letters, 2015, 589, 1296-1300.	2.8	19
11	Preferential base pairing modes of TÂ·T mismatches. FEBS Letters, 2011, 585, 3953-3958.	2.8	17
12	New insights into the genetic instability in CCTG repeats. FEBS Letters, 2015, 589, 3058-3063.	2.8	17
13	CAG RNAs induce DNA damage and apoptosis by silencing NUDT16 expression in polyglutamine degeneration. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	17
14	Random coil proton chemical shifts of deoxyribonucleic acids. Journal of Biomolecular NMR, 2002, 24, 329-337.	2.8	16
15	Crosslinking reactions of 4-amino-6-oxo-2-vinylpyrimidine with guanine derivatives and structural analysis of the adducts. Nucleic Acids Research, 2015, 43, 7717-7730.	14.5	16
16	Random coil phosphorus chemical shift of deoxyribonucleic acids. Journal of Magnetic Resonance, 2004, 171, 193-200.	2.1	15
17	NMR investigation of DNA primer-template models: Structural insights into dislocation mutagenesis in DNA replication. FEBS Letters, 2006, 580, 6496-6500.	2.8	15
18	Nuclear Magnetic Resonance Investigation of Primerâ^'Template Models: Formation of a Pyrimidine Bulge upon Misincorporation. Biochemistry, 2008, 47, 4469-4476.	2.5	15

#	Article	IF	Citations
19	NMR Investigation of Primer-Template Models:â€‰ Structural Effect of Sequence Downstream of a Thymine Template on Mutagenesis in DNA Replication. Biochemistry, 2007, 46, 9292-9300.	2.5	12
20	Low Temperature Solution Structures and Base Pair Stacking of Double Helical d(CGTACG)2. Journal of Biomolecular Structure and Dynamics, 2002, 19, 907-917.	3.5	11
21	Minidumbbell structures formed by ATTCT pentanucleotide repeats in spinocerebellar ataxia typeÂ10. Nucleic Acids Research, 2020, 48, 7557-7568.	14.5	11
22	NMR Investigation of DNA Primer-Template Models: Guanine Templates Are Less Prone to Strand Slippage upon Misincorporation. Biochemistry, 2009, 48, 11478-11486.	2.5	10
23	The competing mini-dumbbell mechanism: new insights into CCTG repeat expansion. Signal Transduction and Targeted Therapy, 2016, 1, 16028.	17.1	10
24	Unusual structures of CCTG repeats and their participation in repeat expansion. Biomolecular Concepts, 2016, 7, 331-340.	2.2	10
25	Achilles Tendon Xanthomas: Fat-Water Separation at Baseline and after Treatment. Radiology, 2017, 285, 876-884.	7.3	10
26	An Extraordinarily Stable DNA Minidumbbell. Journal of Physical Chemistry Letters, 2017, 8, 3478-3481.	4.6	9
27	Random coil carbon chemical shifts of deoxyribonucleic acids. Journal of Magnetic Resonance, 2004, 166, 11-18.	2.1	8
28	Proton chemical shift prediction of AÂ·A mismatches in B-DNA duplexes. Journal of Magnetic Resonance, 2007, 187, 105-111.	2.1	8
29	Sequence Context Effect on Strand Slippage in Natural DNA Primerâ€“Templates. Journal of Physical Chemistry B, 2012, 116, 1999-2007.	2.6	8
30	Rational design of a reversible Mg²⁺/EDTA-controlled molecular switch based on a DNA minidumbbell. Chemical Communications, 2020, 56, 10127-10130.	4.1	8
31	Effect of hyperoxidized guanine on DNA primerâ€“template structures: Spiroiminodihydantoin leads to strand slippage. FEBS Letters, 2008, 582, 4169-4175.	2.8	7
32	Effects of Adenine Methylation on the Structure and Thermodynamic Stability of a DNA Minidumbbell. International Journal of Molecular Sciences, 2021, 22, 3633.	4.1	7
33	NMR proton chemical shift prediction of TÂ·T mismatches in B-DNA duplexes. Journal of Magnetic Resonance, 2013, 234, 184-189.	2.1	6
34	Formation of a DNA Mini-Dumbbell with a Quasi-Type II Loop. Journal of Physical Chemistry B, 2017, 121, 2554-2560.	2.6	6
35	Effect of an Abasic Site on Strand Slippage in DNA Primer-Templates. Journal of Physical Chemistry B, 2012, 116, 14781-14787.	2.6	5
36	NMR proton chemical shift prediction of CÂ·C mismatches in B-DNA. Journal of Magnetic Resonance, 2015, 252, 87-93.	2.1	5

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37	Unprecedented hydrophobic stabilizations from a reverse wobble TÂ·T mispair in DNA minidumbbell. Journal of Biomolecular Structure and Dynamics, 2020, 38, 1946-1953.	3.5	5
38	High-Resolution Structures of DNA Minidumbbells Comprising Type II Tetraloops with a Purine Minor Groove Residue. Journal of Physical Chemistry B, 2020, 124, 5131-5138.	2.6	4
39	NMR solution structures of d(GGCCTG)n repeats associated with spinocerebellar ataxia type 36. International Journal of Biological Macromolecules, 2022, 201, 607-615.	7.5	4
40	Determination of Backbone Torsion Angle Ïµ of DNA Duplexes in Solution from3JC4â€²Pand3JH3â€²P, Using Heteronuclear Single-Quantum-Coherence Spectroscopy. Journal of Magnetic Resonance Series B, 1996, 113, 59-64.	1.6	3
41	The J-coupling Restrained Molecular Mechanics (JrMM) Protocol - An Efficient Alternative for Deriving DNA Endocyclic Torsion Angle Constraints Part II: Experimental Application of the JrMM Protocol. Journal of Biomolecular Structure and Dynamics, 1996, 13, 815-825.	3.5	3
42	Cobalt(<scp>ii</scp>) amido complexes derived from a monodentate arylamido ligand featuring a highly electron-withdrawing C₆F₅ substituent. Dalton Transactions, 2015, 44, 17950-17959.	3.3	3
43	Sequence Effect on the Formation of DNA Minidumbbells. Journal of Physical Chemistry B, 2017, 121, 10338-10343.	2.6	3
44	The J-coupling Restrained Molecular Mechanics (JrMM) Protocol - An Efficient Alternative for Deriving DNA Endocyclic Torsion Angle Constraints Part I: Correlation of Endocyclic Torsion Angles and Vicinal Torsion Angle Ï†_{1â€²2â€²}. Journal of Biomolecular Structure and Dynamics, 1996, 13, 803-814.	3.5	2
45	5â€²Methylcytosine Substantially Enhances the Thermal Stability of DNA Minidumbbells. Chemistry - A European Journal, 2021, 27, 6740-6747.	3.3	2
46	Conformational flexibility in the <scp>RNA</scp> stemâ€loop structures formed by <scp>CAG</scp> repeats. FEBS Letters, 2017, 591, 1752-1760.	2.8	2
47	A pH and Mg²⁺-Responsive Molecular Switch Based on a Stable DNA Minidumbbell Bearing 5â€² and 3â€²-Overhangs. ACS Omega, 2021, 6, 28263-28269.	3.5	2
48	A purine and a backbone discontinuous site alter the structure and thermal stability of DNA minidumbbells containing two pentaloops. FEBS Letters, 2022, 596, 826-840.	2.8	2