List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Physiological-Temperature Distance Measurement in Nucleic Acid using Triarylmethyl-Based Spin Labels and Pulsed Dipolar EPR Spectroscopy. Journal of the American Chemical Society, 2014, 136, 9874-9877.	6.6	151
2	Triarylmethyl Labels: Toward Improving the Accuracy of EPR Nanoscale Distance Measurements in DNAs. Journal of Physical Chemistry B, 2015, 119, 13641-13648.	1.2	63
3	Nucleotide Modifications Decrease Innate Immune Response Induced by Synthetic Analogs of snRNAs and snoRNAs. Genes, 2018, 9, 531.	1.0	45
4	Complementary-addressed site-directed spin labeling of long natural RNAs. Nucleic Acids Research, 2016, 44, 7935-7943.	6.5	38
5	Apoptosis-mediated endothelial toxicity but not direct calcification or functional changes in anti-calcification proteins defines pathogenic effects of calcium phosphate bions. Scientific Reports, 2016, 6, 27255.	1.6	37
6	Molecular Dynamics Simulation of Polarizable Gold Nanoparticles Interacting with Sodium Citrate. Journal of Chemical Theory and Computation, 2019, 15, 1278-1292.	2.3	33
7	A Versatile Approach to Attachment of Triarylmethyl Labels to DNA for Nanoscale Structural EPR Studies at Physiological Temperatures. Journal of Physical Chemistry B, 2018, 122, 137-143.	1.2	32
8	Evaluation of the Gibbs Free Energy Changes and Melting Temperatures of DNA/DNA Duplexes Using Hybridization Enthalpy Calculated by Molecular Dynamics Simulation. Journal of Physical Chemistry B, 2015, 119, 15221-15234.	1.2	30
9	Hybridization of the Bridged Oligonucleotides with DNA: Thermodynamic and Kinetic Studies. Journal of Biomolecular Structure and Dynamics, 2006, 23, 567-579.	2.0	29
10	Efficiency of exonucleolytic action of apurinic/apyrimidinic endonuclease 1 towards matched and mismatched dNMP at the 3′ terminus of different oligomeric DNA structures correlates with thermal stability of DNA duplexes. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2006, 1764, 699-706.	1.1	26
11	Diastereomers of a mono-substituted phosphoryl guanidine trideoxyribonucleotide: Isolation and properties. Biochemical and Biophysical Research Communications, 2019, 513, 807-811.	1.0	25
12	Oxidative damage to epigenetically methylated sites affects DNA stability, dynamics and enzymatic demethylation. Nucleic Acids Research, 2018, 46, 10827-10839.	6.5	22
13	DNA complexes with human apurinic/apyrimidinic endonuclease 1: structural insights revealed by pulsed dipolar EPR with orthogonal spin labeling. Nucleic Acids Research, 2019, 47, 7767-7780.	6.5	20
14	Allele-Specific PCR for KRAS Mutation Detection Using Phosphoryl Guanidine Modified Primers. Diagnostics, 2020, 10, 872.	1.3	19
15	Thermodynamic parameters for calculating the stability of complexes of bridged oligonucleotides. Doklady Biochemistry and Biophysics, 2006, 409, 211-215.	0.3	17
16	2′â€Bispyreneâ€Modified 2′â€ <i>O</i> â€Methyl RNA Probes as Useful Tools for the Detection of RNA: Syr Fluorescent Properties, and Duplex Stability. ChemBioChem, 2014, 15, 1939-1946.	thesis, 1.3	16
17	The Influence of the Nonâ€Nucleotide Insert on the Hybridization Properties of Oligonucleotides. Nucleosides, Nucleotides and Nucleic Acids, 2004, 23, 1065-1071.	0.4	15
18	Physicochemical Properties of the Phosphoryl Guanidine Oligodeoxyribonucleotide Analogs. Russian Journal of Bioorganic Chemistry, 2019, 45, 709-718.	0.3	15

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19	The role of Asn-212 in the catalytic mechanism of human endonuclease APE1: Stopped-flow kinetic study of incision activity on a natural AP site and a tetrahydrofuran analogue. DNA Repair, 2014, 21, 43-54.	1.3	14
20	QCM-Based Measurement of Bond Rupture Forces in DNA Double Helices for Complementarity Sensing. Langmuir, 2014, 30, 3795-3801.	1.6	14
21	New oligonucleotide analogues based on morpholine subunits joined by oxalyl diamide tether. Bioorganic Chemistry, 2007, 35, 258-275.	2.0	12
22	Global DNA dynamics of 8-oxoguanine repair by human OGG1 revealed by stopped-flow kinetics and molecular dynamics simulation. Molecular BioSystems, 2017, 13, 1954-1966.	2.9	12
23	Application of W-band <sup>19</sup> F electron nuclear double resonance (ENDOR) spectroscopy to distance measurement using a trityl spin probe and a fluorine label. Physical Chemistry Chemical Physics, 2022, 24, 5982-6001.	1.3	11
24	Considering the oligonucleotide secondary structures in thermodynamic and kinetic analysis of DNA duplex formation. Biophysics (Russian Federation), 2012, 57, 19-34.	0.2	10
25	Study of a DNA Duplex by Nuclear Magnetic Resonance and Molecular Dynamics Simulations. Validation of Pulsed Dipolar Electron Paramagnetic Resonance Distance Measurements Using Triarylmethyl-Based Spin Labels. Journal of Physical Chemistry B, 2016, 120, 5125-5133.	1.2	10
26	Rational design and studies of excimer forming novel dual probes to target RNA. Bioorganic and Medicinal Chemistry, 2017, 25, 2244-2250.	1.4	10
27	Thermodynamic description of oligonucleotide self-association in DNA concatamer structures. Biophysics (Russian Federation), 2009, 54, 280-290.	0.2	9
28	A new approach to precise thermodynamic characterization of hybridization properties of modified oligonucleotides: Comparative studies of deoxyribo- and glycine morpholine pentaadenines. Biophysical Chemistry, 2018, 234, 24-33.	1.5	9
29	Effects of Phosphoryl Guanidine Modification of Phosphate Residues on the Structure and Hybridization of Oligodeoxyribonucleotides. Journal of Physical Chemistry B, 2021, 125, 2841-2855.	1.2	9
30	Calculation of Energy for RNA/RNA and DNA/RNA Duplex Formation by Molecular Dynamics Simulation. Molecular Biology, 2021, 55, 927-940.	0.4	9
31	Artificial Anti-HIV-1 Immunogen Comprising Epitopes of Broadly Neutralizing Antibodies 2F5, 10E8, and a Peptide Mimic of VRC01 Discontinuous Epitope. Vaccines, 2019, 7, 83.	2.1	8
32	3′-MODIFIED OLIGO(2′-O-METHYLRIBONUCLEOTIDES) AS IMPROVED PROBES FOR HYBRIDIZATION WITH R Nucleosides, Nucleotides and Nucleic Acids, 2005, 24, 527-531.	NA. 0:4	7
33	Structural basis for the recognition and processing of DNA containing bulky lesions by the mammalian nucleotide excision repair system. DNA Repair, 2018, 61, 86-98.	1.3	7
34	Apurinic/apyrimidinic endonuclease Apn1 from Saccharomyces cerevisiae is recruited to the nucleotide incision repair pathway: Kinetic and structural features. Biochimie, 2018, 152, 53-62.	1.3	7
35	DNA Binding to Gold Nanoparticles through the Prism of Molecular Selection: Sequence–Affinity Relation. Langmuir, 2019, 35, 7916-7928	1.6	7
36	Strict conformational demands of RNA cleavage in bulge-loops created by peptidyl-oligonucleotide conjugates. Nucleic Acids Research, 2020, 48, 10662-10679.	6.5	7

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37	Terminal Mono- and Bis-Conjugates of Oligonucleotides with Closo-Dodecaborate: Synthesis and Physico-Chemical Properties. International Journal of Molecular Sciences, 2021, 22, 182.	1.8	7
38	Towards an understanding of crystallization from solution. DFT studies of multi-component serotonin crystals. Computational and Theoretical Chemistry, 2016, 1088, 52-61.	1.1	6
39	Search for oligonucleotides selectively binding oncogenic miR-21. Russian Journal of Bioorganic Chemistry, 2017, 43, 29-37.	0.3	6
40	QCM-based rupture force measurement as a tool to study DNA dehybridization and duplex stability. Analytical and Bioanalytical Chemistry, 2017, 409, 891-901.	1.9	6
41	Modified Oligonucleotides for Guiding RNA Cleavage Using Bacterial RNase P. Molecular Biology, 2018, 52, 905-912.	0.4	6
42	Structure and Hybridization Properties of Glycine Morpholine Oligomers in Complexes with DNA and RNA: Experimental and Molecular Dynamics Studies. Journal of Physical Chemistry B, 2019, 123, 10571-10581.	1.2	6
43	Multipyrene tandem probes for detection of C677T polymorphism in MTHFR gene. Nucleic Acids Symposium Series, 2009, 53, 143-144.	0.3	5
44	QCM-based rapid analysis of DNA. Sensing and Bio-Sensing Research, 2015, 4, 11-15.	2.2	5
45	Processing of the abasic sites clustered with the benzo[a]pyrene adducts by the base excision repair enzymes. DNA Repair, 2017, 50, 43-53.	1.3	5
46	Effect of laser UV radiation on the eye scleral tissue in patients with open-angle glaucoma. Quantum Electronics, 2018, 48, 481-486.	0.3	4
47	A Comparative Study of the Hybridization of Phosphoryl Guanidine Oligonucleotides with DNA and RNA. Russian Journal of Bioorganic Chemistry, 2021, 47, 461-468.	0.3	4
48	Triazinylamidophosphate Oligonucleotides: Synthesis and Study of Their Interaction with Cells and DNA-Binding Proteins. Russian Journal of Bioorganic Chemistry, 2021, 47, 719-733.	0.3	4
49	The role of His-83 of yeast apurinic/apyrimidinic endonuclease Apn1 in catalytic incision of abasic sites in DNA. Biochimica Et Biophysica Acta - General Subjects, 2015, 1850, 1297-1309.	1.1	3
50	Data for isolation and properties analysis of diastereomers of a mono-substituted phosphoryl guanidine trideoxyribonucleotide. Data in Brief, 2019, 25, 104148.	0.5	3
51	Postsynthetic On-Column 2′ Functionalization of RNA by Convenient Versatile Method. International Journal of Molecular Sciences, 2020, 21, 5127.	1.8	3
52	15,16-Epoxy-3,13(16),14-Neoclerodatrien-17,12:18,19-diolide, a new compound from Galatella punctata. Chemistry of Natural Compounds, 2013, 48, 946-949.	0.2	2
53	Effect of the relief on the measurement of bond rupture force with the help of AFM: the dynamics of interaction and optimization of the procedure. Analytical Methods, 2018, 10, 3498-3505.	1.3	2
54	Residue coevolution reveals functionally important intramolecular interactions in formamidopyrimidine-DNA glycosylase. DNA Repair, 2018, 69, 24-33.	1.3	2

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55	Novel Bisimidazole-Containing Peptidomimetic Molecules for Đœetal-Independent RNA Cleavage: Synthesis and Solid-Phase Screening Method. Russian Journal of Bioorganic Chemistry, 2019, 45, 813-824.	0.3	2
56	G-quadruplex 2′-F-modified RNA aptamers targeting hemoglobin: Structure studies and colorimetric assays. Analytical Biochemistry, 2020, 611, 113886.	1.1	2
57	Recognition and removal of clustered DNA lesions via nucleotide excision repair. DNA Repair, 2021, 108, 103225.	1.3	2
58	Nanorings from Concatemeric DNA: Chemical Modification Drives Nanostructure Formation. Journal of Nanoscience and Nanotechnology, 2015, 15, 4170-4177.	0.9	1
59	Features of Determining Thermodynamic Parameters of Formation of Nucleic Acid Complexes Using Thermal Denaturation with Fluorimetric Signal Detection. Russian Journal of Bioorganic Chemistry, 2019, 45, 684-698.	0.3	1
60	Bridged Oligonucleotides with Smoothed Hybridization Properties as a Tool for Analysis of Nucleotide Sequences. Russian Journal of Bioorganic Chemistry, 2019, 45, 677-683.	0.3	1
61	A QCM-based rupture event scanning technique as a simple and reliable approach to study the kinetics of DNA duplex dissociation. Analytical Methods, 2020, 12, 3771-3777.	1.3	1
62	Structure and hybridization properties of phosphoryl guanidine oligonucleotides under crowding conditions. Biochemical and Biophysical Research Communications, 2021, 577, 110-115.	1.0	1
63	The Structural and Immunological Properties of Chimeric Proteins Containing HIV-1 MPER Sites. Acta Naturae, 2019, 11, 56-65.	1.7	1
64	Pairing nanoarchitectonics of oligodeoxyribonucleotides with complex diversity: concatemers and self-limited complexes. RSC Advances, 2022, 12, 6416-6431.	1.7	1
65	Silicon Microchannel Array as a Basis of Biosensor Device. Materials Research Society Symposia Proceedings, 2006, 915, 1.	0.1	0
66	Data on PAGE analysis and MD simulation for the interaction of endonuclease Apn1 from Saccharomyces cerevisiae with DNA substrates containing 5,6-dihydrouracyl and 2-aminopurine. Data in Brief, 2018, 20, 1515-1524.	0.5	0