

Robert B Macgregor

List of Publications by Year in descending order

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37
papers

1,369
citations

361413
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330143
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docs citations

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times ranked

1364
citing authors

#	ARTICLE	IF	CITATIONS
1	The Disease-associated r(GGGGCC) Repeat from the C9orf72 Gene Forms Tract Length-dependent Uni- and Multimolecular RNA G-quadruplex Structures. <i>Journal of Biological Chemistry</i> , 2013, 288, 9860-9866.	3.4	277
2	On the Stability of Double Stranded Nucleic Acids. <i>Journal of the American Chemical Society</i> , 2001, 123, 9254-9259.	13.7	90
3	Frayed Wires: A Thermally Stable Form of DNA with Two Distinct Structural Domains. <i>Biochemistry</i> , 1996, 35, 16638-16645.	2.5	87
4	Volumetric Characterization of Sodium-Induced G-Quadruplex Formation. <i>Journal of the American Chemical Society</i> , 2011, 133, 4518-4526.	13.7	84
5	Quadruplex formation by both G-rich and C-rich DNA strands of the C9orf72 (GGGGCC) ₈ -(GGCCCC) ₈ repeat: effect of CpG methylation. <i>Nucleic Acids Research</i> , 2015, 43, gkv1008.	14.5	61
6	The interactions of nucleic acids at elevated hydrostatic pressure. <i>BBA - Proteins and Proteomics</i> , 2002, 1595, 266-276.	2.1	57
7	Role of Water in Protein-Ligand Interactions: Volumetric Characterization of the Binding of 2'-CMP and 3'-CMP to Ribonuclease A. <i>Journal of Physical Chemistry B</i> , 2000, 104, 390-401.	2.6	55
8	Effect of hydrostatic pressure on nucleic acids. <i>Biopolymers</i> , 1998, 48, 253.	2.4	55
9	Self-Assembly of Frayed Wires and Frayed-Wire Networks: Nanoconstruction with Multistranded DNA. <i>Nano Letters</i> , 2002, 2, 269-274.	9.1	54
10	Pressure dependence of the melting temperature of dA.cntdot.dT polymers. <i>Biochemistry</i> , 1993, 32, 12531-12537.	2.5	48
11	Nucleic acid hydration: a volumetric perspective. <i>Physics of Life Reviews</i> , 2007, 4, 91-115.	2.8	41
12	Formation and structural determinants of multi-stranded guanine-rich DNA complexes. <i>Biophysical Chemistry</i> , 2000, 84, 205-216.	2.8	31
13	Circular Dichroism of DNA Frayed Wires. <i>Biophysical Journal</i> , 1998, 75, 982-989.	0.5	30
14	Helix-Coil Transition of DNA Monitored by Pressure Perturbation Calorimetry. <i>Journal of Physical Chemistry B</i> , 2009, 113, 1738-1742.	2.6	29
15	The effect of hydrostatic pressure on the thermal stability of DNA hairpins. <i>Biophysical Chemistry</i> , 2011, 156, 88-95.	2.8	28
16	Probing the Ionic Atmosphere and Hydration of the c-MYC C₁-Motif. <i>Journal of the American Chemical Society</i> , 2018, 140, 2229-2238.	13.7	28
17	Thermodynamic and spectroscopic investigations of TMPyP4 association with guanine- and cytosine-rich DNA and RNA repeats of C9orf72. <i>Biochemical and Biophysical Research Communications</i> , 2018, 495, 2410-2417.	2.1	27
18	Duplex-tetraplex equilibria in guanine- and cytosine-rich DNA. <i>Biophysical Chemistry</i> , 2020, 267, 106473.	2.8	23

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19	The Activation Volume of a DNA Helix~Coil Transition. <i>Biochemistry</i> , 1996, 35, 11846-11851.	2.5	21
20	Activation Volume of DNA Duplex Formation. <i>Biochemistry</i> , 1997, 36, 6539-6544.	2.5	21
21	Comparison of the Heat- and Pressure-Induced Helix~Coil Transition of Two DNA Copolymers. <i>Journal of Physical Chemistry B</i> , 2005, 109, 15558-15565.	2.6	21
22	Effect of cations on the volume of the helix-coil transition of poly[d(A-T)]. <i>Biochimica Et Biophysica Acta Gene Regulatory Mechanisms</i> , 1995, 1262, 52-58.	2.4	20
23	Chain length and oligonucleotide stability at high pressure. <i>Biopolymers</i> , 1998, 38, 321-328.	2.4	20
24	A study of the interactions that stabilize DNA frayed wires. <i>Biophysical Chemistry</i> , 2010, 147, 123-129.	2.8	19
25	The role of loops and cation on the volume of unfolding of G-quadruplexes related to HTel. <i>Biophysical Chemistry</i> , 2017, 231, 55-63.	2.8	19
26	On empirical decomposition of volumetric data. <i>Biophysical Chemistry</i> , 2019, 246, 8-15.	2.8	19
27	Stemmed DNA nanostructure for the selective delivery of therapeutics. <i>Nanoscale</i> , 2018, 10, 7511-7518.	5.6	18
28	Sequential activation of anticancer therapy triggered by tumor microenvironment-selective imaging. <i>Journal of Controlled Release</i> , 2019, 298, 110-119.	9.9	15
29	Volumetric properties of the formation of double stranded DNA: A nearest-neighbor analysis. <i>Biopolymers</i> , 2004, 73, 242-257.	2.4	13
30	The DNA double helix fifty years on. <i>Computational Biology and Chemistry</i> , 2003, 27, 461-467.	2.3	12
31	Volumetric Properties of Four-Stranded DNA Structures. <i>Biology</i> , 2021, 10, 813.	2.8	9
32	Probing the structure of multi-stranded guanine-rich DNA complexes by Raman spectroscopy and enzymatic degradation. <i>Biophysical Chemistry</i> , 1999, 79, 11-23.	2.8	8
33	Stress-induced acidification may contribute to formation of unusual structures in C9orf72-repeats. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2018, 1862, 1482-1491.	2.4	8
34	Volumetric Interplay between the Conformational States Adopted by Guanine-Rich DNA from the c-MYC Promoter. <i>Journal of Physical Chemistry B</i> , 2021, 125, 7406-7416.	2.6	8
35	A look at the effect of sequence complexity on pressure destabilisation of DNA polymers. <i>Biophysical Chemistry</i> , 2015, 199, 34-38.	2.8	6
36	Biochemical reprogramming of tumors for active modulation of receptor-mediated nanomaterial delivery. <i>Biomaterials</i> , 2020, 262, 120343.	11.4	5

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37	Dimethyl sulfoxide (DMSO) is a stabilizing co-solvent for G-quadruplex DNA. <i>Biophysical Chemistry</i> , 2022, 282, 106741.	2.8	2