

Aleksandr B Sahakyan

List of Publications by Year in descending order

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28
papers

1,356
citations

567281

15
h-index

552781

26
g-index

32
all docs

32
docs citations

32
times ranked

1834
citing authors

#	ARTICLE	IF	CITATIONS
1	rG4-seq reveals widespread formation of G-quadruplex structures in the human transcriptome. <i>Nature Methods</i> , 2016, 13, 841-844.	19.0	314
2	Whole genome experimental maps of DNA G-quadruplexes in multiple species. <i>Nucleic Acids Research</i> , 2019, 47, 3862-3874.	14.5	280
3	Machine learning model for sequence-driven DNA G-quadruplex formation. <i>Scientific Reports</i> , 2017, 7, 14535.	3.3	111
4	Structural Analysis using SHALiPE to Reveal RNA G-quadruplex Formation in Human Precursor MicroRNA. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 8958-8961.	13.8	92
5	Cyclophilin A catalyzes proline isomerization by an electrostatic handle mechanism. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 10203-10208.	7.1	68
6	Structure-based prediction of methyl chemical shifts in proteins. <i>Journal of Biomolecular NMR</i> , 2011, 50, 331-346.	2.8	65
7	G-quadruplex structures within the 3' UTR of LINE-1 elements stimulate retrotransposition. <i>Nature Structural and Molecular Biology</i> , 2017, 24, 243-247.	8.2	58
8	Selective Chemical Labeling of Natural T Modifications in DNA. <i>Journal of the American Chemical Society</i> , 2015, 137, 9270-9272.	13.7	56
9	Thermal and pH Stabilities of α -DNA: Confronting in vitro Experiments with Models and in Cell NMR Data. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 10286-10294.	13.8	46
10	Structural analysis reveals the formation and role of RNA G-quadruplex structures in human mature microRNAs. <i>Chemical Communications</i> , 2018, 54, 10878-10881.	4.1	44
11	Analysis of the Contributions of Ring Current and Electric Field Effects to the Chemical Shifts of RNA Bases. <i>Journal of Physical Chemistry B</i> , 2013, 117, 1989-1998.	2.6	33
12	ALMOST: An all atom molecular simulation toolkit for protein structure determination. <i>Journal of Computational Chemistry</i> , 2014, 35, 1101-1105.	3.3	31
13	Long genes and genes with multiple splice variants are enriched in pathways linked to cancer and other multigenic diseases. <i>BMC Genomics</i> , 2016, 17, 225.	2.8	28
14	Using Side-Chain Aromatic Proton Chemical Shifts for a Quantitative Analysis of Protein Structures. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 9620-9623.	13.8	20
15	A Conformational Ensemble Derived Using NMR Methyl Chemical Shifts Reveals a Mechanical Clamping Transition That Gates the Binding of the HU Protein to DNA. <i>Journal of the American Chemical Society</i> , 2014, 136, 2204-2207.	13.7	20
16	Structural Analysis using SHALiPE to Reveal RNA G-quadruplex Formation in Human Precursor MicroRNA. <i>Angewandte Chemie</i> , 2016, 128, 9104-9107.	2.0	13
17	Electric Field Effects on One-Bond Indirect Spin-Spin Coupling Constants and Possible Biomolecular Perspectives. <i>Journal of Physical Chemistry A</i> , 2008, 112, 3576-3586.	2.5	12
18	A geometrical parametrization of C1'-C5' RNA ribose chemical shifts calculated by density functional theory. <i>Journal of Chemical Physics</i> , 2013, 139, 034101.	3.0	12

#	ARTICLE	IF	CITATIONS
19	Dielectric permittivity and temperature effects on spin-spin couplings studied on acetonitrile. <i>Magnetic Resonance in Chemistry</i> , 2008, 46, 63-68.	1.9	10
20	Single genome retrieval of context-dependent variability in mutation rates for human germline. <i>BMC Genomics</i> , 2017, 18, 81.	2.8	8
21	Assessment of solvent effects: do weak alignment media affect the structure of the solute?. <i>Magnetic Resonance in Chemistry</i> , 2007, 45, 557-563.	1.9	7
22	Correlation of ^1JCH spin-spin coupling constants and their solvent sensitivities. <i>Chemical Physics Letters</i> , 2012, 542, 56-61.	2.6	7
23	Computational studies of dielectric permittivity effects on chemical shifts of alanine dipeptide. <i>Chemical Physics Letters</i> , 2012, 547, 66-72.	2.6	6
24	Protein Structure Validation Using Side-Chain Chemical Shifts. <i>Journal of Physical Chemistry B</i> , 2012, 116, 4754-4759.	2.6	5
25	Revealing the specific solute-solvent interactions via the measurements of the NMR spin-spin coupling constants. <i>Journal of Molecular Structure</i> , 2015, 1083, 175-178.	3.6	4
26	Torsion sensitivity in NMR of aligned molecules: study on various substituted biphenyls. <i>Magnetic Resonance in Chemistry</i> , 2008, 46, 144-149.	1.9	3
27	A Spontaneous Ring-Opening Reaction Leads to a Repair-Resistant Thymine Oxidation Product in Genomic DNA. <i>ChemBioChem</i> , 2020, 21, 320-323.	2.6	0
28	Thermal and pH Stabilities of λ -DNA: Confronting in vitro Experiments with Models and In-Cell NMR Data. <i>Angewandte Chemie</i> , 2021, 133, 10374-10382.	2.0	0