Aleksandr B Sahakyan

List of Publications by Year
in descending order

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	Thermal and pH Stabilities of iâ€DNA: Confronting in vitro Experiments with Models and Inâ€Cell NMR Data. Angewandte Chemie - International Edition, 2021, 60, 10286-10294.	13.8	46
2	Thermal and pH Stabilities of iâ€DNA: Confronting in vitro Experiments with Models and Inâ€Cell NMR Data. Angewandte Chemie, 2021, 133, 10374-10382.	2.0	0
3	A Spontaneous Ringâ€Opening Reaction Leads to a Repairâ€Resistant Thymine Oxidation Product in Genomic DNA. ChemBioChem, 2020, 21, 320-323.	2.6	0
4	Whole genome experimental maps of DNA G-quadruplexes in multiple species. Nucleic Acids Research, 2019, 47, 3862-3874.	14.5	280
5	Structural analysis reveals the formation and role of RNA G-quadruplex structures in human mature microRNAs. Chemical Communications, 2018, 54, 10878-10881.	4.1	44
6	G-quadruplex structures within the 3â€² UTR of LINE-1 elements stimulate retrotransposition. Nature Structural and Molecular Biology, 2017, 24, 243-247.	8.2	58
7	Machine learning model for sequence-driven DNA G-quadruplex formation. Scientific Reports, 2017, 7, 14535.	3.3	111
8	Single genome retrieval of context-dependent variability in mutation rates for human germline. BMC Genomics, 2017, 18, 81.	2.8	8
9	Structural Analysis using SHALiPE to Reveal RNA Gâ€Quadruplex Formation in Human Precursor MicroRNA. Angewandte Chemie, 2016, 128, 9104-9107.	2.0	13
10	rG4-seq reveals widespread formation of G-quadruplex structures in the human transcriptome. Nature Methods, 2016, 13, 841-844.	19.0	314
11	Structural Analysis using SHALiPE to Reveal RNA Gâ€Quadruplex Formation in Human Precursor MicroRNA. Angewandte Chemie - International Edition, 2016, 55, 8958-8961.	13.8	92
12	Long genes and genes with multiple splice variants are enriched in pathways linked to cancer and other multigenic diseases. BMC Genomics, 2016, 17, 225.	2.8	28
13	Selective Chemical Labeling of Natural T Modifications in DNA. Journal of the American Chemical Society, 2015, 137, 9270-9272.	13.7	56
14	Revealing the specific soluteâ€“solvent interactions via the measurements of the NMR spinâ€“spin coupling constants. Journal of Molecular Structure, 2015, 1083, 175-178.	3.6	4
15	ALMOST: An all atom molecular simulation toolkit for protein structure determination. Journal of Computational Chemistry, 2014, 35, 1101-1105.	3.3	31
16	A Conformational Ensemble Derived Using NMR Methyl Chemical Shifts Reveals a Mechanical Clamping Transition That Gates the Binding of the HU Protein to DNA. Journal of the American Chemical Society, 2014, 136, 2204-2207.	13.7	20
17	Cyclophilin A catalyzes proline isomerization by an electrostatic handle mechanism. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 10203-10208.	7.1	68
18	Analysis of the Contributions of Ring Current and Electric Field Effects to the Chemical Shifts of RNA Bases. Journal of Physical Chemistry B, 2013, 117, 1989-1998.	2.6	33

#	Article	IF	Citations
19	A geometrical parametrization of C1â€²-C5â€² RNA ribose chemical shifts calculated by density functional theory. Journal of Chemical Physics, 2013, 139, 034101.	3.0	12
20	Computational studies of dielectric permittivity effects on chemical shifts of alanine dipeptide. Chemical Physics Letters, 2012, 547, 66-72.	2.6	6
21	Protein Structure Validation Using Side-Chain Chemical Shifts. Journal of Physical Chemistry B, 2012, 116, 4754-4759.	2.6	5
22	Correlation of 1JCH spinâ€“spin coupling constants and their solvent sensitivities. Chemical Physics Letters, 2012, 542, 56-61.	2.6	7
23	Structure-based prediction of methyl chemical shifts in proteins. Journal of Biomolecular NMR, 2011, 50, 331-346.	2.8	65
24	Using Sideâ€€hain Aromatic Proton Chemical Shifts for a Quantitative Analysis of Protein Structures. Angewandte Chemie - International Edition, 2011, 50, 9620-9623.	13.8	20
25	Dielectric permittivity and temperature effects on spinâ€“spin couplings studied on acetonitrile. Magnetic Resonance in Chemistry, 2008, 46, 63-68.	1.9	10
26	Torsion sensitivity in NMR of aligned molecules: study on various substituted biphenyls. Magnetic Resonance in Chemistry, 2008, 46, 144-149.	1.9	3
27	Electric Field Effects on One-Bond Indirect Spinâ^'Spin Coupling Constants and Possible Biomolecular Perspectives. Journal of Physical Chemistry A, 2008, 112, 3576-3586.	2.5	12
28	Assessment of solvent effects: do weak alignment media affect the structure of the solute?. Magnetic Resonance in Chemistry, 2007, 45, 557-563.	1.9	7