Levani Zandarashvili

List of Publications by Year
in descending order

21 papers	1,076 citations	516710 16 h-index	713466 21 g-index
21 all docs	21 docs citations	21 times ranked	1485 citing authors

#	Article	IF	Citations
1	Structural basis for allosteric PARP-1 retention on DNA breaks. Science, 2020, 368, .	12.6	191
2	NAD+ analog reveals PARP-1 substrate-blocking mechanism and allosteric communication from catalytic center to DNA-binding domains. Nature Communications, 2018, 9, 844.	12.8	163
3	Asymmetrical roles of zinc fingers in dynamic DNA-scanning process by the inducible transcription factor Egr-1. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, E1724-E1732.	7.1	90
4	Balancing between affinity and speed in target DNA search by zinc-finger proteins via modulation of dynamic conformational ensemble. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E5142-9.	7.1	90
5	Centromeres are maintained by fastening CENP-A to DNA and directing an arginine anchor-dependent nucleosome transition. Nature Communications, 2017, 8, 15775.	12.8	75
6	Real-time Kinetics of High-mobility Group Box 1 (HMGB1) Oxidation in Extracellular Fluids Studied by in Situ Protein NMR Spectroscopy. Journal of Biological Chemistry, 2013, 288, 11621-11627.	3.4	70
7	Changes in conformational dynamics of basic side chains upon proteinâ€“DNA association. Nucleic Acids Research, 2016, 44, 6961-6970.	14.5	51
8	Entropic Enhancement of Protein-DNA Affinity by Oxygen-to-Sulfur Substitution in DNA Phosphate. Biophysical Journal, 2015, 109, 1026-1037.	0.5	46
9	Signature of Mobile Hydrogen Bonding of Lysine Side Chains from Long-Range ¹⁵Nâ€“¹³C Scalar J-Couplings and Computation. Journal of the American Chemical Society, 2011, 133, 9192-9195.	13.7	40
10	Structural impact of complete CpG methylation within target DNA on specific complex formation of the inducible transcription factor Egrâ€1. FEBS Letters, 2015, 589, 1748-1753.	2.8	39
11	Dynamic Equilibria of Short-Range Electrostatic Interactions at Molecular Interfaces of Proteinâ€“DNA Complexes. Journal of Physical Chemistry Letters, 2015, 6, 2733-2737.	4.6	39
12	Physicochemical Properties of Ion Pairs of Biological Macromolecules. Biomolecules, 2015, 5, 2435-2463.	4.0	30
13	Hydrogen-Deuterium Exchange Coupled to Top- and Middle-Down Mass Spectrometry Reveals Histone Tail Dynamics before and after Nucleosome Assembly. Structure, 2018, 26, 1651-1663.e3.	3.3	30
14	NMR Studies on the Dynamics of Hydrogen Bonds and Ion Pairs Involving Lysine Side Chains of Proteins. Advances in Protein Chemistry and Structural Biology, 2013, 93, 37-80.	2.3	29
15	Temperature Dependence of Internal Motions of Protein Side-Chain NH₃⁺ Groups: Insight into Energy Barriers for Transient Breakage of Hydrogen Bonds. Biochemistry, 2015, 54, 538-545.	2.5	23
16	Effective strategy to assign 1H-15N heteronuclear correlation NMR signals from lysine side-chain NH3 + groups of proteins at low temperature. Journal of Biomolecular NMR, 2014, 60, 23-27.	2.8	19
17	Stereospecific Effects of Oxygenâ€toâ€Sulfur Substitution in DNA Phosphate on Ion Pair Dynamics and Proteinâ€“DNA Affinity. ChemBioChem, 2016, 17, 1636-1642.	2.6	15
18	Residence Times of Molecular Complexes in Solution from NMR Data of Intermolecular Hydrogen-Bond Scalar Coupling. Journal of Physical Chemistry Letters, 2016, 7, 820-824.	4.6	13

#	Article	IF	Citations
19	NMR-based investigations into target DNA search processes of proteins. Methods, 2018, 148, 57-66.	3.8	12
20	Thermodynamic Additivity for Impacts of Base-Pair Substitutions on Association of the Egr-1 Zinc-Finger Protein with DNA. Biochemistry, 2016, 55, 6467-6474.	2.5	9
21	Signal Transmission in Escherichia coli Cyclic AMP Receptor Protein for Survival in Extreme Acidic Conditions. Biochemistry, 2021, 60, 2987-3006.	2.5	2