Anton A Polyansky

List of Publications by Year
in descending order

30 papers	997 citations	394421 19 h-index	454955 30 g-index
33 all docs	33 docs citations	33 times ranked	1430 citing authors

#	Article	IF	Citations
1	Compositional complementarity between genomic RNA and coat proteins in positive-sense single-stranded RNA viruses. Nucleic Acids Research, 2022, 50, 4054-4067.	14.5	1
2	Order from disorder in the sarcomere: FATZ forms a fuzzy but tight complex and phase-separated condensates with α-actinin. Science Advances, 2021, 7, .	10.3	15
3	Direct interplay between stereochemistry and conformational preferences in aminoacylated oligoribonucleotides. Nucleic Acids Research, 2019, 47, 11077-11089.	14.5	2
4	Atomistic mechanism of the constitutive activation of PDGFRA via its transmembrane domain. Biochimica Et Biophysica Acta - General Subjects, 2019, 1863, 82-95.	2.4	8
5	Self-Consistent Framework Connecting Experimental Proxies of Protein Dynamics with Configurational Entropy. Journal of Chemical Theory and Computation, 2018, 14, 3796-3810.	5.3	5
6	<scp>RNA</scp>â€protein interactions in an unstructured context. FEBS Letters, 2018, 592, 2901-2916.	2.8	53
7	<i>Fuento</i>: functional enrichment for bioinformatics. Bioinformatics, 2017, 33, 2604-2606.	4.1	8
8	The Conformation of the Epidermal Growth Factor Receptor Transmembrane Domain Dimer Dynamically Adapts to the Local Membrane Environment. Biochemistry, 2017, 56, 1697-1705.	2.5	39
9	A novel non-canonical PIP-box mediates PARG interaction with PCNA. Nucleic Acids Research, 2017, 45, 9741-9759.	14.5	30
10	Dependence of Binding Free Energies between RNA Nucleobases and Protein Side Chains on Local Dielectric Properties. Journal of Chemical Theory and Computation, 2017, 13, 4504-4513.	5.3	9
11	Inosine Nucleobase Acts as Guanine in Interactions with Protein Side Chains. Journal of the American Chemical Society, 2016, 138, 5519-5522.	13.7	14
12	Structural mechanism for the recognition and ubiquitination of a single nucleosome residue by Rad6â€"Bre1. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 10553-10558.	7.1	44
13	PARENT: A Parallel Software Suite for the Calculation of Configurational Entropy in Biomolecular Systems. Journal of Chemical Theory and Computation, 2016, 12, 2055-2065.	5.3	34
14	Adaptable Lipid Matrix Promotes Proteinâ€"Protein Association in Membranes. Journal of Chemical Theory and Computation, 2015, 11, 4415-4426.	5.3	21
15	Modeling Transmembrane Domain Dimers/Trimers of Plexin Receptors: Implications for Mechanisms of Signal Transmission across the Membrane. PLoS ONE, 2015, 10, e0121513.	2.5	30
16	On the Contribution of Protein Spatial Organization to the Physicochemical Interconnection between Proteins and Their Cognate mRNAs. Life, 2014, 4, 788-799.	2.4	10
17	The Structure and Regulation of Human Muscle α-Actinin. Cell, 2014, 159, 1447-1460.	28.9	178
18	PREDDIMER: a web server for prediction of transmembrane helical dimers. Bioinformatics, 2014, 30, 889-890.	4.1	77

#	Article	IF	Citations
19	Evidence of direct complementary interactions between messenger RNAs and their cognate proteins. Nucleic Acids Research, 2013, 41, 8434-8443.	14.5	48
20	Analogue encoding of physicochemical properties of proteins in their cognate messenger RNAs. Nature Communications, 2013, 4, 2784.	12.8	23
21	Proteome-wide analysis reveals clues of complementary interactions between mRNAs and their cognate proteins as the physicochemical foundation of the genetic code. RNA Biology, 2013, 10, 1248-1254.	3.1	32
22	Protein Electrostatic Properties Predefining the Level of Surface Hydrophobicity Change upon Phosphorylation. Journal of Physical Chemistry Letters, 2012, 3, 973-976.	4.6	30
23	On the Contribution of Linear Correlations to Quasi-harmonic Conformational Entropy in Proteins. Journal of Chemical Theory and Computation, 2012, 8, 3820-3829.	5.3	23
24	Sequence signatures of direct complementarity between mRNAs and cognate proteins on multiple levels. Nucleic Acids Research, 2012, 40, 8874-8882.	14.5	39
25	Multistate Organization of Transmembrane Helical Protein Dimers Governed by the Host Membrane. Journal of the American Chemical Society, 2012, 134, 14390-14400.	13.7	63
26	Estimation of Conformational Entropy in Protein–Ligand Interactions: A Computational Perspective. Methods in Molecular Biology, 2012, 819, 327-353.	0.9	34
27	Structural, dynamic, and functional aspects of helix association in membranes. Advances in Protein Chemistry and Structural Biology, 2011, 83, 129-161.	2.3	12
28	Antimicrobial Peptides Induce Growth of Phosphatidylglycerol Domains in a Model Bacterial Membrane. Journal of Physical Chemistry Letters, 2010, 1, 3108-3111.	4.6	65
29	Adaptation of a Membrane-active Peptide to Heterogeneous Environment. I. Structural Plasticity of the Peptide. Journal of Physical Chemistry B, 2009, 113, 1107-1119.	2.6	36
30	COMPUTER SIMULATIONS OF MEMBRANE-LYTIC PEPTIDES: PERSPECTIVES IN DRUG DESIGN. Journal of Bioinformatics and Computational Biology, 2007, 05, 611-626.	0.8	9