Qi Zhang

List of Publications by Year
in descending order

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		331670	434195
31	1,767	21	31
papers	citations	h-index	g-index

40	40	40	1465
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Functional conservation and divergence of the helixâ€turnâ€helix motif of E2 ubiquitinâ€conjugating enzymes. EMBO Journal, 2022, 41, e108823.	7.8	8
2	Visualizing a protonated RNA state that modulates microRNA-21 maturation. Nature Chemical Biology, 2021, 17, 80-88.	8.0	39
3	Probing excited conformational states of nucleic acids by nitrogen CEST NMR spectroscopy. Journal of Magnetic Resonance, 2020, 310, 106642.	2.1	15
4	Structural basis of nucleosome-dependent cGAS inhibition. Science, 2020, 370, 450-454.	12.6	139
5	An excited state underlies gene regulation of a transcriptional riboswitch. Nature Chemical Biology, 2017, 13, 968-974.	8.0	101
6	Structural conservation in the template/pseudoknot domain of vertebrate telomerase RNA from teleost fish to human. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E5125-34.	7.1	22
7	Measuring Residual Dipolar Couplings in Excited Conformational States of Nucleic Acids by CEST NMR Spectroscopy. Journal of the American Chemical Society, 2015, 137, 13480-13483.	13.7	35
8	Slowdown of Interhelical Motions Induces a Glass Transition in RNA. Biophysical Journal, 2015, 108, 2876-2885.	0.5	7
9	Characterizing excited conformational states of RNA by NMR spectroscopy. Current Opinion in Structural Biology, 2015, 30, 134-146.	5.7	43
10	Structure and sequence elements of the CR4/5 domain of medaka telomerase RNA important for telomerase function. Nucleic Acids Research, 2014, 42, 3395-3408.	14.5	29
11	Characterizing Slow Chemical Exchange in Nucleic Acids by Carbon CEST and Low Spin-Lock Field R_{1ρ} NMR Spectroscopy. Journal of the American Chemical Society, 2014, 136, 20-23.	13.7	82
12	Intrinsic Dynamics of an Extended Hydrophobic Core in the S. cerevisiae RNase III dsRBD Contributes to Recognition of Specific RNA Binding Sites. Journal of Molecular Biology, 2013, 425, 546-562.	4.2	14
13	Molecular Mechanism of GTPase Activation at the Signal Recognition Particle (SRP) RNA Distal End. Journal of Biological Chemistry, 2013, 288, 36385-36397.	3.4	25
14	Comparison of Solution and Crystal Structures of PreQ₁ Riboswitch Reveals Calcium-Induced Changes in Conformation and Dynamics. Journal of the American Chemical Society, 2011, 133, 5190-5193.	13.7	49
15	Architecture of human telomerase RNA. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 20325-20332.	7.1	134
16	RNA Dynamics by Design: Biasing Ensembles Towards the Ligandâ€Bound State. Angewandte Chemie - International Edition, 2010, 49, 5731-5733.	13.8	44
17	Variable helix elongation as a tool to modulate RNA alignment and motional couplings. Journal of Magnetic Resonance, 2010, 202, 117-121.	2.1	19
18	Structurally conserved five nucleotide bulge determines the overall topology of the core domain of human telomerase RNA. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 18761-18768.	7.1	61

#	Article	IF	Citations
19	Referencing Strategy for the Direct Comparison of Nuclear Magnetic Resonance and Molecular Dynamics Motional Parameters in RNA. Journal of Physical Chemistry B, 2010, 114, 929-939.	2.6	18
20	Domain-elongation NMR spectroscopy yields new insights into RNA dynamics and adaptive recognition. Rna, 2009, 15, 1941-1948.	3.5	29
21	Extending the NMR spatial resolution limit for RNA by motional couplings. Nature Methods, 2008, 5, 243-245.	19.0	30
22	Solution Structure and Dynamics of the Wild-type Pseudoknot of Human Telomerase RNA. Journal of Molecular Biology, 2008, 384, 1249-1261.	4.2	91
23	Ultrahigh Resolution Characterization of Domain Motions and Correlations by Multialignment and Multireference Residual Dipolar Coupling NMR. Journal of Physical Chemistry B, 2008, 112, 16815-16822.	2.6	19
24	Resolving fast and slow motions in the internal loop containing stem-loop 1 of HIV-1 that are modulated by Mg2+ binding: role in the kissingâ€“duplex structural transition. Nucleic Acids Research, 2007, 35, 1698-1713.	14.5	51
25	Review NMR studies of RNA dynamics and structural plasticity using NMR residual dipolar couplings. Biopolymers, 2007, 86, 384-402.	2.4	95
26	Visualizing spatially correlated dynamics that directs RNA conformational transitions. Nature, 2007, 450, 1263-1267.	27.8	236
27	A coarse-grained model for the formation of Î± helix with a noninteger period on simple cubic lattices. Journal of Chemical Physics, 2006, 124, 184903.	3.0	17
28	Resolving the Motional Modes That Code for RNA Adaptation. Science, 2006, 311, 653-656.	12.6	216
29	Evidence that Electrostatic Interactions Dictate the Ligand-Induced Arrest of RNA Global Flexibility. Angewandte Chemie - International Edition, 2005, 44, 3412-3415.	13.8	29
30	A coarse-grained model and associated lattice Monte Carlo simulation of the coilâ€“helix transition of a homopolypeptide. Journal of Chemical Physics, 2004, 120, 3467-3474.	3.0	16
31	Probing Motions between Equivalent RNA Domains Using Magnetic Field Induced Residual Dipolar Couplings:â€‰ Accounting for Correlations between Motions and Alignment. Journal of the American Chemical Society, 2003, 125, 10530-10531.	13.7	53