

Qi Zhang

List of Publications by Year in descending order

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31
papers

1,767
citations

331670

21
h-index

434195

31
g-index

40
all docs

40
docs citations

40
times ranked

1465
citing authors

#	ARTICLE	IF	CITATIONS
1	Visualizing spatially correlated dynamics that directs RNA conformational transitions. <i>Nature</i> , 2007, 450, 1263-1267.	27.8	236
2	Resolving the Motional Modes That Code for RNA Adaptation. <i>Science</i> , 2006, 311, 653-656.	12.6	216
3	Structural basis of nucleosome-dependent cGAS inhibition. <i>Science</i> , 2020, 370, 450-454.	12.6	139
4	Architecture of human telomerase RNA. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 20325-20332.	7.1	134
5	An excited state underlies gene regulation of a transcriptional riboswitch. <i>Nature Chemical Biology</i> , 2017, 13, 968-974.	8.0	101
6	Review NMR studies of RNA dynamics and structural plasticity using NMR residual dipolar couplings. <i>Biopolymers</i> , 2007, 86, 384-402.	2.4	95
7	Solution Structure and Dynamics of the Wild-type Pseudoknot of Human Telomerase RNA. <i>Journal of Molecular Biology</i> , 2008, 384, 1249-1261.	4.2	91
8	Characterizing Slow Chemical Exchange in Nucleic Acids by Carbon CEST and Low Spin-Lock Field ^{13}C NMR Spectroscopy. <i>Journal of the American Chemical Society</i> , 2014, 136, 20-23.	13.7	82
9	Structurally conserved five nucleotide bulge determines the overall topology of the core domain of human telomerase RNA. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 18761-18768.	7.1	61
10	Probing Motions between Equivalent RNA Domains Using Magnetic Field Induced Residual Dipolar Couplings: Accounting for Correlations between Motions and Alignment. <i>Journal of the American Chemical Society</i> , 2003, 125, 10530-10531.	13.7	53
11	Resolving fast and slow motions in the internal loop containing stem-loop 1 of HIV-1 that are modulated by Mg^{2+} binding: role in the kissing duplex structural transition. <i>Nucleic Acids Research</i> , 2007, 35, 1698-1713.	14.5	51
12	Comparison of Solution and Crystal Structures of PreQ ₁ Riboswitch Reveals Calcium-Induced Changes in Conformation and Dynamics. <i>Journal of the American Chemical Society</i> , 2011, 133, 5190-5193.	13.7	49
13	RNA Dynamics by Design: Biasing Ensembles Towards the Ligand-Bound State. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 5731-5733.	13.8	44
14	Characterizing excited conformational states of RNA by NMR spectroscopy. <i>Current Opinion in Structural Biology</i> , 2015, 30, 134-146.	5.7	43
15	Visualizing a protonated RNA state that modulates microRNA-21 maturation. <i>Nature Chemical Biology</i> , 2021, 17, 80-88.	8.0	39
16	Measuring Residual Dipolar Couplings in Excited Conformational States of Nucleic Acids by CEST NMR Spectroscopy. <i>Journal of the American Chemical Society</i> , 2015, 137, 13480-13483.	13.7	35
17	Extending the NMR spatial resolution limit for RNA by motional couplings. <i>Nature Methods</i> , 2008, 5, 243-245.	19.0	30
18	Evidence that Electrostatic Interactions Dictate the Ligand-Induced Arrest of RNA Global Flexibility. <i>Angewandte Chemie - International Edition</i> , 2005, 44, 3412-3415.	13.8	29

#	ARTICLE	IF	CITATIONS
19	Domain-elongation NMR spectroscopy yields new insights into RNA dynamics and adaptive recognition. <i>Rna</i> , 2009, 15, 1941-1948.	3.5	29
20	Structure and sequence elements of the CR4/5 domain of medaka telomerase RNA important for telomerase function. <i>Nucleic Acids Research</i> , 2014, 42, 3395-3408.	14.5	29
21	Molecular Mechanism of GTPase Activation at the Signal Recognition Particle (SRP) RNA Distal End. <i>Journal of Biological Chemistry</i> , 2013, 288, 36385-36397.	3.4	25
22	Structural conservation in the template/pseudoknot domain of vertebrate telomerase RNA from teleost fish to human. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E5125-34.	7.1	22
23	Ultrahigh Resolution Characterization of Domain Motions and Correlations by Multialignment and Multireference Residual Dipolar Coupling NMR. <i>Journal of Physical Chemistry B</i> , 2008, 112, 16815-16822.	2.6	19
24	Variable helix elongation as a tool to modulate RNA alignment and motional couplings. <i>Journal of Magnetic Resonance</i> , 2010, 202, 117-121.	2.1	19
25	Referencing Strategy for the Direct Comparison of Nuclear Magnetic Resonance and Molecular Dynamics Motional Parameters in RNA. <i>Journal of Physical Chemistry B</i> , 2010, 114, 929-939.	2.6	18
26	A coarse-grained model for the formation of $\frac{1}{2}$ helix with a noninteger period on simple cubic lattices. <i>Journal of Chemical Physics</i> , 2006, 124, 184903.	3.0	17
27	A coarse-grained model and associated lattice Monte Carlo simulation of the coil-helix transition of a homopolypeptide. <i>Journal of Chemical Physics</i> , 2004, 120, 3467-3474.	3.0	16
28	Probing excited conformational states of nucleic acids by nitrogen CEST NMR spectroscopy. <i>Journal of Magnetic Resonance</i> , 2020, 310, 106642.	2.1	15
29	Intrinsic Dynamics of an Extended Hydrophobic Core in the <i>S. cerevisiae</i> RNase III dsRBD Contributes to Recognition of Specific RNA Binding Sites. <i>Journal of Molecular Biology</i> , 2013, 425, 546-562.	4.2	14
30	Functional conservation and divergence of the helix-turn-helix motif of E2 ubiquitin-conjugating enzymes. <i>EMBO Journal</i> , 2022, 41, e108823.	7.8	8
31	Slowdown of Interhelical Motions Induces a Glass Transition in RNA. <i>Biophysical Journal</i> , 2015, 108, 2876-2885.	0.5	7