

# Hashim M Al-Hashimi

## List of Publications by Year in descending order

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129  
papers

7,164  
citations

46918

47  
h-index

66788

78  
g-index

143  
all docs

143  
docs citations

143  
times ranked

4332  
citing authors

#	ARTICLE	IF	CITATIONS
1	The roles of structural dynamics in the cellular functions of RNAs. <i>Nature Reviews Molecular Cell Biology</i> , 2019, 20, 474-489.	16.1	322
2	Transient Hoogsteen base pairs in canonical duplex DNA. <i>Nature</i> , 2011, 470, 498-502.	13.7	291
3	Functional complexity and regulation through RNA dynamics. <i>Nature</i> , 2012, 482, 322-330.	13.7	286
4	RNA dynamics: it is about time. <i>Current Opinion in Structural Biology</i> , 2008, 18, 321-329.	2.6	279
5	Visualizing spatially correlated dynamics that directs RNA conformational transitions. <i>Nature</i> , 2007, 450, 1263-1267.	13.7	236
6	Discovery of selective bioactive small molecules by targeting an RNA dynamic ensemble. <i>Nature Chemical Biology</i> , 2011, 7, 553-559.	3.9	232
7	Visualizing transient Watson-Crick-like mispairs in DNA and RNA duplexes. <i>Nature</i> , 2015, 519, 315-320.	13.7	218
8	Resolving the Motional Modes That Code for RNA Adaptation. <i>Science</i> , 2006, 311, 653-656.	6.0	216
9	Visualizing transient low-populated structures of RNA. <i>Nature</i> , 2012, 491, 724-728.	13.7	184
10	Topology Links RNA Secondary Structure with Global Conformation, Dynamics, and Adaptation. <i>Science</i> , 2010, 327, 202-206.	6.0	177
11	Hierarchy of RNA Functional Dynamics. <i>Annual Review of Biochemistry</i> , 2014, 83, 441-466.	5.0	162
12	Concerted motions in HIV-1 TAR RNA may allow access to bound state conformations: RNA dynamics from NMR residual dipolar couplings 1 Edited by M. F. Summers. <i>Journal of Molecular Biology</i> , 2002, 315, 95-102.	2.0	141
13	Characterizing RNA dynamics at atomic resolution using solution-state NMR spectroscopy. <i>Nature Methods</i> , 2011, 8, 919-931.	9.0	131
14	Dynamic basis for dG-CdT misincorporation via tautomerization and ionization. <i>Nature</i> , 2018, 554, 195-201.	13.7	117
15	Widespread transient Hoogsteen base pairs in canonical duplex DNA with variable energetics. <i>Nature Communications</i> , 2014, 5, 4786.	5.8	113
16	Extending the Range of Microsecond-to-Millisecond Chemical Exchange Detected in Labeled and Unlabeled Nucleic Acids by Selective Carbon $^{13}\text{C}$ NMR Spectroscopy. <i>Journal of the American Chemical Society</i> , 2009, 131, 3818-3819.	6.6	109
17	Constructing RNA dynamical ensembles by combining MD and motionally decoupled NMR RDCs: new insights into RNA dynamics and adaptive ligand recognition. <i>Nucleic Acids Research</i> , 2009, 37, 3670-3679.	6.5	106
18	m1A and m1G disrupt A-RNA structure through the intrinsic instability of Hoogsteen base pairs. <i>Nature Structural and Molecular Biology</i> , 2016, 23, 803-810.	3.6	100

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19	Review NMR studies of RNA dynamics and structural plasticity using NMR residual dipolar couplings. <i>Biopolymers</i> , 2007, 86, 384-402.	1.2	95
20	A General Method for Constructing Atomic-Resolution RNA Ensembles using NMR Residual Dipolar Couplings: The Basis for Interhelical Motions Revealed. <i>Journal of the American Chemical Society</i> , 2013, 135, 5457-5466.	6.6	94
21	A historical account of Hoogsteen base pairs in duplex DNA. <i>Biopolymers</i> , 2013, 99, 955-968.	1.2	92
22	Engineering a Therapeutic Lectin by Uncoupling Mitogenicity from Antiviral Activity. <i>Cell</i> , 2015, 163, 746-758.	13.5	89
23	Dynamics of Large Elongated RNA by NMR Carbon Relaxation. <i>Journal of the American Chemical Society</i> , 2007, 129, 16072-16082.	6.6	85
24	Advances in the Determination of Nucleic Acid Conformational Ensembles. <i>Annual Review of Physical Chemistry</i> , 2014, 65, 293-316.	4.8	84
25	Probing Transient Hoogsteen Hydrogen Bonds in Canonical Duplex DNA Using NMR Relaxation Dispersion and Single-Atom Substitution. <i>Journal of the American Chemical Society</i> , 2012, 134, 3667-3670.	6.6	83
26	Characterizing the Protonation State of Cytosine in Transient G <sup>+</sup> ·C Hoogsteen Base Pairs in Duplex DNA. <i>Journal of the American Chemical Society</i> , 2013, 135, 6766-6769.	6.6	77
27	Arginamide Binding Arrests Global Motions in HIV-1 TAR RNA: Comparison with Mg <sup>2+</sup> -induced Conformational Stabilization. <i>Journal of Molecular Biology</i> , 2004, 338, 7-16.	2.0	76
28	DNA mismatches reveal conformational penalties in protein-DNA recognition. <i>Nature</i> , 2020, 587, 291-296.	13.7	74
29	High-performance virtual screening by targeting a high-resolution RNA dynamic ensemble. <i>Nature Structural and Molecular Biology</i> , 2018, 25, 425-434.	3.6	69
30	Mg <sup>2+</sup> -induced Variations in the Conformation and Dynamics of HIV-1 TAR RNA Probed Using NMR Residual Dipolar Couplings. <i>Journal of Molecular Biology</i> , 2003, 329, 867-873.	2.0	67
31	New insights into Hoogsteen base pairs in DNA duplexes from a structure-based survey. <i>Nucleic Acids Research</i> , 2015, 43, 3420-3433.	6.5	66
32	A potentially abundant junctional RNA motif stabilized by m <sup>6</sup> A and Mg <sup>2+</sup> . <i>Nature Communications</i> , 2018, 9, 2761.	5.8	66
33	Characterizing Complex Dynamics in the Transactivation Response Element Apical Loop and Motional Correlations with the Bulge by NMR, Molecular Dynamics, and Mutagenesis. <i>Biophysical Journal</i> , 2008, 95, 3906-3915.	0.2	65
34	Towards Structural Genomics of RNA: Rapid NMR Resonance Assignment and Simultaneous RNA Tertiary Structure Determination Using Residual Dipolar Couplings. <i>Journal of Molecular Biology</i> , 2002, 318, 637-649.	2.0	63
35	Amiloride as a new RNA-binding scaffold with activity against HIV-1 TAR. <i>MedChemComm</i> , 2017, 8, 1022-1036.	3.5	60
36	2-O-Methylation can increase the abundance and lifetime of alternative RNA conformational states. <i>Nucleic Acids Research</i> , 2020, 48, 12365-12379.	6.5	59

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37	Topological constraints: using RNA secondary structure to model 3D conformation, folding pathways, and dynamic adaptation. <i>Current Opinion in Structural Biology</i> , 2011, 21, 296-305.	2.6	58
38	Insights into Watson-Crick/Hoogsteen breathing dynamics and damage repair from the solution structure and dynamic ensemble of DNA duplexes containing m1A. <i>Nucleic Acids Research</i> , 2017, 45, 5586-5601.	6.5	57
39	Insight into the CSA tensors of nucleobase carbons in RNA polynucleotides from solution measurements of residual CSA: Towards new long-range orientational constraints. <i>Journal of Magnetic Resonance</i> , 2006, 179, 299-307.	1.2	56
40	Characterizing the relative orientation and dynamics of RNA A-form helices using NMR residual dipolar couplings. <i>Nature Protocols</i> , 2007, 2, 1536-1546.	5.5	56
41	Characterizing RNA Excited States Using NMR Relaxation Dispersion. <i>Methods in Enzymology</i> , 2015, 558, 39-73.	0.4	55
42	Impact of static and dynamic A-form heterogeneity on the determination of RNA global structural dynamics using NMR residual dipolar couplings. <i>Journal of Biomolecular NMR</i> , 2006, 36, 235-249.	1.6	54
43	Coarse Grained Models Reveal Essential Contributions of Topological Constraints to the Conformational Free Energy of RNA Bulges. <i>Journal of Physical Chemistry B</i> , 2014, 118, 2615-2627.	1.2	53
44	Characterizing micro-to-millisecond chemical exchange in nucleic acids using off-resonance $R_{1\rho}$ relaxation dispersion. <i>Progress in Nuclear Magnetic Resonance Spectroscopy</i> , 2019, 112-113, 55-102.	3.9	53
45	Unraveling the structural complexity in a single-stranded RNA tail: implications for efficient ligand binding in the prequeuosine riboswitch. <i>Nucleic Acids Research</i> , 2012, 40, 1345-1355.	6.5	52
46	Rapid and accurate determination of atomistic RNA dynamic ensemble models using NMR and structure prediction. <i>Nature Communications</i> , 2020, 11, 5531.	5.8	52
47	Dynamics-Based Amplification of RNA Function and Its Characterization by Using NMR Spectroscopy. <i>ChemBioChem</i> , 2005, 6, 1506-1519.	1.3	51
48	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.	6.5	51
49	Invisible RNA state dynamically couples distant motifs. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 9485-9490.	3.3	51
50	Probing $Na^{+}$ -Induced Changes in the HIV-1 TAR Conformational Dynamics Using NMR Residual Dipolar Couplings: New Insights into the Role of Counterions and Electrostatic Interactions in Adaptive Recognition. <i>Biochemistry</i> , 2007, 46, 6525-6535.	1.2	50
51	Structural and Dynamic Basis for Low-Affinity, High-Selectivity Binding of L-Glutamine by the Glutamine Riboswitch. <i>Cell Reports</i> , 2015, 13, 1800-1813.	2.9	50
52	Visualizing the formation of an RNA folding intermediate through a fast highly modular secondary structure switch. <i>Nature Communications</i> , 2016, 7, ncomms11768.	5.8	50
53	Pseudouridine and $m^6$ -methyladenosine modifications weaken PUF protein/RNA interactions. <i>Rna</i> , 2017, 23, 611-618.	1.6	50
54	Field- and Phage-Induced Dipolar Couplings in a Homodimeric DNA Quadruplex: Relative Orientation of G $\cdot$ (C $\sim$ A) Triad and G-Tetrad Motifs and Direct Determination of C2 Symmetry Axis Orientation. <i>Journal of the American Chemical Society</i> , 2001, 123, 633-640.	6.6	47

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55	Direct NMR Evidence that Transient Tautomeric and Anionic States in dC <sup>+</sup> -dT Form Watson-Crick-like Base Pairs. <i>Journal of the American Chemical Society</i> , 2017, 139, 4326-4329.	6.6	47
56	3D maps of RNA interhelical junctions. <i>Nature Protocols</i> , 2011, 6, 1536-1545.	5.5	46
57	NMR Chemical Exchange Measurements Reveal That <sup>6</sup> -Methyladenosine Slows RNA Annealing. <i>Journal of the American Chemical Society</i> , 2019, 141, 19988-19993.	6.6	46
58	RNA Dynamics by Design: Biasing Ensembles Towards the Ligand-Bound State. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 5731-5733.	7.2	44
59	Probing Sequence-Specific DNA Flexibility in A-Tracts and Pyrimidine-Purine Steps by Nuclear Magnetic Resonance <sup>13</sup> C Relaxation and Molecular Dynamics Simulations. <i>Biochemistry</i> , 2012, 51, 8654-8664.	1.2	44
60	Structural plasticity and Mg <sup>2+</sup> binding properties of RNase P P4 from combined analysis of NMR residual dipolar couplings and motionally decoupled spin relaxation. <i>Rna</i> , 2006, 13, 251-266.	1.6	43
61	Developments in solution-state NMR yield broader and deeper views of the dynamic ensembles of nucleic acids. <i>Current Opinion in Structural Biology</i> , 2021, 70, 16-25.	2.6	42
62	NMR studies of nucleic acid dynamics. <i>Journal of Magnetic Resonance</i> , 2013, 237, 191-204.	1.2	40
63	Modulation of Hoogsteen dynamics on DNA recognition. <i>Nature Communications</i> , 2018, 9, 1473.	5.8	38
64	New insights into the fundamental role of topological constraints as a determinant of two-way junction conformation. <i>Nucleic Acids Research</i> , 2012, 40, 892-904.	6.5	34
65	Development and application of aromatic [ <sup>13</sup> C, <sup>1</sup> H] SOFAST-HMQC NMR experiment for nucleic acids. <i>Journal of Biomolecular NMR</i> , 2014, 60, 77-83.	1.6	34
66	Resolving sugar puckers in RNA excited states exposes slow modes of repuckering dynamics. <i>Nucleic Acids Research</i> , 2017, 45, e134-e134.	6.5	33
67	iRED Analysis of TAR RNA Reveals Motional Coupling, Long-Range Correlations, and a Dynamical Hinge. <i>Biophysical Journal</i> , 2007, 93, 411-422.	0.2	31
68	Utility of <sup>1</sup> H NMR Chemical Shifts in Determining RNA Structure and Dynamics. <i>Journal of Physical Chemistry B</i> , 2013, 117, 2045-2052.	1.2	31
69	Flipping of the Ribosomal A-Site Adenines Provides a Basis for tRNA Selection. <i>Journal of Molecular Biology</i> , 2014, 426, 3201-3213.	2.0	31
70	Modulating RNA Alignment Using Directional Dynamic Kinks: Application in Determining an Atomic-Resolution Ensemble for a Hairpin using NMR Residual Dipolar Couplings. <i>Journal of the American Chemical Society</i> , 2015, 137, 12954-12965.	6.6	31
71	Dynamic ensemble of HIV-1 RRE stem IIB reveals non-native conformations that disrupt the Rev-binding site. <i>Nucleic Acids Research</i> , 2019, 47, 7105-7117.	6.5	31
72	Evaluating the uncertainty in exchange parameters determined from off-resonance R <sub>1</sub> ρ relaxation dispersion for systems in fast exchange. <i>Journal of Magnetic Resonance</i> , 2014, 244, 18-29.	1.2	30

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73	Atomic structures of excited state Aâ€“T Hoogsteen base pairs in duplex DNA by combining NMR relaxation dispersion, mutagenesis, and chemical shift calculations. <i>Journal of Biomolecular NMR</i> , 2018, 70, 229-244.	1.6	30
74	Evidence that Electrostatic Interactions Dictate the Ligand-Induced Arrest of RNA Global Flexibility. <i>Angewandte Chemie - International Edition</i> , 2005, 44, 3412-3415.	7.2	29
75	Measuring similarity between dynamic ensembles of biomolecules. <i>Nature Methods</i> , 2014, 11, 552-554.	9.0	29
76	Sequence-Specific B-DNA Flexibility Modulates Z-DNA Formation. <i>Journal of the American Chemical Society</i> , 2011, 133, 2016-2018.	6.6	28
77	Probing RNA Conformational Equilibria within the Functional Cellular Context. <i>Cell Reports</i> , 2020, 30, 2472-2480.e4.	2.9	28
78	Residual dipolar couplings: synergy between NMR and structural genomics. <i>Journal of Biomolecular NMR</i> , 2002, 22, 1-8.	1.6	26
79	Shortening the HIV-1 TAR RNA Bulge by a Single Nucleotide Preserves Motional Modes over a Broad Range of Time Scales. <i>Biochemistry</i> , 2016, 55, 4445-4456.	1.2	23
80	Why are Hoogsteen base pairs energetically disfavored in A-RNA compared to B-DNA?. <i>Nucleic Acids Research</i> , 2018, 46, 11099-11114.	6.5	23
81	Topological constraints are major determinants of tRNA tertiary structure and dynamics and provide basis for tertiary folding cooperativity. <i>Nucleic Acids Research</i> , 2014, 42, 11792-11804.	6.5	22
82	Exposing Hidden High-Affinity RNA Conformational States. <i>Journal of the American Chemical Society</i> , 2020, 142, 907-921.	6.6	21
83	Rapid Exchange Between Free and Bound States in RNAâ€“Dendrimer Polyplexes: Implications on the Mechanism of Delivery and Release. <i>Biomacromolecules</i> , 2016, 17, 154-164.	2.6	20
84	Hidden Structural Modules in a Cooperative RNA Folding Transition. <i>Cell Reports</i> , 2018, 22, 3240-3250.	2.9	20
85	Environmental Effects on Guanine-Thymine Mispair Tautomerization Explored with Quantum Mechanical/Molecular Mechanical Free Energy Simulations. <i>Journal of the American Chemical Society</i> , 2020, 142, 11183-11191.	6.6	20
86	Extending the Sensitivity of CEST NMR Spectroscopy to Microâ€“toâ€“Millisecond Dynamics in Nucleic Acids Using Highâ€“Power Radioâ€“Frequency Fields. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 11262-11266.	7.2	20
87	Hoogsteen base pairs increase the susceptibility of double-stranded DNA to cytotoxic damage. <i>Journal of Biological Chemistry</i> , 2020, 295, 15933-15947.	1.6	20
88	5â€“Oxyacetic Acid Modification Destabilizes Double Helical Stem Structures and Favors Anionic Watsonâ€“Crick like cmo<sup>5</sup>Uâ€“G Base Pairs. <i>Chemistry - A European Journal</i> , 2018, 24, 18903-18906.	1.7	18
89	A quantitative model predicts how m6A reshapes the kinetic landscape of nucleic acid hybridization and conformational transitions. <i>Nature Communications</i> , 2021, 12, 5201.	5.8	18
90	Characterizing Watsonâ€“Crick versus Hoogsteen Base Pairing in a DNAâ€“Protein Complex Using Nuclear Magnetic Resonance and Site-Specifically <sup>13</sup> C- and <sup>15</sup> N-Labeled DNA. <i>Biochemistry</i> , 2019, 58, 1963-1974.	1.2	17

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91	Structural dynamics of a single-stranded RNA helix junction using NMR. <i>Rna</i> , 2014, 20, 782-791.	1.6	16
92	Water-Mediated Carbon-Oxygen Hydrogen Bonding Facilitates S-Adenosylmethionine Recognition in the Reactivation Domain of Cobalamin-Dependent Methionine Synthase. <i>Biochemistry</i> , 2018, 57, 3733-3740.	1.2	16
93	Demonstration that Small Molecules can Bind and Stabilize Low-abundance Short-lived RNA Excited Conformational States. <i>Journal of Molecular Biology</i> , 2020, 432, 1297-1304.	2.0	16
94	Noncanonical Secondary Structure Stabilizes Mitochondrial tRNA <sup>Ser(UCN)</sup> by Reducing the Entropic Cost of Tertiary Folding. <i>Journal of the American Chemical Society</i> , 2015, 137, 3592-3599.	6.6	15
95	Inter-helical conformational preferences of HIV-1 TAR-RNA from maximum occurrence analysis of NMR data and molecular dynamics simulations. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 5743-5752.	1.3	15
96	Robust IR-based detection of stable and fractionally populated G <sup>+</sup> and A <sup>+</sup> Hoogsteen base pairs in duplex DNA. <i>FEBS Letters</i> , 2017, 591, 1770-1784.	1.3	15
97	The Mechanism of HdeA Unfolding and Chaperone Activation. <i>Journal of Molecular Biology</i> , 2018, 430, 33-40.	2.0	15
98	m6A minimally impacts the structure, dynamics, and Rev ARM binding properties of HIV-1 RRE stem IIB. <i>PLoS ONE</i> , 2019, 14, e0224850.	1.1	15
99	Probing conformational transitions towards mutagenic Watson-Crick-like G-T mismatches using off-resonance sugar carbon R1-relaxation dispersion. <i>Journal of Biomolecular NMR</i> , 2020, 74, 457-471.	1.6	15
100	NMR Studies of Biomolecular Dynamics and Structural Plasticity Using Residual Dipolar Couplings. <i>Annual Reports on NMR Spectroscopy</i> , 2003, 51, 105-166.	0.7	14
101	RNA Structural Modules Control the Rate and Pathway of RNA Folding and Assembly. <i>Journal of Molecular Biology</i> , 2016, 428, 3972-3985.	2.0	14
102	Increasing occurrences and functional roles for high energy purine-pyrimidine base-pairs in nucleic acids. <i>Current Opinion in Structural Biology</i> , 2014, 24, 72-80.	2.6	13
103	Increasing the length of poly-pyrimidine bulges broadens RNA conformational ensembles with minimal impact on stacking energetics. <i>Rna</i> , 2018, 24, 1363-1376.	1.6	13
104	Infrared Spectroscopic Observation of a C <sup>+</sup> Hoogsteen Base Pair in the DNA:TATA-Box Binding Protein Complex Under Solution Conditions. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 12010-12013.	7.2	13
105	Understanding the characteristics of nonspecific binding of drug-like compounds to canonical stem-loop RNAs and their implications for functional cellular assays. <i>Rna</i> , 2021, 27, 12-26.	1.6	13
106	Unveiling Inherent Degeneracies in Determining Population-Weighted Ensembles of Interdomain Orientational Distributions Using NMR Residual Dipolar Couplings: Application to RNA Helix Junction Helix Motifs. <i>Journal of Physical Chemistry B</i> , 2015, 119, 9614-9626.	1.2	11
107	Direct evidence for (G)O6A-H2-N4(C) <sup>+</sup> hydrogen bonding in transient G(syn)-C <sup>+</sup> and G(syn)-m5C <sup>+</sup> Hoogsteen base pairs in duplex DNA from cytosine amino nitrogen off-resonance R1-relaxation dispersion measurements. <i>Journal of Magnetic Resonance</i> , 2019, 308, 106589.	1.2	11
108	Revealing A-T and G-C Hoogsteen base pairs in stressed protein-bound duplex DNA. <i>Nucleic Acids Research</i> , 2021, 49, 12540-12555.	6.5	10

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109	Guanine to Inosine Substitution Leads to Large Increases in the Population of a Transient GÂ-C Hoogsteen Base Pair. <i>Biochemistry</i> , 2014, 53, 7145-7147.	1.2	9
110	Rapid assessment of Watsonâ€Crick to Hoogsteen exchange in unlabeled DNA duplexes using high-power SELOPE imino &lt;sup>1&lt;/sup>H CEST. <i>Magnetic Resonance</i> , 2021, 2, 715-731.	0.8	9
111	The RRM of the kRNA-editing protein TbRGG2 uses multiple surfaces to bind and remodel RNA. <i>Nucleic Acids Research</i> , 2019, 47, 2130-2142.	6.5	8
112	Anomalous Reverse Transcription through Chemical Modifications in Polyadenosine Stretches. <i>Biochemistry</i> , 2020, 59, 2154-2170.	1.2	8
113	Measuring thermodynamic preferences to form non-native conformations in nucleic acids using ultraviolet melting. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	3.3	8
114	Slowdown of Interhelical Motions Induces a Glass Transition in RNA. <i>Biophysical Journal</i> , 2015, 108, 2876-2885.	0.2	7
115	Exciting Structures. <i>Science</i> , 2010, 329, 1295-1296.	6.0	6
116	Structural basis for impaired 5â€2 processing of a mutant tRNA associated with defects in neuronal homeostasis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, e2119529119.	3.3	5
117	Dynamic Motions of the HIV-1 Frameshift Site RNA. <i>Biophysical Journal</i> , 2015, 108, 644-654.	0.2	4
118	HIV-1 leader RNA dimeric interface revealed by NMR. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 13263-13265.	3.3	4
119	An RNA tertiary switch by modifying how helices are tethered. <i>Genome Biology</i> , 2014, 15, 425.	3.8	3
120	Secondary structure encodes a cooperative tertiary folding funnel in the <i>Azoarcus</i> ribozyme. <i>Nucleic Acids Research</i> , 2016, 44, 402-412.	6.5	3
121	Infrared Spectroscopic Observation of a Gâ€C<sup>+</sup> Hoogsteen Base Pair in the DNA:TATAâ€Box Binding Protein Complex Under Solution Conditions. <i>Angewandte Chemie</i> , 2019, 131, 12138-12141.	1.6	1
122	Extending the Sensitivity of CEST NMR Spectroscopy to Microâ€toâ€Millisecond Dynamics in Nucleic Acids Using Highâ€Power Radioâ€Frequency Fields. <i>Angewandte Chemie</i> , 2020, 132, 11358-11362.	1.6	1
123	Editorial overview: Nucleic acids and their protein complexes: Progress in nucleic acid structural biology: new technologies and discoveries. <i>Current Opinion in Structural Biology</i> , 2015, 30, vii-viii.	2.6	0
124	Structural and Functional Characterization of Sulfonium Carbonâ€Oxygen Hydrogen Bonding in the Deoxyamino Sugar Methyltransferase TylM1. <i>Biochemistry</i> , 2019, 58, 2152-2159.	1.2	0
125	Using Conformational Penalties to Assess the Structure Dependence of RNA Cellular Function. <i>FASEB Journal</i> , 2019, 33, 220.1.	0.2	0
126	m6A minimally impacts the structure, dynamics, and Rev ARM binding properties of HIV-1 RRE stem IIB. , 2019, 14, e0224850.		0



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127	m6A minimally impacts the structure, dynamics, and Rev ARM binding properties of HIV-1 RRE stem IIB. , 2019, 14, e0224850.		0
128	m6A minimally impacts the structure, dynamics, and Rev ARM binding properties of HIV-1 RRE stem IIB. , 2019, 14, e0224850.		0
129	m6A minimally impacts the structure, dynamics, and Rev ARM binding properties of HIV-1 RRE stem IIB. , 2019, 14, e0224850.		0