List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Common genetic variation in the HLA region is associated with late-onset sporadic Parkinson's disease. Nature Genetics, 2010, 42, 781-785.	21.4	692
2	Toward interoperable bioscience data. Nature Genetics, 2012, 44, 121-126.	21.4	362
3	Coarse-grained modeling of large RNA molecules with knowledge-based potentials and structural filters. Rna, 2009, 15, 189-199.	3.5	300
4	SAFA: Semi-automated footprinting analysis software for high-throughput quantification of nucleic acid footprinting experiments. Rna, 2005, 11, 344-354.	3.5	299
5	Disease-Associated Mutations That Alter the RNA Structural Ensemble. PLoS Genetics, 2010, 6, e1001074.	3.5	292
6	The structure of the influenza A virus genome. Nature Microbiology, 2019, 4, 1781-1789.	13.3	157
7	The Role of Cationâ^ï€ Interactions in Biomolecular Association. Design of Peptides Favoring Interactions between Cationic and Aromatic Amino Acid Side Chains. Journal of the American Chemical Society, 2001, 123, 6232-6245.	13.7	122
8	Solution and Micelle-Bound Structures of Tachyplesin I and Its Active Aromatic Linear Derivativesâ€,â€j. Biochemistry, 2002, 41, 12359-12368.	2.5	98
9	The Paradoxical Behavior of a Highly Structured Misfolded Intermediate in RNA Folding. Journal of Molecular Biology, 2006, 363, 531-544.	4.2	92
10	High-throughput single-nucleotide structural mapping by capillary automated footprinting analysis. Nucleic Acids Research, 2008, 36, e63-e63.	14.5	89
11	Small RNAs derived from IncRNA RNase MRP have gene-silencing activity relevant to human cartilage–hair hypoplasia. Human Molecular Genetics, 2014, 23, 368-382.	2.9	83
12	Structural inference of native and partially folded RNA by high-throughput contact mapping. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 4144-4149.	7.1	79
13	Semiautomated and rapid quantification of nucleic acid footprinting and structure mapping experiments. Nature Protocols, 2008, 3, 1395-1401.	12.0	70
14	Multiple conformations are a conserved and regulatory feature of the <i>RB1</i> 5′ UTR. Rna, 2015, 21, 1274-1285.	3.5	60
15	Distinct contribution of electrostatics, initial conformational ensemble, and macromolecular stability in RNA folding. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 7045-7050.	7.1	56
16	Modeling protein recognition of carbohydrates. Proteins: Structure, Function and Bioinformatics, 2005, 60, 591-597.	2.6	53
17	Energy barriers, pathways, and dynamics during folding of large, multidomain RNAs. Current Opinion in Chemical Biology, 2008, 12, 655-666.	6.1	53
18	Evaluation of the information content of RNA structure mapping data for secondary structure prediction. Rna, 2010, 16, 1108-1117.	3.5	52

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19	An RNA structure-mediated, posttranscriptional model of human α-1-antitrypsin expression. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E10244-E10253.	7.1	52
20	A Functional riboSNitch in the 3′ Untranslated Region of <i>FKBP5</i> Alters MicroRNA-320a Binding Efficiency and Mediates Vulnerability to Chronic Post-Traumatic Pain. Journal of Neuroscience, 2018, 38, 8407-8420.	3.6	52
21	Local RNA structural changes induced by crystallization are revealed by SHAPE. Rna, 2007, 13, 536-548.	3.5	51
22	Evaluating our ability to predict the structural disruption of RNA by SNPs. BMC Genomics, 2012, 13, S6.	2.8	51
23	Polysaccharide Recognition by Surfactant Protein D:Â Novel Interactions of a C-Type Lectin with Nonterminal Glucosyl Residuesâ€. Biochemistry, 2001, 40, 7789-7798.	2.5	50
24	Structural effects of linkage disequilibrium on the transcriptome. Rna, 2012, 18, 77-87.	3.5	49
25	Messenger RNA Structure Regulates Translation Initiation: A Mechanism Exploited from Bacteria to Humans. Biochemistry, 2018, 57, 3537-3539.	2.5	48
26	Specific empirical free energy function for automated docking of carbohydrates to proteins. Journal of Computational Chemistry, 2003, 24, 1748-1757.	3.3	47
27	Local Kinetic Measures of Macromolecular Structure Reveal Partitioning among Multiple Parallel Pathways from the Earliest Steps in the Folding of a Large RNA Molecule. Journal of Molecular Biology, 2006, 358, 1179-1190.	4.2	46
28	Primary and Secondary Sequence Structure Requirements for Recognition and Discrimination of Target RNAs by Pseudomonas aeruginosa RsmA and RsmF. Journal of Bacteriology, 2016, 198, 2458-2469.	2.2	46
29	Structural divergence creates new functional features in alphavirus genomes. Nucleic Acids Research, 2018, 46, 3657-3670.	14.5	45
30	Detecting riboSNitches with RNA folding algorithms: a genome-wide benchmark. Nucleic Acids Research, 2015, 43, 1859-1868.	14.5	43
31	The potential of the <scp>riboSNitch</scp> inÂpersonalized medicine. Wiley Interdisciplinary Reviews RNA, 2015, 6, 517-532.	6.4	42
32	Water adsorption in carbons described by the dubinin–astakhov and dubinin–serpinski equations. Journal of the Chemical Society, Faraday Transactions, 1994, 90, 3689-3691.	1.7	41
33	Transcending the prediction paradigm: novel applications of <scp>SHAPE</scp> to <scp>RNA</scp> function and evolution. Wiley Interdisciplinary Reviews RNA, 2017, 8, e1374.	6.4	41
34	Ligand Specificity Modulated by Prolyl Imide Bond Cis/Trans Isomerization in the Itk SH2 Domain:Â A Quantitative NMR Study. Journal of the American Chemical Society, 2003, 125, 15706-15707.	13.7	40
35	Evolutionary Evidence for Alternative Structure in RNA Sequence Co-variation. PLoS Computational Biology, 2013, 9, e1003152.	3.2	40
36	Strategies for Articulated Multibody-Based Adaptive Coarse Grain Simulation of RNA. Methods in Enzymology, 2011, 487, 73-98.	1.0	39

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37	The Effects of Rare <i>SERPINA1</i> Variants on Lung Function and Emphysema in SPIROMICS. American Journal of Respiratory and Critical Care Medicine, 2020, 201, 540-554.	5.6	38
38	Comparative Visualization of the RNA Suboptimal Conformational Ensemble InÂVivo. Biophysical Journal, 2017, 113, 290-301.	0.5	35
39	To Knot or Not to Knot: Multiple Conformations of the SARS-CoV-2 Frameshifting RNA Element. Journal of the American Chemical Society, 2021, 143, 11404-11422.	13.7	35
40	Single Molecule Cluster Analysis dissects splicing pathway conformational dynamics. Nature Methods, 2015, 12, 1077-1084.	19.0	34
41	Determinants of Intra versus Intermolecular Self-association Within the Regulatory Domains of Rlk and Itk. Journal of Molecular Biology, 2003, 329, 1011-1020.	4.2	31
42	On the characterization of carbon blacks by various techniques. Carbon, 1994, 32, 1359-1362.	10.3	30
43	Automated docking of maltose, 2-deoxymaltose, and maltotetraose into the soybean β-amylase active site. , 1999, 37, 166-175.		30
44	Competing modes of self-association in the regulatory domains of Bruton's tyrosine kinase: Intramolecular contact versus asymmetric homodimerization. Protein Science, 2002, 11, 36-57.	7.6	30
45	Sharing and archiving nucleic acid structure mapping data. Rna, 2011, 17, 1204-1212.	3.5	28
46	A unified analytic framework for prioritization of non-coding variants of uncertain significance in heritable breast and ovarian cancer. BMC Medical Genomics, 2016, 9, 19.	1.5	28
47	Automated docking of ?-(1?4)- and ?-(1?6)-linked glucosyl trisaccharides and maltopentaose into the soybean ?-amylase active site. , 2000, 40, 299-309.		25
48	A pipeline for computational design of novel RNA-like topologies. Nucleic Acids Research, 2018, 46, 7040-7051.	14.5	25
49	Competing modes of selfâ€association in the regulatory domains of Bruton's tyrosine kinase: Intramolecular contact versus asymmetric homodimerization. Protein Science, 2002, 11, 36-57.	7.6	24
50	Direct Mapping of Higher-Order RNA Interactions by SHAPE-JuMP. Biochemistry, 2021, 60, 1971-1982.	2.5	24
51	Using SHAPE-MaP To Model RNA Secondary Structure and Identify 3′UTR Variation in Chikungunya Virus. Journal of Virology, 2020, 94, .	3.4	22
52	RNA molecules with conserved catalytic cores but variable peripheries fold along unique energetically optimized pathways. Rna, 2011, 17, 1589-1603.	3.5	21
53	Classification of RNA structure change by â€~gazing' at experimental data. Bioinformatics, 2017, 33, 1647-1655.	4.1	20
54	Allele-specific SHAPE-MaP assessment of the effects of somatic variation and protein binding on mRNA structure. Rna, 2018, 24, 513-528.	3.5	20

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55	Arg343 in human surfactant protein D governs discrimination between glucose and N-acetylglucosamine ligands. Glycobiology, 2004, 14, 693-700.	2.5	19
56	Coplanar and coaxial orientations of RNA bases and helices. Rna, 2007, 13, 643-650.	3.5	19
57	Increased Transcript Complexity in Genes Associated with Chronic Obstructive Pulmonary Disease. PLoS ONE, 2015, 10, e0140885.	2.5	18
58	A novel application of pattern recognition for accurate SNP and indel discovery from high-throughput data: Targeted resequencing of the glucocorticoid receptor co-chaperone FKBP5 in a Caucasian population. Molecular Genetics and Metabolism, 2011, 104, 457-469.	1.1	16
59	Informatics challenges in structured RNA. Briefings in Bioinformatics, 2007, 8, 294-303.	6.5	13
60	A second layer of information in RNA. Nature, 2014, 505, 621-622.	27.8	13
61	Visualizing complexes of phospholipids with Streptomyces phospholipase D by automated docking. Proteins: Structure, Function and Bioinformatics, 2004, 57, 27-35.	2.6	12
62	Understanding the Role of Three-Dimensional Topology in Determining theÂFolding Intermediates of Group I Introns. Biophysical Journal, 2013, 104, 1326-1337.	0.5	11
63	Distinct responses to rare codons in select Drosophila tissues. ELife, 2022, 11, .	6.0	11
64	Exhaustive Enumeration of Kinetic Model Topologies for the Analysis of Time-Resolved RNA Folding. Algorithms, 2009, 2, 200-214.	2.1	10
65	Impact of RNA structure on ZFP36L2 interaction with luteinizing hormone receptor mRNA. Rna, 2017, 23, 1209-1223.	3.5	10
66	Disease-associated human genetic variation through the lens of precursor and mature RNA structure. Human Genetics, 2022, 141, 1659-1672.	3.8	10
67	<i>In vivo</i> architecture of the telomerase RNA catalytic core in <i>Trypanosoma brucei</i> . Nucleic Acids Research, 2021, 49, 12445-12466.	14.5	8
68	Mapping the Kinetic Barriers of a Large RNA Molecule's Folding Landscape. PLoS ONE, 2014, 9, e85041.	2.5	7
69	Structure-Function Model for Kissing Loop Interactions That Initiate Dimerization of Ty1 RNA. Viruses, 2017, 9, 93.	3.3	7
70	Quantitative prediction of variant effects on alternative splicing in MAPT using endogenous pre-messenger RNA structure probing. ELife, 0, 11, .	6.0	6
71	Computational functional genomics. IEEE Signal Processing Magazine, 2004, 21, 62-69.	5.6	5
72	A novel algorithm for ranking RNA structure candidates. Biophysical Journal, 2022, 121, 7-10.	0.5	5

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73	Rapid Quantification and Analysis of Kinetic •OH Radical Footprinting Data Using SAFA. Methods in Enzymology, 2009, 468, 47-66.	1.0	4
74	Cigarette smoking-associated isoform switching and 3′ UTR lengthening via alternative polyadenylation. Genomics, 2021, 113, 4184-4195.	2.9	3
75	Alternative poly-adenylation modulates α1-antitrypsin expression in chronic obstructive pulmonary disease. PLoS Genetics, 2021, 17, e1009912.	3.5	3
76	Identifying proximal RNA interactions from cDNA-encoded crosslinks with ShapeJumper. PLoS Computational Biology, 2021, 17, e1009632.	3.2	3
77	Sequence and tissue targeting specificity of ZFP36L2 reveals <i>Elavl2</i> as a novel target with co-regulation potential. Nucleic Acids Research, 2022, , .	14.5	3
78	On the characterization of industrial carbon blacks by physico-chemical and by empirical parameters. Carbon, 1996, 34, 135-137.	10.3	2
79	Membrane RNAs in bacteria. Molecular Microbiology, 2011, 79, 1-2.	2.5	2
80	Meeting report of the RNA Ontology Consortium January 8-9, 2011. Standards in Genomic Sciences, 2011, 4, 252-256.	1.5	1
81	A clear path to RNA catalysis. Nature Chemical Biology, 2015, 11, 906-908.	8.0	1
82	Towards an understanding of RNA structural modalities: a riboswitch case study. Computational and Mathematical Biophysics, 2019, 7, 48-63.	1.1	1
83	Selecting against accidental RNA interactions. ELife, 2016, 5, .	6.0	1
84	Docking Carbohydrates to Proteins: Empirical Free Energy Functions. ACS Symposium Series, 2006, , 258-270.	0.5	0
85	On Adaptivity in Coarse Grain Molecular Dynamics. , 2009, , .		0
86	Modeling RNA Folding Pathways and Intermediates Using Time-Resolved Hydroxyl Radical Footprinting Data. Nucleic Acids and Molecular Biology, 2012, , 319-334.	0.2	0
87	REGULATORY RNA. , 2016, , .		0
88	The role of RNA-RNA interactions in the assembly and reassortment of influenza A viruses. Access Microbiology, 2019, 1, .	0.5	0