

Peter F F Stadler

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

654
papers

43,000
citations

88
h-index

196
g-index

732
ext. papers

51,467
ext. citations

5.5
avg, IF

7.85
L-index

#	Paper	IF	Citations
654	Identification and analysis of functional elements in 1% of the human genome by the ENCODE pilot project. <i>Nature</i> , 2007 , 447, 799-816	50.4	4121
653	MITOS: improved de novo metazoan mitochondrial genome annotation. <i>Molecular Phylogenetics and Evolution</i> , 2013 , 69, 313-9	4.1	2362
652	ViennaRNA Package 2.0. <i>Algorithms for Molecular Biology</i> , 2011 , 6, 26	1.8	2351
651	RNA maps reveal new RNA classes and a possible function for pervasive transcription. <i>Science</i> , 2007 , 316, 1484-8	33.3	1903
650	Fast folding and comparison of RNA secondary structures. <i>Monatshefte für Chemie</i> , 1994 , 125, 167-188	1.4	1541
649	Analyses of pig genomes provide insight into porcine demography and evolution. <i>Nature</i> , 2012 , 491, 393-8	50.4	928
648	The primary transcriptome of the major human pathogen <i>Helicobacter pylori</i> . <i>Nature</i> , 2010 , 464, 250-5	50.4	891
647	Pan-cancer analysis of whole genomes. <i>Nature</i> , 2020 , 578, 82-93	50.4	840
646	Proteinortho: detection of (co-)orthologs in large-scale analysis. <i>BMC Bioinformatics</i> , 2011 , 12, 124	3.6	720
645	Comparative genomics reveals insights into avian genome evolution and adaptation. <i>Science</i> , 2014 , 346, 1311-20	33.3	628
644	tRNAdb 2009: compilation of tRNA sequences and tRNA genes. <i>Nucleic Acids Research</i> , 2009 , 37, D159-62	10.1	592
643	Interleukin-6 dependent survival of multiple myeloma cells involves the Stat3-mediated induction of microRNA-21 through a highly conserved enhancer. <i>Blood</i> , 2007 , 110, 1330-3	2.2	535
642	Fast and reliable prediction of noncoding RNAs. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005 , 102, 2454-9	11.5	518
641	Secondary structure prediction for aligned RNA sequences. <i>Journal of Molecular Biology</i> , 2002 , 319, 1059-66	5.6	490
640	The African coelacanth genome provides insights into tetrapod evolution. <i>Nature</i> , 2013 , 496, 311-6	50.4	488
639	Molecular evolution of a microRNA cluster. <i>Journal of Molecular Biology</i> , 2004 , 339, 327-35	6.5	483
638	Smoothness within ruggedness: the role of neutrality in adaptation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1996 , 93, 397-401	11.5	423

637	RNAalifold: improved consensus structure prediction for RNA alignments. <i>BMC Bioinformatics</i> , 2008 , 9, 474	3.6	390
636	Fast mapping of short sequences with mismatches, insertions and deletions using index structures. <i>PLoS Computational Biology</i> , 2009 , 5, e1000502	5	384
635	The genome of the recently domesticated crop plant sugar beet (<i>Beta vulgaris</i>). <i>Nature</i> , 2014 , 505, 546-504	30.4	365
634	Inferring noncoding RNA families and classes by means of genome-scale structure-based clustering. <i>PLoS Computational Biology</i> , 2007 , 3, e65	5	355
633	The spotted gar genome illuminates vertebrate evolution and facilitates human-teleost comparisons. <i>Nature Genetics</i> , 2016 , 48, 427-37	36.3	352
632	The reality of pervasive transcription. <i>PLoS Biology</i> , 2011 , 9, e1000625; discussion e1001102	9.7	325
631	Mapping of conserved RNA secondary structures predicts thousands of functional noncoding RNAs in the human genome. <i>Nature Biotechnology</i> , 2005 , 23, 1383-90	44.5	324
630	Dual RNA-seq unveils noncoding RNA functions in host-pathogen interactions. <i>Nature</i> , 2016 , 529, 496-504	30.4	318
629	Recurrent mutation of the ID3 gene in Burkitt lymphoma identified by integrated genome, exome and transcriptome sequencing. <i>Nature Genetics</i> , 2012 , 44, 1316-20	36.3	317
628	Multi-platform next-generation sequencing of the domestic turkey (<i>Meleagris gallopavo</i>): genome assembly and analysis. <i>PLoS Biology</i> , 2010 , 8, e1000475	9.7	311
627	Alu elements in ANRIL non-coding RNA at chromosome 9p21 modulate atherogenic cell functions through trans-regulation of gene networks. <i>PLoS Genetics</i> , 2013 , 9, e1003588	6	272
626	The expansion of the metazoan microRNA repertoire. <i>BMC Genomics</i> , 2006 , 7, 25	4.5	272
625	Thermodynamics of RNA-RNA binding. <i>Bioinformatics</i> , 2006 , 22, 1177-82	7.2	272
624	Evolution. Transitions from nonliving to living matter. <i>Science</i> , 2004 , 303, 963-5	33.3	253
623	The duck genome and transcriptome provide insight into an avian influenza virus reservoir species. <i>Nature Genetics</i> , 2013 , 45, 776-783	36.3	240
622	Statistics of RNA secondary structures. <i>Biopolymers</i> , 1993 , 33, 1389-404	2.2	238
621	Centers of complex networks. <i>Journal of Theoretical Biology</i> , 2003 , 223, 45-53	2.3	237
620	LocARNA-P: accurate boundary prediction and improved detection of structural RNAs. <i>Rna</i> , 2012 , 18, 900-14	5.8	221

619	The topology of the possible: formal spaces underlying patterns of evolutionary change. <i>Journal of Theoretical Biology</i> , 2001 , 213, 241-74	2.3	203
618	Sound-meaning association biases evidenced across thousands of languages. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 10818-23	11.5	194
617	A multi-split mapping algorithm for circular RNA, splicing, trans-splicing and fusion detection. <i>Genome Biology</i> , 2014 , 15, R34	18.3	188
616	CREx: inferring genomic rearrangements based on common intervals. <i>Bioinformatics</i> , 2007 , 23, 2957-8	7.2	188
615	Partition function and base pairing probabilities of RNA heterodimers. <i>Algorithms for Molecular Biology</i> , 2006 , 1, 3	1.8	183
614	Landscapes and their correlation functions. <i>Journal of Mathematical Chemistry</i> , 1996 , 20, 1-45	2.1	182
613	miRNAMap: genomic maps of microRNA genes and their target genes in mammalian genomes. <i>Nucleic Acids Research</i> , 2006 , 34, D135-9	20.1	176
612	Alignment of RNA base pairing probability matrices. <i>Bioinformatics</i> , 2004 , 20, 2222-7	7.2	176
611	RNA folding and combinatorial landscapes. <i>Physical Review E</i> , 1993 , 47, 2083-2099	2.4	175
610	Generic properties of combinatorial maps: neutral networks of RNA secondary structures. <i>Bulletin of Mathematical Biology</i> , 1997 , 59, 339-97	2.1	174
609	Ecological plant epigenetics: Evidence from model and non-model species, and the way forward. <i>Ecology Letters</i> , 2017 , 20, 1576-1590	10	165
608	Local RNA base pairing probabilities in large sequences. <i>Bioinformatics</i> , 2006 , 22, 614-5	7.2	164
607	Combinatorial Landscapes. <i>SIAM Review</i> , 2002 , 44, 3-54	7.4	162
606	Spontaneous and engineered deletions in the 3' noncoding region of tick-borne encephalitis virus: construction of highly attenuated mutants of a flavivirus. <i>Journal of Virology</i> , 1998 , 72, 2132-40	6.6	161
605	metilene: fast and sensitive calling of differentially methylated regions from bisulfite sequencing data. <i>Genome Research</i> , 2016 , 26, 256-62	9.7	159
604	The "fish-specific" Hox cluster duplication is coincident with the origin of teleosts. <i>Molecular Biology and Evolution</i> , 2006 , 23, 121-36	8.3	156
603	Hairpins in a Haystack: recognizing microRNA precursors in comparative genomics data. <i>Bioinformatics</i> , 2006 , 22, e197-202	7.2	155
602	Genetic aspects of mitochondrial genome evolution. <i>Molecular Phylogenetics and Evolution</i> , 2013 , 69, 328-38	4.1	154

601	Improved systematic tRNA gene annotation allows new insights into the evolution of mitochondrial tRNA structures and into the mechanisms of mitochondrial genome rearrangements. <i>Nucleic Acids Research</i> , 2012 , 40, 2833-45	20.1	145
600	Conserved RNA secondary structures in Flaviviridae genomes. <i>Journal of General Virology</i> , 2004 , 85, 1113-1124	14.2	142
599	An updated human snoRNAome. <i>Nucleic Acids Research</i> , 2016 , 44, 5068-82	20.1	141
598	Memory efficient folding algorithms for circular RNA secondary structures. <i>Bioinformatics</i> , 2006 , 22, 1172-6	7.2	141
597	A comprehensive analysis of bilaterian mitochondrial genomes and phylogeny. <i>Molecular Phylogenetics and Evolution</i> , 2013 , 69, 352-64	4.1	140
596	Small ncRNA transcriptome analysis from <i>Aspergillus fumigatus</i> suggests a novel mechanism for regulation of protein synthesis. <i>Nucleic Acids Research</i> , 2008 , 36, 2677-89	20.1	140
595	De novo design of a synthetic riboswitch that regulates transcription termination. <i>Nucleic Acids Research</i> , 2013 , 41, 2541-51	20.1	131
594	RNAcode: robust discrimination of coding and noncoding regions in comparative sequence data. <i>Rna</i> , 2011 , 17, 578-94	5.8	131
593	Structured RNAs in the ENCODE selected regions of the human genome. <i>Genome Research</i> , 2007 , 17, 852-64	9.7	131
592	RNAz 2.0: improved noncoding RNA detection. <i>Pacific Symposium on Biocomputing Pacific Symposium on Biocomputing</i> , 2010 , 69-79	1.3	129
591	Widespread purifying selection on RNA structure in mammals. <i>Nucleic Acids Research</i> , 2013 , 41, 8220-36	20.1	126
590	Evolution of microRNAs located within Hox gene clusters. <i>Journal of Experimental Zoology Part B: Molecular and Developmental Evolution</i> , 2005 , 304, 75-85	1.8	126
589	Prediction of locally stable RNA secondary structures for genome-wide surveys. <i>Bioinformatics</i> , 2004 , 20, 186-90	7.2	125
588	RNAcentral: a comprehensive database of non-coding RNA sequences. <i>Nucleic Acids Research</i> , 2017 , 45, D128-D134	20.1	119
587	Genomic and morphological evidence converge to resolve the enigma of Strepsiptera. <i>Current Biology</i> , 2012 , 22, 1309-13	6.3	117
586	Design of multistable RNA molecules. <i>Rna</i> , 2001 , 7, 254-65	5.8	113
585	SnoReport: computational identification of snoRNAs with unknown targets. <i>Bioinformatics</i> , 2008 , 24, 158-64	7.2	110
584	Evolution of vault RNAs. <i>Molecular Biology and Evolution</i> , 2009 , 26, 1975-91	8.3	109

583	Evidence for human microRNA-offset RNAs in small RNA sequencing data. <i>Bioinformatics</i> , 2009 , 25, 2298-301	7.2	106
582	Barrier Trees of Degenerate Landscapes. <i>Zeitschrift Fur Physikalische Chemie</i> , 2002 , 216,	3.1	106
581	Structure of transfer RNAs: similarity and variability. <i>Wiley Interdisciplinary Reviews RNA</i> , 2012 , 3, 37-61	9.3	105
580	Automatic detection of conserved RNA structure elements in complete RNA virus genomes. <i>Nucleic Acids Research</i> , 1998 , 26, 3825-36	20.1	105
579	DNA methylome analysis in Burkitt and follicular lymphomas identifies differentially methylated regions linked to somatic mutation and transcriptional control. <i>Nature Genetics</i> , 2015 , 47, 1316-1325	36.3	101
578	The landscape of the traveling salesman problem. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1992 , 161, 337-344	2.3	98
577	Analysis of RNA sequence structure maps by exhaustive enumeration I. Neutral networks. <i>Monatshefte Für Chemie</i> , 1996 , 127, 355-374	1.4	96
576	Accurate and efficient reconstruction of deep phylogenies from structured RNAs. <i>Nucleic Acids Research</i> , 2009 , 37, 6184-93	20.1	95
575	RNApredator: fast accessibility-based prediction of sRNA targets. <i>Nucleic Acids Research</i> , 2011 , 39, W149-54	2.54	95
574	Noisy: identification of problematic columns in multiple sequence alignments. <i>Algorithms for Molecular Biology</i> , 2008 , 3, 7	1.8	95
573	Combinatorics of RNA secondary structures. <i>Discrete Applied Mathematics</i> , 1998 , 88, 207-237	1	94
572	HLA-DRB1*0401 and HLA-DRB1*0408 are strongly associated with the development of antibodies against interferon-beta therapy in multiple sclerosis. <i>American Journal of Human Genetics</i> , 2008 , 83, 219-27	11	92
571	The RNAsnp web server: predicting SNP effects on local RNA secondary structure. <i>Nucleic Acids Research</i> , 2013 , 41, W475-9	20.1	91
570	RNAsnp: efficient detection of local RNA secondary structure changes induced by SNPs. <i>Human Mutation</i> , 2013 , 34, 546-56	4.7	90
569	Topology and prediction of RNA pseudoknots. <i>Bioinformatics</i> , 2011 , 27, 1076-85	7.2	90
568	Neutral networks in protein space: a computational study based on knowledge-based potentials of mean force. <i>Folding & Design</i> , 1997 , 2, 261-9		90
567	RNAcentral: a hub of information for non-coding RNA sequences. <i>Nucleic Acids Research</i> , 2019 , 47, D221-D29	10.29	90
566	Detection of small RNAs in <i>Pseudomonas aeruginosa</i> by RNomics and structure-based bioinformatic tools. <i>Microbiology (United Kingdom)</i> , 2008 , 154, 3175-3187	2.9	88

565	Partition function and base pairing probabilities for RNA-RNA interaction prediction. <i>Bioinformatics</i> , 2009 , 25, 2646-54	7.2	84
564	RNA folding with soft constraints: reconciliation of probing data and thermodynamic secondary structure prediction. <i>Nucleic Acids Research</i> , 2012 , 40, 4261-72	20.1	84
563	Genome-wide transcriptome analysis of the plant pathogen <i>Xanthomonas</i> identifies sRNAs with putative virulence functions. <i>Nucleic Acids Research</i> , 2012 , 40, 2020-31	20.1	81
562	Efficient computation of RNA folding dynamics. <i>Journal of Physics A</i> , 2004 , 37, 4731-4741		81
561	HLA-DRB10401 and HLA-DRB10408 Are Strongly Associated with the Development of Antibodies against Interferon- β Therapy in Multiple Sclerosis. <i>American Journal of Human Genetics</i> , 2008 , 83, 541	11	78
560	Bichir HoxA cluster sequence reveals surprising trends in ray-finned fish genomic evolution. <i>Genome Research</i> , 2004 , 14, 11-7	9.7	78
559	Discrete nodal domain theorems. <i>Linear Algebra and Its Applications</i> , 2001 , 336, 51-60	0.9	78
558	Laplacian Eigenvectors of Graphs. <i>Lecture Notes in Mathematics</i> , 2007 ,	0.4	78
557	Evolution of the let-7 microRNA family. <i>RNA Biology</i> , 2012 , 9, 231-41	4.8	77
556	Neutrality in fitness landscapes. <i>Applied Mathematics and Computation</i> , 2001 , 117, 321-350	2.7	76
555	MINCR is a MYC-induced lncRNA able to modulate MYC's transcriptional network in Burkitt lymphoma cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, E5261-70	11.5	75
554	Analysis of RNA sequence structure maps by exhaustive enumeration II. Structures of neutral networks and shape space covering. <i>Monatshefte für Chemie</i> , 1996 , 127, 375-389	1.4	75
553	Fitness landscapes 2002 , 183-204		74
552	Protocells 2008 ,		72
551	Evolution of spliceosomal snRNA genes in metazoan animals. <i>Journal of Molecular Evolution</i> , 2008 , 67, 594-607	3.1	71
550	Conserved RNA secondary structures in Picornaviridae genomes. <i>Nucleic Acids Research</i> , 2001 , 29, 5079-89	20.1	71
549	Algorithm independent properties of RNA secondary structure predictions. <i>European Biophysics Journal</i> , 1996 , 25, 115-130	1.9	71
548	Improved annotation of protein-coding genes boundaries in metazoan mitochondrial genomes. <i>Nucleic Acids Research</i> , 2019 , 47, 10543-10552	20.1	70

547	Evidence for independent Hox gene duplications in the hagfish lineage: a PCR-based gene inventory of <i>Eptatretus stoutii</i> . <i>Molecular Phylogenetics and Evolution</i> , 2004 , 32, 686-94	4.1	70
546	FRANz: reconstruction of wild multi-generation pedigrees. <i>Bioinformatics</i> , 2009 , 25, 2134-9	7.2	69
545	Structure and function of the smallest vertebrate telomerase RNA from teleost fish. <i>Journal of Biological Chemistry</i> , 2008 , 283, 2049-59	5.4	69
544	Independent Hox-cluster duplications in lampreys. <i>The Journal of Experimental Zoology</i> , 2003 , 299, 18-25		69
543	DARIO: a ncRNA detection and analysis tool for next-generation sequencing experiments. <i>Nucleic Acids Research</i> , 2011 , 39, W112-7	20.1	68
542	The coilin interactome identifies hundreds of small noncoding RNAs that traffic through Cajal bodies. <i>Molecular Cell</i> , 2014 , 56, 389-399	17.6	67
541	Comparison of splice sites reveals that long noncoding RNAs are evolutionarily well conserved. <i>Rna</i> , 2015 , 21, 801-12	5.8	66
540	Folding kinetics of large RNAs. <i>Journal of Molecular Biology</i> , 2008 , 379, 160-73	6.5	66
539	RNA structures with pseudo-knots: graph-theoretical, combinatorial, and statistical properties. <i>Bulletin of Mathematical Biology</i> , 1999 , 61, 437-67	2.1	65
538	Changes of bivalent chromatin coincide with increased expression of developmental genes in cancer. <i>Scientific Reports</i> , 2016 , 6, 37393	4.9	64
537	Lacking alignments? The next-generation sequencing mapper segemehl revisited. <i>Bioinformatics</i> , 2014 , 30, 1837-43	7.2	63
536	Orthology detection combining clustering and synteny for very large datasets. <i>PLoS ONE</i> , 2014 , 9, e105015	3.5	62
535	A graph-based toy model of chemistry. <i>Journal of Chemical Information and Computer Sciences</i> , 2003 , 43, 1085-93		62
534	Landscapes: complex optimization problems and biopolymer structures. <i>Computers & Chemistry</i> , 1994 , 18, 295-324		62
533	Phylogenomics with paralogs. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 2058-63	11.5	60
532	The CHR site: definition and genome-wide identification of a cell cycle transcriptional element. <i>Nucleic Acids Research</i> , 2014 , 42, 10331-50	20.1	60
531	The common ancestral core of vertebrate and fungal telomerase RNAs. <i>Nucleic Acids Research</i> , 2013 , 41, 450-62	20.1	60
530	Full characterization of a strange attractor. <i>Physica D: Nonlinear Phenomena</i> , 1991 , 48, 65-90	3.3	60

529	Mutation in autocatalytic reaction networks. An analysis based on perturbation theory. <i>Journal of Mathematical Biology</i> , 1992 , 30, 597-631	2	60
528	Evolution of mitochondrial gene orders in echinoderms. <i>Molecular Phylogenetics and Evolution</i> , 2008 , 47, 855-64	4.1	59
527	Evolutionary patterns of non-coding RNAs. <i>Theory in Biosciences</i> , 2005 , 123, 301-69	1.3	59
526	Evolution of 7SK RNA and its protein partners in metazoa. <i>Molecular Biology and Evolution</i> , 2009 , 26, 2821-30	8.3	58
525	Third Report on Chicken Genes and Chromosomes 2015. <i>Cytogenetic and Genome Research</i> , 2015 , 145, 78-179	1.9	57
524	Variations on RNA folding and alignment: lessons from Benasque. <i>Journal of Mathematical Biology</i> , 2008 , 56, 129-44	2	57
523	Viral RNA and evolved mutational robustness 1999 , 285, 119-127		57
522	Temperature-responsive in vitro RNA structurome of <i>Yersinia pseudotuberculosis</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 7237-42	11.5	55
521	Complete HOX cluster characterization of the coelacanth provides further evidence for slow evolution of its genome. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 3622-7	11.5	55
520	Mitochondrial genome evolution in Ophiuroidea, Echinoidea, and Holothuroidea: insights in phylogenetic relationships of Echinodermata. <i>Molecular Phylogenetics and Evolution</i> , 2010 , 56, 201-11	4.1	55
519	RNAcentral: A vision for an international database of RNA sequences. <i>Rna</i> , 2011 , 17, 1941-6	5.8	54
518	Algebraic theory of recombination spaces. <i>Evolutionary Computation</i> , 1997 , 5, 241-75	4.3	54
517	RNA folding with hard and soft constraints. <i>Algorithms for Molecular Biology</i> , 2016 , 11, 8	1.8	53
516	Orthology relations, symbolic ultrametrics, and cographs. <i>Journal of Mathematical Biology</i> , 2013 , 66, 399-420	2	53
515	Target prediction and a statistical sampling algorithm for RNA-RNA interaction. <i>Bioinformatics</i> , 2010 , 26, 175-81	7.2	53
514	Quasi-independence, homology and the unity of type: a topological theory of characters. <i>Journal of Theoretical Biology</i> , 2003 , 220, 505-27	2.3	53
513	RELEVANT CYCLES IN CHEMICAL REACTION NETWORKS. <i>International Journal of Modeling, Simulation, and Scientific Computing</i> , 2001 , 04, 207-226	0.8	53
512	Kiwi genome provides insights into evolution of a nocturnal lifestyle. <i>Genome Biology</i> , 2015 , 16, 147	18.3	52

511	Non-coding RNA annotation of the genome of <i>Trichoplax adhaerens</i> . <i>Nucleic Acids Research</i> , 2009 , 37, 1602-15	20.1	52
510	Evolution of the vertebrate Y RNA cluster. <i>Theory in Biosciences</i> , 2007 , 126, 9-14	1.3	51
509	Effect of pH on growth, cell volume, and production of freshwater ciliates, and implications for their distribution. <i>Limnology and Oceanography</i> , 2006 , 51, 1708-1715	4.8	51
508	RNA multi-structure landscapes. A study based on temperature dependent partition functions. <i>European Biophysics Journal</i> , 1993 , 22, 13-24	1.9	51
507	SHAPE directed RNA folding. <i>Bioinformatics</i> , 2016 , 32, 145-7	7.2	50
506	Random field models for fitness landscapes. <i>Journal of Mathematical Biology</i> , 1999 , 38, 435-478	2	50
505	Genomic and transcriptomic changes complement each other in the pathogenesis of sporadic Burkitt lymphoma. <i>Nature Communications</i> , 2019 , 10, 1459	17.4	49
504	Dicer-processed small RNAs: rules and exceptions. <i>Journal of Experimental Zoology Part B: Molecular and Developmental Evolution</i> , 2013 , 320, 35-46	1.8	49
503	Genomic organization of eukaryotic tRNAs. <i>BMC Genomics</i> , 2010 , 11, 270	4.5	49
502	Random catalytic reaction networks. <i>Physica D: Nonlinear Phenomena</i> , 1993 , 63, 378-392	3.3	49
501	Solvent exposure imparts similar selective pressures across a range of yeast proteins. <i>Molecular Biology and Evolution</i> , 2009 , 26, 1155-61	8.3	47
500	Homology-based annotation of non-coding RNAs in the genomes of <i>Schistosoma mansoni</i> and <i>Schistosoma japonicum</i> . <i>BMC Genomics</i> , 2009 , 10, 464	4.5	47
499	Generalized topological spaces in evolutionary theory and combinatorial chemistry. <i>Journal of Chemical Information and Computer Sciences</i> , 2002 , 42, 577-85		47
498	RNAZ 2.0: 2009 , 69-79		46
497	A folding algorithm for extended RNA secondary structures. <i>Bioinformatics</i> , 2011 , 27, i129-36	7.2	46
496	Structural profiles of human miRNA families from pairwise clustering. <i>Bioinformatics</i> , 2009 , 25, 291-4	7.2	45
495	Multiple sequence alignment with user-defined anchor points. <i>Algorithms for Molecular Biology</i> , 2006 , 1, 6	1.8	45
494	Surveying phylogenetic footprints in large gene clusters: applications to Hox cluster duplications. <i>Molecular Phylogenetics and Evolution</i> , 2004 , 31, 581-604	4.1	45

493	Exploring protein sequence space using knowledge-based potentials. <i>Journal of Theoretical Biology</i> , 2001 , 212, 35-46	2.3	45
492	Traces of post-transcriptional RNA modifications in deep sequencing data. <i>Biological Chemistry</i> , 2011 , 392, 305-13	4.5	44
491	Armless mitochondrial tRNAs in Enoplea (Nematoda). <i>RNA Biology</i> , 2012 , 9, 1161-6	4.8	44
490	RNA structures and folding: from conventional to new issues in structure predictions. <i>Current Opinion in Structural Biology</i> , 1997 , 7, 229-35	8.1	44
489	The amphioxus Hox cluster: characterization, comparative genomics, and evolution. <i>Journal of Experimental Zoology Part B: Molecular and Developmental Evolution</i> , 2008 , 310, 465-77	1.8	44
488	The effect of RNA secondary structures on RNA-ligand binding and the modifier RNA mechanism: a quantitative model. <i>Gene</i> , 2005 , 345, 3-12	3.8	44
487	In vitro iCLIP-based modeling uncovers how the splicing factor U2AF2 relies on regulation by cofactors. <i>Genome Research</i> , 2018 , 28, 699-713	9.7	43
486	Biological evidence for the world's smallest tRNAs. <i>Biochimie</i> , 2014 , 100, 151-8	4.6	43
485	Why some fitness landscapes are fractal. <i>Journal of Theoretical Biology</i> , 1993 , 163, 255-75	2.3	43
484	BarMap: RNA folding on dynamic energy landscapes. <i>Rna</i> , 2010 , 16, 1308-16	5.8	42
483	Sensitivity of Microarray Oligonucleotide Probes: Variability and Effect of Base Composition. <i>Journal of Physical Chemistry B</i> , 2004 , 108, 18003-18014	3.4	42
482	Automatic detection of conserved base pairing patterns in RNA virus genomes. <i>Computers & Chemistry</i> , 1999 , 23, 401-14		42
481	Rlsearch2: suffix array-based large-scale prediction of RNA-RNA interactions and siRNA off-targets. <i>Nucleic Acids Research</i> , 2017 , 45, e60	20.1	41
480	RNAsoop: efficient target prediction for H/ACA snoRNAs. <i>Bioinformatics</i> , 2010 , 26, 610-6	7.2	41
479	A guide to naming human non-coding RNA genes. <i>EMBO Journal</i> , 2020 , 39, e103777	13	39
478	Fast accessibility-based prediction of RNA-RNA interactions. <i>Bioinformatics</i> , 2011 , 27, 1934-40	7.2	39
477	Arthropod 7SK RNA. <i>Molecular Biology and Evolution</i> , 2008 , 25, 1923-30	8.3	39
476	TSSAR: TSS annotation regime for dRNA-seq data. <i>BMC Bioinformatics</i> , 2014 , 15, 89	3.6	38

475	Recent advances in RNA folding. <i>Journal of Biotechnology</i> , 2017 , 261, 97-104	3.7	38
474	Design of Artificial Riboswitches as Biosensors. <i>Sensors</i> , 2017 , 17,	3.8	38
473	The challenges and scope of theoretical biology. <i>Journal of Theoretical Biology</i> , 2011 , 276, 269-76	2.3	38
472	The tedious task of finding homologous noncoding RNA genes. <i>Rna</i> , 2009 , 15, 2075-82	5.8	38
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