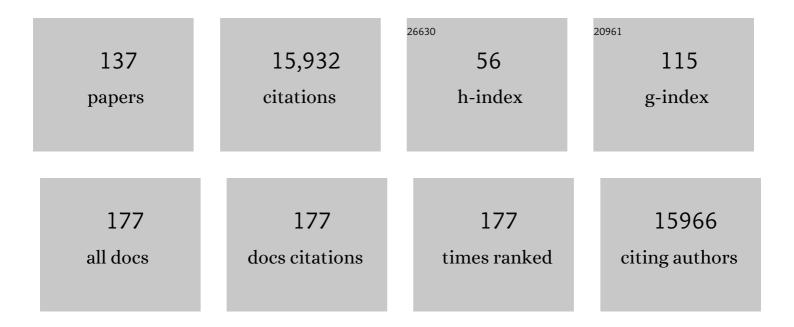
List of Publications by Year in descending order

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| # | Article | IF | CITATIONS |
|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 1 | Combinatorial optimization of mRNA structure, stability, and translation for RNA-based therapeutics. Nature Communications, 2022, 13, 1536. | 12.8 | 93 |
| 2 | Crowdsourced RNA design discovers diverse, reversible, efficient, self-contained molecular switches. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, e2112979119. | 7.1 | 19 |
| 3 | Three-dimensional structure-guided evolution of a ribosome with tethered subunits. Nature Chemical Biology, 2022, 18, 990-998. | 8.0 | 7 |
| 4 | <i>De novo</i> 3D models of SARS-CoV-2 RNA elements from consensus experimental secondary structures. Nucleic Acids Research, 2021, 49, 3092-3108. | 14.5 | 61 |
| 5 | Structure of human telomerase holoenzyme with bound telomeric DNA. Nature, 2021, 593, 449-453. | 27.8 | 106 |
| 6 | Learning cis-regulatory principles of ADAR-based RNA editing from CRISPR-mediated mutagenesis. Nature Communications, 2021, 12, 2165. | 12.8 | 9 |
| 7 | PyRosetta Jupyter Notebooks Teach Biomolecular Structure Prediction and Design. The Biophysicist, 2021, 2, 108-122. | 0.3 | 8 |
| 8 | Functional and structural basis of extreme conservation in vertebrate 5′ untranslated regions. Nature Genetics, 2021, 53, 729-741. | 21.4 | 17 |
| 9 | RNA structure: a renaissance begins?. Nature Methods, 2021, 18, 439-439. | 19.0 | 10 |
| 10 | Geometric deep learning of RNA structure. Science, 2021, 373, 1047-1051. | 12.6 | 190 |
| 11 | Cryo-EM and antisense targeting of the 28-kDa frameshift stimulation element from the SARS-CoV-2 RNA genome. Nature Structural and Molecular Biology, 2021, 28, 747-754. | 8.2 | 91 |
| 12 | Cryo-EM structures of full-length Tetrahymena ribozyme at 3.1ÂÃ resolution. Nature, 2021, 596, 603-607. | 27.8 | 59 |
| 13 | How to Kinetically Dissect an RNA Machine. Biochemistry, 2021, 60, 3485-3490. | 2.5 | 3 |
| 14 | Theoretical basis for stabilizing messenger RNA through secondary structure design. Nucleic Acids Research, 2021, 49, 10604-10617. | 14.5 | 67 |
| 15 | RiboDraw: semiautomated two-dimensional drawing of RNA tertiary structure diagrams. NAR Genomics and Bioinformatics, 2021, 3, lqab091. | 3.2 | 6 |
| 16 | Ensuring scientific reproducibility in bio-macromolecular modeling via extensive, automated benchmarks. Nature Communications, 2021, 12, 6947. | 12.8 | 16 |
| 17 | Folding heterogeneity in the essential human telomerase RNA three-way junction. Rna, 2020, 26, 1787-1800. | 3.5 | 14 |
| 18 | Macromolecular modeling and design in Rosetta: recent methods and frameworks. Nature Methods, 2020, 17, 665-680. | 19.0 | 513 |

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| 19 | RNA genome conservation and secondary structure in SARS-CoV-2 and SARS-related viruses: a first look. Rna, 2020, 26, 937-959. | 3.5 | 211 |
| 20 | Anomalous Reverse Transcription through Chemical Modifications in Polyadenosine Stretches. Biochemistry, 2020, 59, 2154-2170. | 2.5 | 8 |
| 21 | FARFAR2: Improved De Novo Rosetta Prediction of Complex Global RNA Folds. Structure, 2020, 28, 963-976.e6. | 3.3 | 134 |
| 22 | Transcription polymerase–catalyzed emergence of novel RNA replicons. Science, 2020, 368, . | 12.6 | 19 |
| 23 | Accelerated cryo-EM-guided determination of three-dimensional RNA-only structures. Nature Methods, 2020, 17, 699-707. | 19.0 | 119 |
| 24 | RNA-Puzzles Round IV: 3D structure predictions of four ribozymes and two aptamers. Rna, 2020, 26, 982-995. | 3.5 | 100 |
| 25 | A conserved RNA structural motif for organizing topology within picornaviral internal ribosome entry sites. Nature Communications, 2019, 10, 3629. | 12.8 | 15 |
| 26 | Computational design of three-dimensional RNA structure and function. Nature Nanotechnology, 2019, 14, 866-873. | 31.5 | 49 |
| 27 | Sequence-dependent RNA helix conformational preferences predictably impact tertiary structure formation. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 16847-16855. | 7.1 | 38 |
| 28 | Automated Design of Diverse Stand-Alone Riboswitches. ACS Synthetic Biology, 2019, 8, 1838-1846. | 3.8 | 34 |
| 29 | Scientific Discovery Games for Biomedical Research. Annual Review of Biomedical Data Science, 2019, 2, 253-279. | 6.5 | 13 |
| 30 | EternaBrain: Automated RNA design through move sets and strategies from an Internet-scale RNA videogame. PLoS Computational Biology, 2019, 15, e1007059. | 3.2 | 16 |
| 31 | RNA 3D structure prediction guided by independent folding of homologous sequences. BMC Bioinformatics, 2019, 20, 512. | 2.6 | 21 |
| 32 | A unified mechanism for intron and exon definition and back-splicing. Nature, 2019, 573, 375-380. | 27.8 | 114 |
| 33 | Structure and ligand binding of the glutamine-II riboswitch. Nucleic Acids Research, 2019, 47, 7666-7675. | 14.5 | 17 |
| 34 | Using Rosetta for RNA homology modeling. Methods in Enzymology, 2019, 623, 177-207. | 1.0 | 17 |
| 35 | Evaluating riboswitch optimality. Methods in Enzymology, 2019, 623, 417-450. | 1.0 | 9 |
| 36 | A Quantitative and Predictive Model for RNA Binding by Human Pumilio Proteins. Molecular Cell, 2019, 74, 966-981.e18. | 9.7 | 55 |

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| 37 | Blind tests of RNA–protein binding affinity prediction. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 8336-8341. | 7.1 | 21 |
| 38 | Spontaneous driving forces give rise to proteinâ^'RNA condensates with coexisting phases and complex material properties. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 7889-7898. | 7.1 | 365 |
| 39 | Cryo-EM structure of a 40ÂkDa SAM-IV riboswitch RNA at 3.7 à resolution. Nature Communications, 2019, 10, 5511. | 12.8 | 90 |
| 40 | Sampling Native-like Structures of RNA-Protein Complexes through Rosetta Folding and Docking. Structure, 2019, 27, 140-151.e5. | 3.3 | 34 |
| 41 | Functional 5′ UTR mRNA structures in eukaryotic translation regulation and how to find them. Nature Reviews Molecular Cell Biology, 2018, 19, 158-174. | 37.0 | 577 |
| 42 | Hidden Structural Modules in a Cooperative RNA Folding Transition. Cell Reports, 2018, 22, 3240-3250. | 6.4 | 20 |
| 43 | Webâ€accessible molecular modeling with Rosetta: The Rosetta Online Server that Includes Everyone (ROSIE). Protein Science, 2018, 27, 259-268. | 7.6 | 47 |
| 44 | Controllable molecular motors engineered from myosin and RNA. Nature Nanotechnology, 2018, 13, 34-40. | 31.5 | 19 |
| 45 | Ribosome-induced RNA conformational changes in a viral 3′-UTR sense and regulate translation levels. Nature Communications, 2018, 9, 5074. | 12.8 | 19 |
| 46 | De novo computational RNA modeling into cryo-EM maps of large ribonucleoprotein complexes. Nature Methods, 2018, 15, 947-954. | 19.0 | 45 |
| 47 | Updates to the RNA mapping database (RMDB), version 2. Nucleic Acids Research, 2018, 46, D375-D379. | 14.5 | 19 |
| 48 | An Activity Switch in Human Telomerase Based on RNA Conformation and Shaped by TCAB1. Cell, 2018, 174, 218-230.e13. | 28.9 | 64 |
| 49 | Blind prediction of noncanonical RNA structure at atomic accuracy. Science Advances, 2018, 4, eaar5316. | 10.3 | 37 |
| 50 | Allosteric mechanism of the V. vulnificus adenine riboswitch resolved by four-dimensional chemical mapping. ELife, 2018, 7, . | 6.0 | 16 |
| 51 | High-Throughput Investigation of Diverse Junction Elements in RNA Tertiary Folding. Cell, 2018, 174, 377-390.e20. | 28.9 | 72 |
| 52 | Recording and Analyzing Nucleic Acid Distance Distributions with Xâ€Ray Scattering Interferometry (XSI). Current Protocols in Nucleic Acid Chemistry, 2018, 73, e54. | 0.5 | 8 |
| 53 | Primerize-2D: automated primer design for RNA multidimensional chemical mapping. Bioinformatics, 2017, 33, 1405-1406. | 4.1 | 22 |
| 54 | RNA-Puzzles Round III: 3D RNA structure prediction of five riboswitches and one ribozyme. Rna, 2017, 23, 655-672. | 3.5 | 158 |

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| 55 | The Rosetta All-Atom Energy Function for Macromolecular Modeling and Design. Journal of Chemical Theory and Computation, 2017, 13, 3031-3048. | 5.3 | 1,032 |
| 56 | Single-molecule FRET-Rosetta reveals RNA structural rearrangements during human telomerase catalysis. Rna, 2017, 23, 175-188. | 3.5 | 23 |
| 57 | RNA structure inference through chemical mapping after accidental or intentional mutations. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 9876-9881. | 7.1 | 54 |
| 58 | RNA structure through multidimensional chemical mapping. Quarterly Reviews of Biophysics, 2016, 49, e7. | 5.7 | 46 |
| 59 | Modeling Small Noncanonical RNA Motifs with the Rosetta FARFAR Server. Methods in Molecular Biology, 2016, 1490, 187-198. | 0.9 | 11 |
| 60 | Blind tests of RNA nearest-neighbor energy prediction. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 8430-8435. | 7.1 | 29 |
| 61 | Principles for Predicting RNA Secondary Structure Design Difficulty. Journal of Molecular Biology, 2016, 428, 748-757. | 4.2 | 67 |
| 62 | RNA Structure Refinement Using the ERRASER-Phenix Pipeline. Methods in Molecular Biology, 2016, 1320, 269-282. | 0.9 | 24 |
| 63 | Rich RNA Structure Landscapes Revealed by Mutate-and-Map Analysis. PLoS Computational Biology, 2015, 11, e1004473. | 3.2 | 49 |
| 64 | Automated band annotation for RNA structure probing experiments with numerous capillary electrophoresis profiles. Bioinformatics, 2015, 31, 2808-2815. | 4.1 | 21 |
| 65 | RNA-Redesign: a web server for fixed-backbone 3D design of RNA: Figure 1 Nucleic Acids Research, 2015, 43, W498-W501. | 14.5 | 8 |
| 66 | Primerize: automated primer assembly for transcribing non-coding RNA domains. Nucleic Acids Research, 2015, 43, W522-W526. | 14.5 | 41 |
| 67 | Modeling Complex RNA Tertiary Folds with Rosetta. Methods in Enzymology, 2015, 553, 35-64. | 1.0 | 84 |
| 68 | <i>RNA-Puzzles</i> Round II: assessment of RNA structure prediction programs applied to three large RNA structures. Rna, 2015, 21, 1066-1084. | 3.5 | 161 |
| 69 | RNA regulons in Hox 5′ UTRs confer ribosome specificity to gene regulation. Nature, 2015, 517, 33-38. | 27.8 | 258 |
| 70 | Consistent global structures of complex RNA states through multidimensional chemical mapping. ELife, 2015, 4, e07600. | 6.0 | 57 |
| 71 | Structure determination of noncanonical RNA motifs guided by 1H NMR chemical shifts. Nature Methods, 2014, 11, 413-416. | 19.0 | 72 |
| 72 | Blind Predictions of DNA and RNA Tweezers Experiments with Force and Torque. PLoS Computational Biology, 2014, 10, e1003756. | 3.2 | 36 |

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| 73 | High-throughput mutate-map-rescue evaluates SHAPE-directed RNA structure and uncovers excited states. Rna, 2014, 20, 1815-1826. | 3.5 | 55 |
| 74 | Bayesian Energy Landscape Tilting: Towards Concordant Models of Molecular Ensembles. Biophysical Journal, 2014, 106, 1381-1390. | 0.5 | 58 |
| 75 | Understanding Nucleic Acid–Ion Interactions. Annual Review of Biochemistry, 2014, 83, 813-841. | 11.1 | 358 |
| 76 | RNA design rules from a massive open laboratory. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 2122-2127. | 7.1 | 264 |
| 77 | Double-stranded RNA under force and torque: Similarities to and striking differences from double-stranded DNA. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 15408-15413. | 7.1 | 162 |
| 78 | Scientific rigor through videogames. Trends in Biochemical Sciences, 2014, 39, 507-509. | 7.5 | 15 |
| 79 | Challenging the state of the art in protein structure prediction: Highlights of experimental target structures for the 10th Critical Assessment of Techniques for Protein Structure Prediction Experiment CASP10. Proteins: Structure, Function and Bioinformatics, 2014, 82, 26-42. | 2.6 | 53 |
| 80 | Standardization of RNA Chemical Mapping Experiments. Biochemistry, 2014, 53, 3063-3065. | 2.5 | 63 |
| 81 | The Mutate-and-Map Protocol for Inferring Base Pairs in Structured RNA. Methods in Molecular Biology, 2014, 1086, 53-77. | 0.9 | 43 |
| 82 | Massively Parallel RNA Chemical Mapping with a Reduced Bias MAP-Seq Protocol. Methods in Molecular Biology, 2014, 1086, 95-117. | 0.9 | 60 |
| 83 | Remodeling a β-peptide bundle. Chemical Science, 2013, 4, 319-324. | 7.4 | 18 |
| 84 | Advances, Interactions, and Future Developments in the CNS, Phenix, and Rosetta Structural Biology Software Systems. Annual Review of Biophysics, 2013, 42, 265-287. | 10.0 | 88 |
| 85 | HiTRACE-Web: an online tool for robust analysis of high-throughput capillary electrophoresis. Nucleic Acids Research, 2013, 41, W492-W498. | 14.5 | 34 |
| 86 | Correcting pervasive errors in RNA crystallography through enumerative structure prediction. Nature Methods, 2013, 10, 74-76. | 19.0 | 138 |
| 87 | Adding Diverse Noncanonical Backbones to Rosetta: Enabling Peptidomimetic Design. PLoS ONE, 2013, 8, e67051. | 2.5 | 59 |
| 88 | Atomic-Accuracy Prediction of Protein Loop Structures through an RNA-Inspired Ansatz. PLoS ONE, 2013, 8, e74830. | 2.5 | 17 |
| 89 | Serverification of Molecular Modeling Applications: The Rosetta Online Server That Includes Everyone (ROSIE). PLoS ONE, 2013, 8, e63906. | 2.5 | 348 |
| 90 | â€~Hidden' states are pervasive in RNA folding: detection and dissection through mutateâ€andâ€map experiments. FASEB Journal, 2013, 27, 96.2. | 0.5 | 0 |

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| 91 | Ultraviolet Shadowing of RNA Can Cause Significant Chemical Damage in Seconds. Scientific Reports, 2012, 2, 517. | 3.3 | 64 |
| 92 | An RNA Mapping DataBase for curating RNA structure mapping experiments. Bioinformatics, 2012, 28, 3006-3008. | 4.1 | 93 |
| 93 | <i>RNA-Puzzles</i> : A CASP-like evaluation of RNA three-dimensional structure prediction. Rna, 2012, 18, 610-625. | 3.5 | 241 |
| 94 | Metal-ion rescue revisited: Biochemical detection of site-bound metal ions important for RNA folding. Rna, 2012, 18, 1123-1141. | 3.5 | 36 |
| 95 | Quantitative Dimethyl Sulfate Mapping for Automated RNA Secondary Structure Inference. Biochemistry, 2012, 51, 7037-7039. | 2.5 | 119 |
| 96 | Are Protein Force Fields Getting Better? A Systematic Benchmark on 524 Diverse NMR Measurements. Journal of Chemical Theory and Computation, 2012, 8, 1409-1414. | 5.3 | 347 |
| 97 | Why Can't We Predict RNA Structure At Atomic Resolution?. Nucleic Acids and Molecular Biology, 2012, , 43-65. | 0.2 | 8 |
| 98 | Automated RNA Structure Prediction Uncovers a Kink-Turn Linker in Double Glycine Riboswitches. Journal of the American Chemical Society, 2012, 134, 1404-1407. | 13.7 | 47 |
| 99 | Understanding the Errors of SHAPE-Directed RNA Structure Modeling. Biochemistry, 2011, 50, 8049-8056. | 2.5 | 86 |
| 100 | HiTRACE: high-throughput robust analysis for capillary electrophoresis. Bioinformatics, 2011, 27, 1798-1805. | 4.1 | 86 |
| 101 | A two-dimensional mutate-and-map strategy for non-coding RNA structure. Nature Chemistry, 2011, 3, 954-962. | 13.6 | 113 |
| 102 | Rosetta3. Methods in Enzymology, 2011, 487, 545-574. | 1.0 | 1,620 |
| 103 | Four Small Puzzles That Rosetta Doesn't Solve. PLoS ONE, 2011, 6, e20044. | 2.5 | 61 |
| 104 | A mutate-and-map strategy accurately infers the base pairs of a 35-nucleotide model RNA. Rna, 2011, 17, 522-534. | 3.5 | 45 |
| 105 | An enumerative stepwise ansatz enables atomic-accuracy RNA loop modeling. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 20573-20578. | 7.1 | 63 |
| 106 | Sharing and archiving nucleic acid structure mapping data. Rna, 2011, 17, 1204-1212. | 3.5 | 28 |
| 107 | Quantitative comparison of villin headpiece subdomain simulations and triplet-triplet energy transfer experiments. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 12734-12739. | 7.1 | 64 |
| 108 | Rosetta in CAPRI rounds 13–19. Proteins: Structure, Function and Bioinformatics, 2010, 78, 3212-3218. | 2.6 | 20 |

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| 109 | Atomic accuracy in predicting and designing noncanonical RNA structure. Nature Methods, 2010, 7, 291-294. | 19.0 | 328 |
| 110 | A Mutate-and-Map Strategy for Inferring Base Pairs in Structured Nucleic Acids: Proof of Concept on a DNA/RNA Helix. Biochemistry, 2010, 49, 7414-7416. | 2.5 | 34 |
| 111 | Simultaneous prediction of protein folding and docking at high resolution. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 18978-18983. | 7.1 | 145 |
| 112 | A robust peak detection method for RNA structure inference by high-throughput contact mapping. Bioinformatics, 2009, 25, 1137-1144. | 4.1 | 16 |
| 113 | Response to Comment on "Remeasuring the Double Helix― Science, 2009, 325, 538-538. | 12.6 | 13 |
| 114 | Structure prediction for CASP8 with allâ€atom refinement using Rosetta. Proteins: Structure, Function and Bioinformatics, 2009, 77, 89-99. | 2.6 | 425 |
| 115 | Prospects forde novophasing withde novoprotein models. Acta Crystallographica Section D: Biological Crystallography, 2009, 65, 169-175. | 2.5 | 32 |
| 116 | Coarse-grained modeling of large RNA molecules with knowledge-based potentials and structural filters. Rna, 2009, 15, 189-199. | 3.5 | 300 |
| 117 | Macromolecular Modeling with Rosetta. Annual Review of Biochemistry, 2008, 77, 363-382. | 11.1 | 841 |
| 118 | Semiautomated and rapid quantification of nucleic acid footprinting and structure mapping experiments. Nature Protocols, 2008, 3, 1395-1401. | 12.0 | 70 |
| 119 | Remeasuring the Double Helix. Science, 2008, 322, 446-449. | 12.6 | 200 |
| 120 | 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 |
| 121 | A Molecular Ruler for Measuring Quantitative Distance Distributions. PLoS ONE, 2008, 3, e3229. | 2.5 | 57 |
| 122 | Automated <i>de novo</i> prediction of native-like RNA tertiary structures. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 14664-14669. | 7.1 | 397 |
| 123 | Structural Transitions and Thermodynamics of a Glycine-Dependent Riboswitch from Vibrio cholerae. Journal of Molecular Biology, 2007, 365, 1393-1406. | 4.2 | 116 |
| 124 | Structure prediction for CASP7 targets using extensive all-atom refinement with Rosetta@home. Proteins: Structure, Function and Bioinformatics, 2007, 69, 118-128. | 2.6 | 178 |
| 125 | High-resolution structure prediction and the crystallographic phase problem. Nature, 2007, 450, 259-264. | 27.8 | 296 |
| 126 | The Paradoxical Behavior of a Highly Structured Misfolded Intermediate in RNA Folding. Journal of Molecular Biology, 2006, 363, 531-544. | 4.2 | 92 |

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| 128 | Probing counterion modulated repulsion and attraction between nucleic acid duplexes in solution. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 1035-1040. | 7.1 | 97 |
| 129 | Determining the Mg2+Stoichiometry for Folding an RNA Metal Ion Core. Journal of the American Chemical Society, 2005, 127, 8272-8273. | 13.7 | 98 |
| 130 | Spatial Distribution of Competing lons around DNA in Solution. Physical Review Letters, 2004, 93, 248103. | 7.8 | 106 |
| 131 | Principles of RNA Compaction: Insights from the Equilibrium Folding Pathway of the P4-P6 RNA Domain in Monovalent Cations. Journal of Molecular Biology, 2004, 343, 1195-1206. | 4.2 | 118 |
| 132 | A measurement of H0 from Ryle Telescope, ASCA and ROSAT observations of Abell 773. Monthly Notices of the Royal Astronomical Society, 2003, 341, 937-940. | 4.4 | 26 |
| 133 | Exploration of the Transition State for Tertiary Structure Formation between an RNA Helix and a Large Structured RNA. Journal of Molecular Biology, 2003, 328, 1011-1026. | 4.2 | 96 |
| 134 | The Fastest Global Events in RNA Folding: Electrostatic Relaxation and Tertiary Collapse of the Tetrahymena Ribozyme. Journal of Molecular Biology, 2003, 332, 311-319. | 4.2 | 130 |
| 135 | Detection of a cosmic microwave background decrement towards a cluster of mJy radio sources. Monthly Notices of the Royal Astronomical Society, 2002, 331, 1-6. | 4.4 | 9 |
| 136 | Observations of the Sunyaev-Zel'dovich effect in the z=0.78 cluster MS 1137.5+6625. Monthly Notices of the Royal Astronomical Society, 2002, 334, 323-326. | 4.4 | 4 |
| 137 | A maximum-likelihood approach to removing radio sources from observations of the SunyaevZel'dovich effect, with application to Abell 611. Monthly Notices of the Royal Astronomical Society, 2002, 337, 1207-1214. | 4.4 | 9 |