

# Ä°lyas Yildirim

## List of Publications by Year in descending order

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Version: 2024-02-01

40  
papers

1,722  
citations

279798

23  
h-index

289244

40  
g-index

42  
all docs

42  
docs citations

42  
times ranked

1863  
citing authors

#	ARTICLE	IF	CITATIONS
1	Computational Investigation of Bending Properties of RNA AUUCU, CCUG, CAG, and CUG Repeat Expansions Associated With Neuromuscular Disorders. <i>Frontiers in Molecular Biosciences</i> , 2022, 9, 830161.	3.5	2
2	Evaluating Geometric Definitions of Stacking for RNA Dinucleoside Monophosphates Using Molecular Mechanics Calculations. <i>Journal of Chemical Theory and Computation</i> , 2022, 18, 3637-3653.	5.3	8
3	A Small Molecule that Binds an RNA Repeat Expansion Stimulates Its Decay via the Exosome Complex. <i>Cell Chemical Biology</i> , 2021, 28, 34-45.e6.	5.2	23
4	Massively Parallel Optimization of the Linker Domain in Small Molecule Dimers Targeting a Toxic r(CUG) Repeat Expansion. <i>ACS Medicinal Chemistry Letters</i> , 2021, 12, 907-914.	2.8	4
5	Ribonuclease recruitment using a small molecule reduced c9ALS/FTD r(G <sub>4</sub> C <sub>2</sub> ) Tj ETQq1,10.784314 rgBT / 12.4 39	12.4	39
6	A Small Molecule Exploits Hidden Structural Features within the RNA Repeat Expansion That Causes c9ALS/FTD and Rescues Pathological Hallmarks. <i>ACS Chemical Neuroscience</i> , 2021, 12, 4076-4089.	3.5	8
7	Structural Features of Small Molecules Targeting the RNA Repeat Expansion That Causes Genetically Defined ALS/FTD. <i>ACS Chemical Biology</i> , 2020, 15, 3112-3123.	3.4	12
8	Design of a small molecule that stimulates vascular endothelial growth factor A enabled by screening RNA foldâ€“small molecule interactions. <i>Nature Chemistry</i> , 2020, 12, 952-961.	13.6	51
9	Macrocyclization of a Ligand Targeting a Toxic RNA Dramatically Improves Potency. <i>ChemBioChem</i> , 2020, 21, 3229-3233.	2.6	2
10	Small-molecule targeted recruitment of a nuclease to cleave an oncogenic RNA in a mouse model of metastatic cancer. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 2406-2411.	7.1	116
11	A general fragment-based approach to identify and optimize bioactive ligands targeting RNA. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 33197-33203.	7.1	48
12	The Hairpin Form of r(G4C2) <sub>exp</sub> in c9ALS/FTD Is Repeat-Associated Non-ATG Translated and a Target for Bioactive Small Molecules. <i>Cell Chemical Biology</i> , 2019, 26, 179-190.e12.	5.2	80
13	Computational Investigation of RNA A-Bulges Related to the Microtubule-Associated Protein Tau Causing Frontotemporal Dementia and Parkinsonism. <i>Journal of Physical Chemistry B</i> , 2019, 123, 57-65.	2.6	3
14	Improvement of RNA Simulations with Torsional Revisions of the AMBER Force Field. <i>Methods in Molecular Biology</i> , 2019, 2022, 55-74.	0.9	2
15	Structure and Dynamics of RNA Repeat Expansions That Cause Huntingtonâ€™s Disease and Myotonic Dystrophy Type 1. <i>Biochemistry</i> , 2017, 56, 3463-3474.	2.5	19
16	Improving Computational Predictions of Single-Stranded RNA Tetramers with Revised $\hat{\pm}/\hat{\beta}^3$ Torsional Parameters for the Amber Force Field. <i>Journal of Physical Chemistry B</i> , 2017, 121, 2989-2999.	2.6	23
17	Structure and Dynamics of Electron Injection and Charge Recombination in i-Motif DNA Conjugates. <i>Journal of Physical Chemistry B</i> , 2017, 121, 8058-8068.	2.6	4
18	Crystallographic and Computational Analyses of AUUCU Repeating RNA That Causes Spinocerebellar Ataxia Type 10 (SCA10). <i>Biochemistry</i> , 2015, 54, 3851-3859.	2.5	19

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19	Stacking in RNA: NMR of Four Tetramers Benchmark Molecular Dynamics. <i>Journal of Chemical Theory and Computation</i> , 2015, 11, 2729-2742.	5.3	99
20	Allosteric transcriptional regulation via changes in the overall topology of the core promoter. <i>Science</i> , 2015, 349, 877-881.	12.6	118
21	Computational Investigation of RNA C<u>U</u>G Repeats Responsible for Myotonic Dystrophy 1. <i>Journal of Chemical Theory and Computation</i> , 2015, 11, 4943-4958.	5.3	20
22	Methods to enable the design of bioactive small molecules targeting RNA. <i>Organic and Biomolecular Chemistry</i> , 2014, 12, 1029-1039.	2.8	68
23	Optimization of an AMBER Force Field for the Artificial Nucleic Acid, LNA, and Benchmarking with NMR of L(CAAU). <i>Journal of Physical Chemistry B</i> , 2014, 118, 1216-1228.	2.6	32
24	Interplay of LNA and 2- <i>O</i> -Methyl RNA in the Structure and Thermodynamics of RNA Hybrid Systems: A Molecular Dynamics Study Using the Revised AMBER Force Field and Comparison with Experimental Results. <i>Journal of Physical Chemistry B</i> , 2014, 118, 14177-14187.	2.6	46
25	Hydrophobic Organic Linkers in the Self-Assembly of Small Molecule-DNA Hybrid Dimers: A Computational-Experimental Study of the Role of Linkage Direction in Product Distributions and Stabilities. <i>Journal of Physical Chemistry B</i> , 2014, 118, 2366-2376.	2.6	10
26	Structure of the Myotonic Dystrophy Type 2 RNA and Designed Small Molecules That Reduce Toxicity. <i>ACS Chemical Biology</i> , 2014, 9, 538-550.	3.4	61
27	Induction and reversal of myotonic dystrophy type 1 pre-mRNA splicing defects by small molecules. <i>Nature Communications</i> , 2013, 4, 2044.	12.8	76
28	A Dynamic Structural Model of Expanded RNA CAG Repeats: A Refined X-ray Structure and Computational Investigations Using Molecular Dynamics and Umbrella Sampling Simulations. <i>Journal of the American Chemical Society</i> , 2013, 135, 3528-3538.	13.7	53
29	Revision of AMBER Torsional Parameters for RNA Improves Free Energy Predictions for Tetramer Duplexes with GC and iGiC Base Pairs. <i>Journal of Chemical Theory and Computation</i> , 2012, 8, 172-181.	5.3	65
30	Testing the Nearest Neighbor Model for Canonical RNA Base Pairs: Revision of GU Parameters. <i>Biochemistry</i> , 2012, 51, 3508-3522.	2.5	80
31	Enhancing the Melting Properties of Small Molecule-DNA Hybrids through Designed Hydrophobic Interactions: An Experimental-Computational Study. <i>Journal of the American Chemical Society</i> , 2012, 134, 7450-7458.	13.7	33
32	Benchmarking AMBER Force Fields for RNA: Comparisons to NMR Spectra for Single-Stranded r(GACC) Are Improved by Revised $\ddagger$ Torsions. <i>Journal of Physical Chemistry B</i> , 2011, 115, 9261-9270.	2.6	95
33	Reparameterization of RNA $\ddagger$ Torsion Parameters for the AMBER Force Field and Comparison to NMR Spectra for Cytidine and Uridine. <i>Journal of Chemical Theory and Computation</i> , 2010, 6, 1520-1531.	5.3	155
34	An RNA Molecular Switch: Intrinsic Flexibility of 23S rRNA Helices 40 and 68 5'-UAA/5'-GAN Internal Loops Studied by Molecular Dynamics Methods. <i>Journal of Chemical Theory and Computation</i> , 2010, 6, 910-929.	5.3	46
35	An RNA molecular switch: Intrinsic flexibility of 23S rRNA Helices 40 and 68 5'-UAA/5'-GAN internal loops studied by molecular dynamics methods. <i>Journal of Chemical Theory and Computation</i> , 2010, 910-929.	5.3	17
36	Effects of Restrained Sampling Space and Nonplanar Amino Groups on Free-Energy Predictions for RNA with Imino and Sheared Tandem GA Base Pairs Flanked by GC, CG, iGiC or iCiG Base Pairs. <i>Journal of Chemical Theory and Computation</i> , 2009, 5, 2088-2100.	5.3	39

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37	Contributions of Stacking, Preorganization, and Hydrogen Bonding to the Thermodynamic Stability of Duplexes between RNA and 2- <i>O</i> -Methyl RNA with Locked Nucleic Acids. <i>Biochemistry</i> , 2009, 48, 4377-4387.	2.5	43
38	Zinc porphyrin: A fluorescent acceptor in studies of Zn-cytochrome <i>c</i> unfolding by fluorescence resonance energy transfer. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 10779-10784.	7.1	37
39	Stacking Effects on Local Structure in RNA: Changes in the Structure of Tandem GA Pairs when Flanking GC Pairs Are Replaced by isoG~isoC Pairs. <i>Journal of Physical Chemistry B</i> , 2007, 111, 6718-6727.	2.6	17
40	RNA Challenges for Computational Chemists. <i>Biochemistry</i> , 2005, 44, 13225-13234.	2.5	47