

CITATION REPORT

List of articles citing

General base catalysis for cleavage by the active-site cytosine of the hepatitis delta virus ribozyme: QM/MM calculations establish chemical feasibility

DOI: 10.1021/jp802592z

Journal of Physical Chemistry B, 2008, 112, 11177-87.

Source: <https://exaly.com/paper-pdf/44203172/citation-report.pdf>

Version: 2024-04-28

This report has been generated based on the citations recorded by exaly.com for the above article. For the latest version of this publication list, visit the link given above.

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

#	Paper	IF	Citations
45	Mapping the Chemical Space of the RNA Cleavage and Its Implications for Ribozyme Catalysis.		
44	Mechanistic characterization of the HDV genomic ribozyme: solvent isotope effects and proton inventories in the absence of divalent metal ions support C75 as the general acid. <i>Journal of the American Chemical Society</i> , 2008 , 130, 14504-20	16.4	43
43	Theoretical studies of RNA catalysis: hybrid QM/MM methods and their comparison with MD and QM. <i>Methods</i> , 2009 , 49, 202-16	4.6	74
42	Book of Abstracts Albany 2009: The 16th Conversation June 16 th 2009. <i>Journal of Biomolecular Structure and Dynamics</i> , 2009 , 26, i-932	3.6	
41	Comparative enzymology and structural biology of RNA self-cleavage. <i>Annual Review of Biophysics</i> , 2009 , 38, 271-99	21.1	116
40	Hammerhead ribozymes: true metal or nucleobase catalysis? Where is the catalytic power from?. <i>Molecules</i> , 2010 , 15, 5389-407	4.8	19
39	The assessment of density functionals for DNA-protein stacked and T-shaped complexes. <i>Canadian Journal of Chemistry</i> , 2010 , 88, 815-830	0.9	36
38	Molecular dynamics and quantum mechanics of RNA: conformational and chemical change we can believe in. <i>Accounts of Chemical Research</i> , 2010 , 43, 40-7	24.3	140
37	Extensive molecular dynamics simulations showing that canonical G8 and protonated A38H ⁺ forms are most consistent with crystal structures of hairpin ribozyme. <i>Journal of Physical Chemistry B</i> , 2010 , 114, 6642-52	3.4	72
36	Protonation states of the key active site residues and structural dynamics of the glmS riboswitch as revealed by molecular dynamics. <i>Journal of Physical Chemistry B</i> , 2010 , 114, 8701-12	3.4	53
35	The role of L1 stalk-tRNA interaction in the ribosome elongation cycle. <i>Journal of Molecular Biology</i> , 2010 , 402, 741-60	6.5	84
34	A 1.9 Å crystal structure of the HDV ribozyme precleavage suggests both Lewis acid and general acid mechanisms contribute to phosphodiester cleavage. <i>Biochemistry</i> , 2010 , 49, 6508-18	3.2	112
33	Phosphate residues of antigenomic HDV ribozyme important for catalysis that are revealed by phosphorothioate modification. <i>New Journal of Chemistry</i> , 2010 , 34, 1018	3.6	9
32	Quantum Mechanical/Molecular Mechanical Study of the HDV Ribozyme: Impact of the Catalytic Metal Ion on the Mechanism. <i>Journal of Physical Chemistry Letters</i> , 2011 , 2, 2906-2911	6.4	17
31	Metal binding motif in the active site of the HDV ribozyme binds divalent and monovalent ions. <i>Biochemistry</i> , 2011 , 50, 2672-82	3.2	49
30	Characterization of the Structure and Dynamics of the HDV Ribozyme at Different Stages Along the Reaction Path. <i>Journal of Physical Chemistry Letters</i> , 2011 , 2, 2538-2543	6.4	30
29	QM/MM studies of hairpin ribozyme self-cleavage suggest the feasibility of multiple competing reaction mechanisms. <i>Journal of Physical Chemistry B</i> , 2011 , 115, 13911-24	3.4	30

28	Modeling the RNA 25OH activation: possible roles of metal ion and nucleobase as catalysts in self-cleaving ribozymes. <i>Journal of Physical Chemistry B</i> , 2011 , 115, 10943-56	3.4	12
27	Abstracts of Albany 2011, the 17th Conversation. June 14-18 2011. Albany, New York, USA. <i>Journal of Biomolecular Structure and Dynamics</i> , 2011 , 28, 975-1170	3.6	1
26	Ions in Molecular Dynamics Simulations of RNA Systems. <i>Nucleic Acids and Molecular Biology</i> , 2012 , 299-318		7
25	The DNA and RNA sugar-phosphate backbone emerges as the key player. An overview of quantum-chemical, structural biology and simulation studies. <i>Physical Chemistry Chemical Physics</i> , 2012 , 14, 15257-77	3.6	68
24	Modeling methods for studying post-translational and transcriptional modifying enzymes. <i>Current Opinion in Chemical Biology</i> , 2012 , 16, 465-71	9.7	5
23	Can We Accurately Describe the Structure of Adenine Tracts in B-DNA? Reference Quantum-Chemical Computations Reveal Overstabilization of Stacking by Molecular Mechanics. <i>Journal of Chemical Theory and Computation</i> , 2012 , 8, 2448-60	6.4	56
22	Chapter 6: Molecular Dynamics Simulations of RNA Molecules. <i>RSC Biomolecular Sciences</i> , 129-155		6
21	Theoretical aspects of hydrolysis of peptide bonds by zinc metalloenzymes. <i>Chemistry - A European Journal</i> , 2013 , 19, 16634-45	4.8	9
20	Interaction between epoxidised estradiol and fullerene (C60): possible anticancer activity. <i>Molecular Simulation</i> , 2013 , 39, 612-620	2	4
19	New tools provide a second look at HDV ribozyme structure, dynamics and cleavage. <i>Nucleic Acids Research</i> , 2014 , 42, 12833-46	20.1	26
18	Molecular Dynamics Simulations of Nucleic Acids. From Tetranucleotides to the Ribosome. <i>Journal of Physical Chemistry Letters</i> , 2014 , 5, 1771-82	6.4	113
17	Comparison of ab Initio, DFT, and Semiempirical QM/MM Approaches for Description of Catalytic Mechanism of Hairpin Ribozyme. <i>Journal of Chemical Theory and Computation</i> , 2014 , 10, 1608-22	6.4	48
16	Using potential energy surface scans to examine the bond dissociation energies of trans-ReOS2N2 and [ReOS3N]11 model complexes. <i>Computational and Theoretical Chemistry</i> , 2014 , 1048, 25-34	2	3
15	Quantum mechanical/molecular mechanical free energy simulations of the self-cleavage reaction in the hepatitis delta virus ribozyme. <i>Journal of the American Chemical Society</i> , 2014 , 136, 1483-96	16.4	57
14	The role of an active site Mg(2+) in HDV ribozyme self-cleavage: insights from QM/MM calculations. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 670-9	3.6	22
13	Theoretical study on the mechanism of self-cleavage reaction of the glmS ribozyme. <i>Theoretical Chemistry Accounts</i> , 2015 , 134, 1	1.9	1
12	The ONIOM Method and Its Applications. <i>Chemical Reviews</i> , 2015 , 115, 5678-796	68.1	671
11	Chemical feasibility of the general acid/base mechanism of glmS ribozyme self-cleavage. <i>Biopolymers</i> , 2015 , 103, 550-62	2.2	8

10	6 Metal Ions: Supporting Actors in the Playbook of Small Ribozymes. 2015 , 175-196		
9	11 Metal Ion Binding and Function in Natural and Artificial Small RNA Enzymes from a Structural Perspective. 2015 , 299-346		
8	Anodically grown functional oxide nanotubes and applications. <i>MRS Communications</i> , 2016 , 6, 375-396	2.7	26
7	A Two-Metal-Ion-Mediated Conformational Switching Pathway for HDV Ribozyme Activation. <i>ACS Catalysis</i> , 2016 , 6, 1853-1869	13.1	22
6	Understanding in-line probing experiments by modeling cleavage of nonreactive RNA nucleotides. <i>Rna</i> , 2017 , 23, 712-720	5.8	8
5	Mapping the Chemical Space of the RNA Cleavage and Its Implications for Ribozyme Catalysis. <i>Journal of Physical Chemistry B</i> , 2017 , 121, 10828-10840	3.4	4
4	How to understand atomistic molecular dynamics simulations of RNA and protein-RNA complexes?. <i>Wiley Interdisciplinary Reviews RNA</i> , 2017 , 8, e1405	9.3	42
3	RNA Structural Dynamics As Captured by Molecular Simulations: A Comprehensive Overview. <i>Chemical Reviews</i> , 2018 , 118, 4177-4338	68.1	235
2	Metal ions: supporting actors in the playbook of small ribozymes. <i>Metal Ions in Life Sciences</i> , 2011 , 9, 175-96		40
1	11: Metal Ion Binding and Function in Natural and Artificial Small RNA Enzymes from a Structural Perspective. <i>Metal Ions in Life Sciences</i> , 2011 , 299-345		17