

William G Scott

List of Publications by Year in descending order

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56
papers

4,513
citations

147566

31
h-index

189595

50
g-index

56
all docs

56
docs citations

56
times ranked

2526
citing authors

#	ARTICLE	IF	CITATIONS
1	Recruiting more proteins to the RNA world. <i>Science</i> , 2018, 362, 644-645.	6.0	1
2	Structural Simplicity and Mechanistic Complexity in the Hammerhead Ribozyme. <i>Progress in Molecular Biology and Translational Science</i> , 2018, 159, 177-202.	0.9	8
3	Minimal Hammerhead Ribozymes with Uncompromised Catalytic Activity. <i>Journal of Molecular Biology</i> , 2015, 427, 2340-2347.	2.0	14
4	Structural Variations and Solvent Structure of r(UGGGGU) Quadruplexes Stabilized by Sr ²⁺ Ions. <i>Journal of Molecular Biology</i> , 2015, 427, 2205-2219.	2.0	11
5	<i>RNA</i> , 2015, , 2190-2192.		0
6	RNA Catalysis, Thermodynamics and the Origin of Life. <i>Life</i> , 2014, 4, 131-141.	1.1	15
7	Structural and catalytic effects of an invariant purine substitution in the hammerhead ribozyme: implications for the mechanism of acid-base catalysis. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2014, 70, 2256-2263.	2.5	6
8	How fluorescent RNA gets its glow. <i>Nature</i> , 2014, 513, 42-43.	13.7	1
9	<i>RNA</i> , 2014, , 1-4.		0
10	Active-Site Monovalent Cations Revealed in a 1.55-Å...-Resolution Hammerhead Ribozyme Structure. <i>Journal of Molecular Biology</i> , 2013, 425, 3790-3798.	2.0	34
11	The Hammerhead Ribozyme. <i>Progress in Molecular Biology and Translational Science</i> , 2013, 120, 1-23.	0.9	58
12	Mapping L1 Ligase Ribozyme Conformational Switch. <i>Journal of Molecular Biology</i> , 2012, 423, 106-122.	2.0	6
13	Challenges and surprises that arise with nucleic acids during model building and refinement. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2012, 68, 441-445.	2.5	4
14	Identification of dynamical hinge points of the L1 ligase molecular switch. <i>Rna</i> , 2010, 16, 769-780.	1.6	7
15	Solving novel RNA structures using only secondary structural fragments. <i>Methods</i> , 2010, 52, 168-172.	1.9	22
16	What can the New Hammerhead Ribozyme Structures Teach us About Design?. , 2010, , 305-323.		3
17	Small Self-cleaving Ribozymes. <i>Cold Spring Harbor Perspectives in Biology</i> , 2010, 2, a003574-a003574.	2.3	164
18	Structure and function of regulatory RNA elements: Ribozymes that regulate gene expression. <i>Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms</i> , 2009, 1789, 634-641.	0.9	29

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19	Threshold Occupancy and Specific Cation Binding Modes in the Hammerhead Ribozyme Active Site are Required for Active Conformation. <i>Journal of Molecular Biology</i> , 2009, 388, 195-206.	2.0	43
20	Ribozyme Catalysis of Phosphodiester Bond Isomerization: The Hammerhead RNA and Its Relatives. <i>Springer Series in Biophysics</i> , 2009, , 73-102.	0.4	0
21	A general method for phasing novel complex RNA crystal structures without heavy-atom derivatives. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2008, 64, 738-744.	2.5	30
22	Solvent Structure and Hammerhead Ribozyme Catalysis. <i>Chemistry and Biology</i> , 2008, 15, 332-342.	6.2	104
23	A discontinuous hammerhead ribozyme embedded in a mammalian messenger RNA. <i>Nature</i> , 2008, 454, 899-902.	13.7	156
24	The Crystal Structure of the Escherichia coli RNase E Apoprotein and a Mechanism for RNA Degradation. <i>Structure</i> , 2008, 16, 1238-1244.	1.6	74
25	Role of Mg ²⁺ in Hammerhead Ribozyme Catalysis from Molecular Simulation. <i>Journal of the American Chemical Society</i> , 2008, 130, 3053-3064.	6.6	102
26	Capturing Hammerhead Ribozyme Structures in Action by Modulating General Base Catalysis. <i>PLoS Biology</i> , 2008, 6, e234.	2.6	78
27	The RNA WikiProject: Community annotation of RNA families. <i>Rna</i> , 2008, 14, 2462-2464.	1.6	66
28	Morphing the minimal and full-length hammerhead ribozymes: implications for the cleavage mechanism. <i>Biological Chemistry</i> , 2007, 388, 727-35.	1.2	18
29	The Structural Basis of Ribozyme-Catalyzed RNA Assembly. <i>Science</i> , 2007, 315, 1549-1553.	6.0	98
30	Insight into the Role of Mg ²⁺ in Hammerhead Ribozyme Catalysis from X-ray Crystallography and Molecular Dynamics Simulation. <i>Journal of Chemical Theory and Computation</i> , 2007, 3, 325-327.	2.3	38
31	Ribozymes. <i>Current Opinion in Structural Biology</i> , 2007, 17, 280-286.	2.6	117
32	Tertiary Contacts Distant from the Active Site Prime a Ribozyme for Catalysis. <i>Cell</i> , 2006, 126, 309-320.	13.5	458
33	Structure of Escherichia coli RNase E catalytic domain and implications for RNA turnover. <i>Nature</i> , 2005, 437, 1187-1191.	13.7	259
34	The Structure of a Rigorously Conserved RNA Element within the SARS Virus Genome. <i>PLoS Biology</i> , 2004, 3, e5.	2.6	137
35	A Helical Twist-induced Conformational Switch Activates Cleavage in the Hammerhead Ribozyme. <i>Journal of Molecular Biology</i> , 2003, 332, 327-336.	2.0	50
36	Catalysis, evolution and life. <i>FEBS Letters</i> , 2003, 553, 18-20.	1.3	18

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37	A pH-dependent conformational change, rather than the chemical step, appears to be rate-limiting in the hammerhead ribozyme cleavage reaction 1 Edited by J. Doudna. <i>Journal of Molecular Biology</i> , 2002, 315, 121-130.	2.0	67
38	Visualizing the structure and mechanism of a small nucleolytic ribozyme. <i>Methods</i> , 2002, 28, 302-306.	1.9	15
39	Ribozyme catalysis via orbital steering ¹¹ Edited by J. Doudna. <i>Journal of Molecular Biology</i> , 2001, 311, 989-999.	2.0	17
40	[13] Conventional and time-resolved ribozyme X-ray crystallography. <i>Methods in Enzymology</i> , 2000, 317, 180-198.	0.4	8
41	Crystal structure of the Ffh and EF-G binding sites in the conserved domain IV of <i>Escherichia coli</i> 4.5S RNA. <i>Structure</i> , 2000, 8, 527-540.	1.6	56
42	Does a single metal ion bridge the A-9 and scissile phosphate groups in the catalytically active hammerhead ribozyme structure? 1 Edited by J. Karn. <i>Journal of Molecular Biology</i> , 2000, 296, 33-41.	2.0	53
43	Capture and Visualization of a Catalytic RNA Enzyme-Product Complex Using Crystal Lattice Trapping and X-Ray Holographic Reconstruction. <i>Molecular Cell</i> , 2000, 5, 279-287.	4.5	81
44	RNA structure, metal ions, and catalysis. <i>Current Opinion in Chemical Biology</i> , 1999, 3, 705-710.	2.8	49
45	Biophysical and biochemical investigations of RNA catalysis in the hammerhead ribozyme. <i>Quarterly Reviews of Biophysics</i> , 1999, 32, 241-284.	2.4	51
46	The hammerhead, hairpin and VS ribozymes are catalytically proficient in monovalent cations alone. <i>Chemistry and Biology</i> , 1998, 5, 587-595.	6.2	352
47	RNA catalysis. <i>Current Opinion in Structural Biology</i> , 1998, 8, 720-726.	2.6	45
48	The Structural Basis of Hammerhead Ribozyme Self-Cleavage. <i>Cell</i> , 1998, 92, 665-673.	13.5	225
49	Inhibition of the Hammerhead Ribozyme Cleavage Reaction by Site-Specific Binding of Tb(III). <i>Science</i> , 1998, 279, 81-84.	6.0	131
50	Crystallographic Analyses of Chemically Synthesized Modified Hammerhead RNA Sequences as a General Approach Toward Understanding Ribozyme Structure and Function. , 1997, 74, 387-392.		9
51	Ribozymes: structure and mechanism in RNA catalysis. <i>Trends in Biochemical Sciences</i> , 1996, 21, 220-224.	3.7	91
52	Ribozymes: structure and mechanism in RNA catalysis. , 1996, 21, 220-220.		42
53	Rapid Crystallization of Chemically Synthesized Hammerhead RNAs using a Double Screening Procedure. <i>Journal of Molecular Biology</i> , 1995, 250, 327-332.	2.0	118
54	The crystal structure of an All-RNA hammerhead ribozyme: A proposed mechanism for RNA catalytic cleavage. <i>Cell</i> , 1995, 81, 991-1002.	13.5	761

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55	Transmembrane signalling and the aspartate receptor. <i>Structure</i> , 1994, 2, 877-887.	1.6	35
56	Refined Structures of the Ligand-binding Domain of the Aspartate Receptor from <i>Salmonella typhimurium</i> . <i>Journal of Molecular Biology</i> , 1993, 232, 555-573.	2.0	78