

Aaron A Hoskins

List of Publications by Year in descending order

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Version: 2024-02-01

41
papers

1,292
citations

471061

17
h-index

377514

34
g-index

58
all docs

58
docs citations

58
times ranked

1585
citing authors

#	ARTICLE	IF	CITATIONS
1	Ordered and Dynamic Assembly of Single Spliceosomes. <i>Science</i> , 2011, 331, 1289-1295.	6.0	266
2	The spliceosome: a flexible, reversible macromolecular machine. <i>Trends in Biochemical Sciences</i> , 2012, 37, 179-188.	3.7	209
3	Visualizing the splicing of single pre-mRNA molecules in whole cell extract. <i>Rna</i> , 2008, 14, 170-179.	1.6	92
4	Alternative Spliceosome Assembly Pathways Revealed by Single-Molecule Fluorescence Microscopy. <i>Cell Reports</i> , 2013, 5, 151-165.	2.9	67
5	SF3b1 mutations associated with myelodysplastic syndromes alter the fidelity of branchsite selection in yeast. <i>Nucleic Acids Research</i> , 2017, 45, gkw1349.	6.5	66
6	Single-molecule colocalization FRET evidence that spliceosome activation precedes stable approach of 5â€² splice site and branch site. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 6783-6788.	3.3	55
7	Design and construction of a multiwavelength, micromirror total internal reflectance fluorescence microscope. <i>Nature Protocols</i> , 2014, 9, 2317-2328.	5.5	48
8	Structural Analysis of Multi-Helical RNAs by NMRâ€™SAXS/WAXS: Application to the U4/U6 di-snRNA. <i>Journal of Molecular Biology</i> , 2016, 428, 777-789.	2.0	45
9	Structural and functional modularity of the U2 snRNP in pre-mRNA splicing. <i>Critical Reviews in Biochemistry and Molecular Biology</i> , 2019, 54, 443-465.	2.3	39
10	Single molecule analysis reveals reversible and irreversible steps during spliceosome activation. <i>ELife</i> , 2016, 5, .	2.8	37
11	Visualizing cellular machines with colocalization single molecule microscopy. <i>Chemical Society Reviews</i> , 2014, 43, 1189-1200.	18.7	31
12	Strategies from UW-Madison for rescuing biomedical research in the US. <i>ELife</i> , 2015, 4, e09305.	2.8	30
13	New insights into the spliceosome by single molecule fluorescence microscopy. <i>Current Opinion in Chemical Biology</i> , 2011, 15, 864-870.	2.8	28
14	Conformational dynamics of stem II of the U2 snRNA. <i>Rna</i> , 2016, 22, 225-236.	1.6	27
15	Dynamics and consequences of spliceosome E complex formation. <i>ELife</i> , 2017, 6, .	2.8	25
16	Ribonucleoprotein purification and characterization using RNA Mango. <i>Rna</i> , 2017, 23, 1592-1599.	1.6	24
17	Functional analysis of Hsh155/SF3b1 interactions with the U2 snRNA/branch site duplex. <i>Rna</i> , 2018, 24, 1028-1040.	1.6	22
18	Usb1 controls U6 snRNP assembly through evolutionarily divergent cyclic phosphodiesterase activities. <i>Nature Communications</i> , 2017, 8, 497.	5.8	20

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19	Stress-induced Pseudouridylation Alters the Structural Equilibrium of Yeast U2 snRNA Stem II. <i>Journal of Molecular Biology</i> , 2018, 430, 524-536.	2.0	20
20	The Covalent Trimethoprim Chemical Tag Facilitates Single Molecule Imaging with Organic Fluorophores. <i>Biophysical Journal</i> , 2014, 106, 272-278.	0.2	14
21	A multi-step model for facilitated unwinding of the yeast U4/U6 RNA duplex. <i>Nucleic Acids Research</i> , 2016, 44, 10912-10928.	6.5	14
22	Dynamics of the DEAD-box ATPase Prp5 RecA-like domains provide a conformational switch during spliceosome assembly. <i>Nucleic Acids Research</i> , 2019, 47, 10842-10851.	6.5	13
23	Debranchase-resistant labeling of RNA using the 10DM24 deoxyribozyme and fluorescent modified nucleotides. <i>Chemical Communications</i> , 2017, 53, 11992-11995.	2.2	12
24	Analysis of spliceosome dynamics by maximum likelihood fitting of dwell time distributions. <i>Methods</i> , 2019, 153, 13-21.	1.9	12
25	Single Molecule Approaches for Studying Spliceosome Assembly and Catalysis. <i>Methods in Molecular Biology</i> , 2014, 1126, 217-241.	0.4	12
26	Rapid isolation and single-molecule analysis of ribonucleoproteins from cell lysate by SNAP-SiMPull. <i>Rna</i> , 2015, 21, 1031-1041.	1.6	11
27	Methodologies for studying the spliceosome's RNA dynamics with single-molecule FRET. <i>Methods</i> , 2017, 125, 45-54.	1.9	11
28	Chemical Inhibition of Pre-mRNA Splicing in Living <i>Saccharomyces cerevisiae</i> . <i>Cell Chemical Biology</i> , 2019, 26, 443-448.e3.	2.5	10
29	Lights, camera, action! Capturing the spliceosome and pre-mRNA splicing with single-molecule fluorescence microscopy. <i>Wiley Interdisciplinary Reviews RNA</i> , 2016, 7, 683-701.	3.2	9
30	<i>Saccharomyces cerevisiae</i> Ecm2 modulates the catalytic steps of pre-mRNA splicing. <i>Rna</i> , 2021, 27, 591-603.	1.6	8
31	Impact of cancer-associated mutations in Hsh155/SF3b1 HEAT repeats 9-12 on pre-mRNA splicing in <i>Saccharomyces cerevisiae</i> . <i>PLoS ONE</i> , 2020, 15, e0229315.	1.1	7
32	Network theory reveals principles of spliceosome structure and dynamics. <i>Structure</i> , 2022, 30, 190-200.e2.	1.6	5
33	When cells are down on their LUC7L2, alternative splicing rewires metabolism for OXPHOS. <i>Molecular Cell</i> , 2021, 81, 1859-1860.	4.5	1
34	Stuck on UUUU: New splicing inhibitors enhance U2AF2-RNA binding. <i>Cell Chemical Biology</i> , 2021, 28, 1106-1108.	2.5	1
35	RNA processing: Fungal spliceosomes break the mold. <i>Current Biology</i> , 2021, 31, R1482-R1484.	1.8	1
36	Towards Optimization of a General RNA Labeling Deoxyribozyme: Characterization of a Unimolecular Deoxyribozyme. <i>FASEB Journal</i> , 2015, 29, 573.10.	0.2	0

#	ARTICLE	IF	CITATIONS
37	Impact of Mutations in the DEXDâ€motif of the Yeast RNAâ€dependent ATPase Sub2. FASEB Journal, 2019, 33, 459.8.	0.2	0
38	Title is missing!., 2020, 15, e0229315.		0
39	Title is missing!., 2020, 15, e0229315.		0
40	Title is missing!., 2020, 15, e0229315.		0
41	Title is missing!., 2020, 15, e0229315.		0