Joan A Steitz

List of Publications by Year
in descending order

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Version: 2024-02-01

71	7,739	109137	98622
papers	citations	35 h-index	67 g-index

74	74	74	8183
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The Noncoding RNA Revolutionâ€"Trashing Old Rules to Forge New Ones. Cell, 2014, 157, 77-94.	13.5	2,001
2	Are snRNPs involved in splicing?. Nature, 1980, 283, 220-224.	13.7	1,264
3	A mammalian gene with introns instead of exons generating stable RNA products. Nature, 1996, 379, 464-466.	13.7	308
4	Alive with DEAD proteins. Nature, 1991, 349, 463-464.	13.7	262
5	Formation of triple-helical structures by the 3â€²-end sequences of MALAT1 and MENÎ² noncoding RNAs. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 19202-19207.	3.3	251
6	Trans splicing involves a novel form of small nuclear ribonucleoprotein particles. Nature, 1988, 335, 559-562.	13.7	216
7	Structural insights into the stabilization of MALAT1 noncoding RNA by a bipartite triple helix. Nature Structural and Molecular Biology, 2014, 21, 633-640.	3.6	213
8	Methyltransferase-like protein 16 binds the 3â€²-terminal triple helix of MALAT1 long noncoding RNA. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 14013-14018.	3.3	197
9	Mammalian 5â€²-Capped MicroRNA Precursors that Generate a Single MicroRNA. Cell, 2013, 155, 1568-1580.	13.5	189
10	Viral noncoding RNAs: more surprises. Genes and Development, 2015, 29, 567-584.	2.7	170
11	Structural Basis for Target-Directed MicroRNA Degradation. Molecular Cell, 2019, 75, 1243-1255.e7.	4.5	163
12	Widespread Inducible Transcription Downstream of Human Genes. Molecular Cell, 2015, 59, 449-461.	4.5	156
13	Poly(A) Tail Recognition by a Viral RNA Element Through Assembly of a Triple Helix. Science, 2010, 330, 1244-1247.	6.0	144
14	Protein ligands mediate the CRM1-dependent export of HuR in response to heat shock. Rna, 2001, 7, 1348-1361.	1.6	138
15	EBV Noncoding RNA Binds Nascent RNA to Drive Host PAX5 to Viral DNA. Cell, 2015, 160, 607-618.	13.5	124
16	A Viral Nuclear Noncoding RNA Binds Re-localized Poly(A) Binding Protein and Is Required for Late KSHV Gene Expression. PLoS Pathogens, 2011, 7, e1002300.	2.1	110
17	Comparative analysis reveals genomic features of stress-induced transcriptional readthrough. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E8362-E8371.	3.3	103
18	A Kaposi's sarcoma virus RNA element that increases the nuclear abundance of intronless transcripts. EMBO Journal, 2005, 24, 1831-1841.	3.5	96

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19	Identification of a Rapid Mammalian Deadenylation-Dependent Decay Pathway and Its Inhibition by a Viral RNA Element. Molecular Cell, 2006, 24, 943-953.	4.5	95
20	Virus Meets Host MicroRNA: the Destroyer, the Booster, the Hijacker. Molecular and Cellular Biology, 2014, 34, 3780-3787.	1.1	88
21	Direct physical evidence for secondary structure in an isolated fragment of R17 bacteriophage mRNA. Nature, 1974, 248, 204-208.	13.7	87
22	Conservation of a Triple-Helix-Forming RNA Stability Element in Noncoding and Genomic RNAs of Diverse Viruses. Cell Reports, 2012, 2, 26-32.	2.9	81
23	A new interaction between the mouse 5â€² external transcribed spacer of pre-rRNA and U3 snRNA detected by psoralen crosslinking. Nucleic Acids Research, 1992, 20, 5375-5382.	6.5	65
24	Hyperosmotic stress alters the RNA polymerase II interactome and induces readthrough transcription despite widespread transcriptional repression. Molecular Cell, 2021, 81, 502-513.e4.	4.5	61
25	EBV noncoding RNA EBER2 interacts with host RNA-binding proteins to regulate viral gene expression. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 3221-3226.	3.3	60
26	Nucleotide sequence of Î³Î´ resolvase gene and demonstration that its gene product acts as a repressor of transcription. Nature, 1982, 300, 381-383.	13.7	58
27	An Exportin-1â€“dependent microRNA biogenesis pathway during human cell quiescence. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E4961-E4970.	3.3	57
28	Alternative Capture of Noncoding RNAs or Protein-Coding Genes by Herpesviruses to Alter Host T Cell Function. Molecular Cell, 2014, 54, 67-79.	4.5	55
29	miRNPs: versatile regulators of gene expression in vertebrate cells. Biochemical Society Transactions, 2009, 37, 931-935.	1.6	54
30	Mutational analysis of a viral RNA element that counteracts rapid RNA decay by interaction with the polyadenylate tail. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 10412-10417.	3.3	53
31	Versatile microRNA biogenesis in animals and their viruses. RNA Biology, 2014, 11, 673-681.	1.5	52
32	SARS-CoV-2 expresses a microRNA-like small RNA able to selectively repress host genes. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	52
33	The host Integrator complex acts in transcription-independent maturation of herpesvirus microRNA 3â€² ends. Genes and Development, 2015, 29, 1552-1564.	2.7	44
34	A heterotrimer model of the complete Microprocessor complex revealed by single-molecule subunit counting. Rna, 2016, 22, 175-183.	1.6	43
35	RNA families in Epsteinâ€“Barr virus. RNA Biology, 2014, 11, 10-17.	1.5	42
36	Readthrough transcription: How are DoGs made and what do they do?. RNA Biology, 2017, 14, 632-636.	1.5	37

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37	Fluorescence Amplification Method for Forward Genetic Discovery of Factors in Human mRNA Degradation. Molecular Cell, 2017, 65, 191-201.	4.5	34
38	Settling the m⁶A debate: methylation of mature mRNA is not dynamic but accelerates turnover. Genes and Development, 2017, 31, 957-958.	2.7	30
39	RNA processing: Lessons from mutant globins. Nature, 1983, 303, 380-381.	13.7	29
40	RNA stabilization by a poly(A) tail 3â€²-end binding pocket and other modes of poly(A)-RNA interaction. Science, 2021, 371, .	6.0	29
41	Noncoding RNPs of Viral Origin. Cold Spring Harbor Perspectives in Biology, 2011, 3, a005165-a005165.	2.3	28
42	Deciphering the mysteries of RNA-containing lupus antigens. Arthritis and Rheumatism, 1982, 25, 761-766.	6.7	26
43	A proximity-dependent assay for specific RNAâ€“protein interactions in intact cells. Rna, 2016, 22, 1785-1792.	1.6	25
44	Specific recognition of the isolated R17 replicase initiator region by R17 coat protein. Nature, 1974, 248, 223-225.	13.7	24
45	Myriad Triple-Helix-Forming Structures in the Transposable Element RNAs of Plants and Fungi. Cell Reports, 2016, 15, 1266-1276.	2.9	24
46	Hoogsteen-position pyrimidines promote the stability and function of the MALAT1 RNA triple helix. Rna, 2016, 22, 743-749.	1.6	24
47	Proteomics and Transcriptomics of BJAB Cells Expressing the Epstein-Barr Virus Noncoding RNAs EBER1 and EBER2. PLoS ONE, 2015, 10, e0124638.	1.1	22
48	3â€²-Biotin-tagged microRNA-27 does not associate with Argonaute proteins in cells. Rna, 2014, 20, 985-988.	1.6	21
49	How Complementary Targets Expose the microRNA 3â€² End for Tailing and Trimming during Target-Directed microRNA Degradation. Cold Spring Harbor Symposia on Quantitative Biology, 2019, 84, 179-183.	2.0	21
50	Idiosyncrasies of Viral Noncoding RNAs Provide Insights into Host Cell Biology. Annual Review of Virology, 2019, 6, 297-317.	3.0	20
51	Host miRNA degradation by Herpesvirus saimiri small nuclear RNA requires an unstructured interacting region. Rna, 2016, 22, 1181-1189.	1.6	18
52	Who let the DoGs out? â€“ biogenesis of stress-induced readthrough transcripts. Trends in Biochemical Sciences, 2022, 47, 206-217.	3.7	18
53	Commentary: Bio2010â€”New Challenges for Biology Educators. CBE: Life Sciences Education, 2003, 2, 87-91.	0.7	17
54	Two herpesviral noncoding PAN RNAs are functionally homologous but do not associate with common chromatin loci. PLoS Pathogens, 2018, 14, e1007389.	2.1	17

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55	Nuclear Translocation and Regulation of Intranuclear Distribution of Cytoplasmic Poly(A)-Binding Protein Are Distinct Processes Mediated by Two Epstein Barr Virus Proteins. PLoS ONE, 2014, 9, e92593.	1.1	16
56	STL-seq reveals pause-release and termination kinetics for promoter-proximal paused RNA polymerase II transcripts. Molecular Cell, 2021, 81, 4398-4412.e7.	4.5	16
57	Noncoding RNAâ€guided recruitment of transcription factors: A prevalent but undocumented mechanism?. BioEssays, 2015, 37, 936-941.	1.2	14
58	Herpesvirus saimiri MicroRNAs Preferentially Target Host Cell Cycle Regulators. Journal of Virology, 2015, 89, 10901-10911.	1.5	14
59	Structural analyses of an RNA stability element interacting with poly(A). Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	13
60	RNAâ€“RNA base-pairing: theme and variations. Rna, 2015, 21, 476-477.	1.6	11
61	Kaposi's Sarcoma-Associated Herpesvirus mRNA Accumulation in Nuclear Foci Is Influenced by Viral DNA Replication and Viral Noncoding Polyadenylated Nuclear RNA. Journal of Virology, 2018, 92, .	1.5	11
62	Calcium signaling and transcription: elongation, DoGs, and eRNAs. Receptors & Clinical Investigation, 2016, 3, .	0.9	8
63	In silico discovery and modeling of non-coding RNA structure in viruses. Methods, 2015, 91, 48-56.	1.9	5
64	Intronless Î²-Globin Reporter: A Tool for Studying Nuclear RNA Stability Elements. Methods in Molecular Biology, 2016, 1428, 77-92.	0.4	4
65	tRNA-like leader-trailer interaction promotes 3â€²-end maturation of MALAT1. Rna, 2021, 27, 1140-1147.	1.6	4
66	Modulation of mRNA 3â€²-End Processing and Transcription Termination in Virus-Infected Cells. Frontiers in Immunology, 2022, 13, 828665.	2.2	4
67	Quantitative Fluorescence In Situ Hybridization (FISH) and Immunofluorescence (IF) of Specific Gene Products in KSHV-Infected Cells. Journal of Visualized Experiments, 2019, , .	0.2	3
68	Caution needs to be taken when assigning transcription start sites to ends of protein-coding genes: a rebuttal. Human Genomics, 2018, 12, 32.	1.4	0
69	RNA determinants and protein components of the histone preâ€mRNA processing machinery. FASEB Journal, 2006, 20, A930.	0.2	0
70	Noncoding RNAs: small, large and viral. FASEB Journal, 2015, 29, 21.1.	0.2	0
71	A general two-metal-ion mechanism for catalytic RNA. journal of hand surgery Asian-Pacific volume, The, 2020, , 597-601.	0.2	0