

Yi Pei

List of Publications by Year in descending order

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28
papers

3,043
citations

304368

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500791

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docs citations

29
times ranked

3248
citing authors

#	ARTICLE	IF	CITATIONS
1	Structural basis for 5' end-specific recognition of guide RNA by the <i>A. fulgidus</i> Piwi protein. <i>Nature</i> , 2005, 434, 666-670.	13.7	596
2	Cucumber mosaic virus-encoded 2b suppressor inhibits <i>Arabidopsis</i> Argonaute1 cleavage activity to counter plant defense. <i>Genes and Development</i> , 2006, 20, 3255-3268.	2.7	589
3	Crystal Structure of <i>A. aeolicus</i> Argonaute, a Site-Specific DNA-Guided Endoribonuclease, Provides Insights into RISC-Mediated mRNA Cleavage. <i>Molecular Cell</i> , 2005, 19, 405-419.	4.5	349
4	On the art of identifying effective and specific siRNAs. <i>Nature Methods</i> , 2006, 3, 670-676.	9.0	269
5	Strand-specific 5' O-methylation of siRNA duplexes controls guide strand selection and targeting specificity. <i>Rna</i> , 2008, 14, 263-274.	1.6	174
6	Interactions between Fission Yeast mRNA Capping Enzymes and Elongation Factor Spt5. <i>Journal of Biological Chemistry</i> , 2002, 277, 19639-19648.	1.6	122
7	5' Vinylphosphonate: A Stable Phosphate Mimic Can Improve the RNAi Activity of siRNA-GalNAc Conjugates. <i>ChemBioChem</i> , 2016, 17, 985-989.	1.3	95
8	Yeast and Viral RNA 5' Triphosphatases Comprise a New Nucleoside Triphosphatase Family. <i>Journal of Biological Chemistry</i> , 1998, 273, 34151-34156.	1.6	77
9	Quantitative evaluation of siRNA delivery in vivo. <i>Rna</i> , 2010, 16, 2553-2563.	1.6	66
10	The Length, Phosphorylation State, and Primary Structure of the RNA Polymerase II Carboxyl-terminal Domain Dictate Interactions with mRNA Capping Enzymes. <i>Journal of Biological Chemistry</i> , 2001, 276, 28075-28082.	1.6	64
11	Characterization of the <i>Schizosaccharomyces pombe</i> Cdk9/Pch1 Protein Kinase. <i>Journal of Biological Chemistry</i> , 2003, 278, 43346-43356.	1.6	61
12	Interactions between Fission Yeast Cdk9, Its Cyclin Partner Pch1, and mRNA Capping Enzyme Pct1 Suggest an Elongation Checkpoint for mRNA Quality Control. <i>Journal of Biological Chemistry</i> , 2003, 278, 7180-7188.	1.6	61
13	Effective siRNA delivery and target mRNA degradation using an amphipathic peptide to facilitate pH-dependent endosomal escape. <i>Biochemical Journal</i> , 2011, 435, 475-487.	1.7	59
14	Separable Functions of the Fission Yeast Spt5 Carboxyl-Terminal Domain (CTD) in Capping Enzyme Binding and Transcription Elongation Overlap with Those of the RNA Polymerase II CTD. <i>Molecular and Cellular Biology</i> , 2010, 30, 2353-2364.	1.1	57
15	Cyclin-Dependent Kinase 9 (Cdk9) of Fission Yeast Is Activated by the CDK-Activating Kinase Csk1, Overlaps Functionally with the TFIIF-Associated Kinase Mcs6, and Associates with the mRNA Cap Methyltransferase Pcm1 In Vivo. <i>Molecular and Cellular Biology</i> , 2006, 26, 777-788.	1.1	51
16	Mutational Analysis of Bacteriophage T4 RNA Ligase 1. <i>Journal of Biological Chemistry</i> , 2003, 278, 29454-29462.	1.6	47
17	A Potential Protein-RNA Recognition Event along the RISC-Loading Pathway from the Structure of <i>A. aeolicus</i> Argonaute with Externally Bound siRNA. <i>Structure</i> , 2006, 14, 1557-1565.	1.6	45
18	Mutational Analyses of Yeast RNA Triphosphatases Highlight a Common Mechanism of Metal-dependent NTP Hydrolysis and a Means of Targeting Enzymes to Pre-mRNAs in Vivo by Fusion to the Guanylyltransferase Component of the Capping Apparatus. <i>Journal of Biological Chemistry</i> , 1999, 274, 28865-28874.	1.6	44

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19	RNA-Induced Silencing Complex-Bound Small Interfering RNA Is a Determinant of RNA Interference-Mediated Gene Silencing in Mice. <i>Molecular Pharmacology</i> , 2011, 79, 953-963.	1.0	44
20	Characterization of <i>Schizosaccharomyces pombe</i> RNA triphosphatase. <i>Nucleic Acids Research</i> , 2001, 29, 387-396.	6.5	42
21	Structural Biology of RNA Silencing and Its Functional Implications. <i>Cold Spring Harbor Symposia on Quantitative Biology</i> , 2006, 71, 81-93.	2.0	33
22	Assessing the Heterogeneity Level in Lipid Nanoparticles for siRNA Delivery: Size-Based Separation, Compositional Heterogeneity, and Impact on Bioperformance. <i>Molecular Pharmaceutics</i> , 2013, 10, 397-405.	2.3	28
23	RNA triphosphatase is essential in <i>Schizosaccharomyces pombe</i> and <i>Candida albicans</i> . <i>BMC Microbiology</i> , 2001, 1, 29.	1.3	16
24	Homodimeric Quaternary Structure Is Required for the in Vivo Function and Thermal Stability of <i>Saccharomyces cerevisiae</i> and <i>Schizosaccharomyces pombe</i> RNA Triphosphatases. <i>Journal of Biological Chemistry</i> , 2003, 278, 30487-30496.	1.6	16
25	Characterization of the <i>Schizosaccharomyces pombe</i> Spt5-Spt4 complex. <i>Rna</i> , 2009, 15, 1241-1250.	1.6	16
26	Effect of biological matrix and sample preparation on qPCR quantitation of siRNA drugs in animal tissues. <i>Journal of Pharmacological and Toxicological Methods</i> , 2011, 63, 168-173.	0.3	13
27	Systematic chemical modifications of single stranded siRNAs significantly improved CTNNB1 mRNA silencing. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2016, 26, 4513-4517.	1.0	7
28	Live Cell Membranome cDNA Screen: A Novel Homogenous Live Cell Binding Assay to Study Membrane Protein-Ligand Interaction. <i>SLAS Discovery</i> , 2019, 24, 978-986.	1.4	2