Maria L Kireeva

List of Publications by Year
in descending order

57 papers	4,633 citations	147801 31 h-index	149698 56 g-index
58 all docs	58 docs citations	58 times ranked	3721 citing authors

#	Article	IF	Citations
1	CYR61, a product of a growth factor-inducible immediate early gene, promotes angiogenesis and tumor growth. Proceedings of the National Academy of Sciences of the United States of America, 1998, 95, 6355-6360.	7.1	432
2	Nucleosome Remodeling Induced by RNA Polymerase II. Molecular Cell, 2002, 9, 541-552.	9.7	419
3	Cyr61, a Product of a Growth Factor-Inducible Immediate-Early Gene, Promotes Cell Proliferation, Migration, and Adhesion. Molecular and Cellular Biology, 1996, 16, 1326-1334.	2.3	309
4	Cyr61 and Fisp12 Are Both ECM-Associated Signaling Molecules: Activities, Metabolism, and Localization during Development. Experimental Cell Research, 1997, 233, 63-77.	2.6	243
5	The 8-Nucleotide-long RNA:DNA Hybrid Is a Primary Stability Determinant of the RNA Polymerase II Elongation Complex. Journal of Biological Chemistry, 2000, 275, 6530-6536.	3.4	200
6	Nature of the Nucleosomal Barrier to RNA Polymerase II. Molecular Cell, 2005, 18, 97-108.	9.7	198
7	Activation-dependent Adhesion of Human Platelets to Cyr61 and Fisp12/Mouse Connective Tissue Growth Factor Is Mediated through Integrin Î±IIbÎ²3. Journal of Biological Chemistry, 1999, 274, 24321-24327.	3.4	196
8	Adhesion of Human Umbilical Vein Endothelial Cells to the Immediate-Early Gene Product Cyr61 Is Mediated through Integrin Î±vÎ²3. Journal of Biological Chemistry, 1998, 273, 3090-3096.	3.4	192
9	Transient Reversal of RNA Polymerase II Active Site Closing Controls Fidelity of Transcription Elongation. Molecular Cell, 2008, 30, 557-566.	9.7	154
10	Cyr61, Product of a Growth Factor-Inducible Immediate-Early Gene, Regulates Chondrogenesis in Mouse Limb Bud Mesenchymal Cells. Developmental Biology, 1997, 192, 492-508.	2.0	140
11	Shortening of RNA:DNA Hybrid in the Elongation Complex of RNA Polymerase Is a Prerequisite for Transcription Termination. Molecular Cell, 2002, 10, 1151-1162.	9.7	130
12	Sensitivity of Mitochondrial Transcription and Resistance of RNA Polymerase II Dependent Nuclear Transcription to Antiviral Ribonucleosides. PLoS Pathogens, 2012, 8, e1003030.	4.7	119
13	Co-transcriptional Assembly of Chemically Modified RNA Nanoparticles Functionalized with siRNAs. Nano Letters, 2012, 12, 5192-5195.	9.1	117
14	Synergistic action of RNA polymerases in overcoming the nucleosomal barrier. Nature Structural and Molecular Biology, 2010, 17, 745-752.	8.2	114
15	Complete dissection of transcription elongation reveals slow translocation of RNA polymerase II in a linear ratchet mechanism. ELife, 2013, 2, e00971.	6.0	111
16	Mechanism of Translesion Transcription by RNA Polymerase II and Its Role in Cellular Resistance to DNA Damage. Molecular Cell, 2012, 46, 18-29.	9.7	104
17	Mechanism of sequence-specific pausing of bacterial RNA polymerase. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 8900-8905.	7.1	100
18	Triggering of RNA Interference with RNAâ€"RNA, RNAâ€"DNA, and DNAâ€"RNA Nanoparticles. ACS Nano, 2015, 9, 251-259.	14.6	100

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19	Mutations in the Saccharomyces cerevisiae RPB1 Gene Conferring Hypersensitivity to 6-Azauracil. Genetics, 2006, 172, 2201-2209.	2.9	96
20	Chromatin remodeling by RNA polymerases. Trends in Biochemical Sciences, 2004, 29, 127-135.	7.5	88
21	<i>In Silico</i> Design and Enzymatic Synthesis of Functional RNA Nanoparticles. Accounts of Chemical Research, 2014, 47, 1731-1741.	15.6	80
22	Engineering of Elongation Complexes of Bacterial and Yeast RNA Polymerases. Methods in Enzymology, 2003, 371, 233-251.	1.0	78
23	Rpb9 Subunit Controls Transcription Fidelity by Delaying NTP Sequestration in RNA Polymerase II. Journal of Biological Chemistry, 2009, 284, 19601-19612.	3.4	74
24	Co-transcriptional production of RNAâ€“DNA hybrids for simultaneous release of multiple split functionalities. Nucleic Acids Research, 2014, 42, 2085-2097.	14.5	54
25	Overextended RNA:DNA hybrid as a negative regulator of RNA polymerase II processivity 1 1Edited by R. Ebright. Journal of Molecular Biology, 2000, 299, 325-335.	4.2	52
26	Bacterial Polymerase and Yeast Polymerase II Use Similar Mechanisms for Transcription through Nucleosomes. Journal of Biological Chemistry, 2003, 278, 36148-36156.	3.4	51
27	Effects of Friedreich's ataxia (GAA)n{middle dot}(TTC)n repeats on RNA synthesis and stability. Nucleic Acids Research, 2007, 35, 1075-1084.	14.5	49
28	Assays and Affinity Purification of Biotinylated and Nonbiotinylated Forms of Double-Tagged Core RNA Polymerase II from Saccharomyces cerevisiae. Methods in Enzymology, 2003, 370, 138-155.	1.0	45
29	Translocation by multi-subunit RNA polymerases. Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms, 2010, 1799, 389-401.	1.9	43
30	Circularly permuted dihydrofolate reductase of E.coli has functional activity and a destabilized tertiary structure. Protein Engineering, Design and Selection, 1994, 7, 1373-1377.	2.1	38
31	Intrinsic Translocation Barrier as an Initial Step in Pausing by RNA Polymerase II. Journal of Molecular Biology, 2013, 425, 697-712.	4.2	38
32	NusG controls transcription pausing and RNA polymerase translocation throughout the <i>Bacillus subtilis</i> genome. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 21628-21636.	7.1	38
33	Molecular dynamics and mutational analysis of the catalytic and translocation cycle of RNA polymerase. BMC Biophysics, 2012, 5, 11.	4.4	35
34	Conformational coupling, bridge helix dynamics and active site dehydration in catalysis by RNA polymerase. Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms, 2010, 1799, 575-587.	1.9	34
35	The RNA polymerase bridge helix YFI motif in catalysis, fidelity and translocation. Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms, 2013, 1829, 187-198.	1.9	31
36	The Fidelity of Transcription. Journal of Biological Chemistry, 2013, 288, 2689-2699.	3.4	30

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37	Coliphage HK022 Nun protein inhibits RNA polymerase translocation. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, E2368-75.	7.1	28
38	Millisecond phase kinetic analysis of elongation catalyzed by human, yeast, and Escherichia coli RNA polymerase. Methods, 2009, 48, 333-345.	3.8	27
39	A Genetic Assay for Transcription Errors Reveals Multilayer Control of RNA Polymerase II Fidelity. PLoS Genetics, 2014, 10, e1004532.	3.5	26
40	A <i>Cre</i> Transcription Fidelity Reporter Identifies GreA as a Major RNA Proofreading Factor in <i>Escherichia coli</i>. Genetics, 2017, 206, 179-187.	2.9	26
41	Interaction of RNA Polymerase II Fork Loop 2 with Downstream Non-template DNA Regulates Transcription Elongation. Journal of Biological Chemistry, 2011, 286, 30898-30910.	3.4	25
42	Expression of SARS-CoV-2 surface glycoprotein fragment 319â€“640 in E. coli, and its refolding and purification. Protein Expression and Purification, 2021, 183, 105861.	1.3	25
43	Productive mRNA stem loop-mediated transcriptional slippage: Crucial features in common with intrinsic terminators. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E1984-93.	7.1	20
44	Site-directed mutagenesis, purification and assay of Saccharomyces cerevisiae RNA polymerase II. Protein Expression and Purification, 2010, 69, 83-90.	1.3	17
45	IgG Antibodies Develop to Spike but Not to the Nucleocapsid Viral Protein in Many Asymptomatic and Light COVID-19 Cases. Viruses, 2021, 13, 1945.	3.3	16
46	Novel data on interactions of elongation factor Ts. Biochimie, 1992, 74, 419-425.	2.6	15
47	Assay of the Fate of the Nucleosome During Transcription by RNA Polymerase II. Methods in Enzymology, 2003, 371, 564-577.	1.0	15
48	Computational and Experimental Studies of Reassociating RNA/DNA Hybrids Containing Split Functionalities. Methods in Enzymology, 2015, 553, 313-334.	1.0	12
49	RNAâ€“DNA and DNAâ€“DNA base-pairing at the upstream edge of the transcription bubble regulate translocation of RNA polymerase and transcription rate. Nucleic Acids Research, 2018, 46, 5764-5775.	14.5	12
50	RNA Polymerase Structure, Function, Regulation, Dynamics, Fidelity, and Roles in GENE EXPRESSION. Chemical Reviews, 2013, 113, 8325-8330.	47.7	8
51	Dual-Antigen System Allows Elimination of False Positive Results in COVID-19 Serological Testing. Diagnostics, 2021, 11, 102.	2.6	8
52	Production and characterization of a highly pure RNA polymerase holoenzyme from Mycobacterium tuberculosis. Protein Expression and Purification, 2017, 134, 1-10.	1.3	7
53	The Role of Pyrophosphorolysis in the Initiation-to-Elongation Transition by E. coli RNA Polymerase. Journal of Molecular Biology, 2019, 431, 2528-2542.	4.2	7
54	Cotranscriptional Production of Chemically Modified RNA Nanoparticles. Methods in Molecular Biology, 2017, 1632, 91-105.	0.9	4

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55	Direct Competition Assay for Transcription Fidelity. Methods in Molecular Biology, 2015, 1276, 153-164.	0.9	2
56	BNT162b2, mRNA-1273, and Sputnik V Vaccines Induce Comparable Immune Responses on a Par With Severe Course of COVID-19. Frontiers in Immunology, 2022, 13, 797918.	4.8	1
57	RNA Polymerases and Transcription. , 2018, , 1-9.		0