

Roger D Kornberg

List of Publications by Year in descending order

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Version: 2024-02-01

50
papers

5,460
citations

147801

31
h-index

233421

45
g-index

54
all docs

54
docs citations

54
times ranked

5881
citing authors

#	ARTICLE	IF	CITATIONS
1	Mediator and the mechanism of transcriptional activation. Trends in Biochemical Sciences, 2005, 30, 235-239.	7.5	503
2	Synthetic peptides as nuclear localization signals. Nature, 1986, 322, 641-644.	27.8	488
3	Mediator of Transcriptional Regulation. Annual Review of Biochemistry, 2000, 69, 729-749.	11.1	358
4	Two-dimensional crystallization technique for imaging macromolecules, with application to antigen-antibody-complement complexes. Nature, 1983, 301, 125-129.	27.8	356
5	A mediator required for activation of RNA polymerase II transcription in vitro. Nature, 1991, 350, 436-438.	27.8	356
6	The molecular basis of eukaryotic transcription. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 12955-12961.	7.1	355
7	Electron microscopy of gold nanoparticles at atomic resolution. Science, 2014, 345, 909-912.	12.6	269
8	Chromatin Structure and Transcription. Annual Review of Cell Biology, 1992, 8, 563-587.	26.1	252
9	Structure of a Complete Mediator-RNA Polymerase II Pre-Initiation Complex. Cell, 2016, 166, 1411-1422.e16.	28.9	200
10	Transcription factor b (TFIIH) is required during nucleotide-excision repair in yeast. Nature, 1994, 368, 74-76.	27.8	176
11	Cell biology: An unfolding story of protein translocation. Nature, 1986, 322, 209-210.	27.8	150
12	Polycomb-mediated chromatin loops revealed by a subkilobase-resolution chromatin interaction map. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 8764-8769.	7.1	150
13	Molecular architecture of the yeast Mediator complex. ELife, 2015, 4, .	6.0	136
14	Stable Chromosome Condensation Revealed by Chromosome Conformation Capture. Cell, 2015, 163, 934-946.	28.9	134
15	3D genomics across the tree of life reveals condensin II as a determinant of architecture type. Science, 2021, 372, 984-989.	12.6	132
16	Effects of activation-defective TBP mutations on transcription initiation in yeast. Nature, 1994, 369, 252-255.	27.8	123
17	Role of DNA sequence in chromatin remodeling and the formation of nucleosome-free regions. Genes and Development, 2014, 28, 2492-2497.	5.9	107
18	Structure of the Mediator Head module bound to the carboxy-terminal domain of RNA polymerase II. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 17931-17935.	7.1	106

#	ARTICLE	IF	CITATIONS
19	Primary Role of the Nucleosome. <i>Molecular Cell</i> , 2020, 79, 371-375.	9.7	104
20	Structure of an RNA polymerase II preinitiation complex. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 13543-13548.	7.1	95
21	Real-time observation of the initiation of RNA polymerase II transcription. <i>Nature</i> , 2015, 525, 274-277.	27.8	90
22	Double-flow focused liquid injector for efficient serial femtosecond crystallography. <i>Scientific Reports</i> , 2017, 7, 44628.	3.3	90
23	Simple biochemical features underlie transcriptional activation domain diversity and dynamic, fuzzy binding to Mediator. <i>ELife</i> , 2021, 10, .	6.0	87
24	Synthesis of Water-Soluble, Thiolate-Protected Gold Nanoparticles Uniform in Size. <i>Nano Letters</i> , 2016, 16, 3348-3351.	9.1	62
25	Epitaxial growth of protein crystals on lipid layers. <i>Nature Structural Biology</i> , 1994, 1, 195-197.	9.7	54
26	Variable center to center distance of nucleosomes in chromatin. <i>Journal of Molecular Biology</i> , 1982, 154, 515-523.	4.2	53
27	Chromatin potentiates transcription. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 1536-1541.	7.1	52
28	Chromatin-remodeling for transcription. <i>Quarterly Reviews of Biophysics</i> , 2017, 50, e5.	5.7	52
29	Structure Determination of a Water-Soluble 144-Gold Atom Particle at Atomic Resolution by Aberration-Corrected Electron Microscopy. <i>ACS Nano</i> , 2017, 11, 11866-11871.	14.6	47
30	Uncoupling Promoter Opening from Start-Site Scanning. <i>Molecular Cell</i> , 2015, 59, 133-138.	9.7	37
31	Chromatin-remodeling and the initiation of transcription. <i>Quarterly Reviews of Biophysics</i> , 2015, 48, 465-470.	5.7	35
32	Chromatin and transcription: where do we go from here?. <i>Current Opinion in Genetics and Development</i> , 2002, 12, 249-251.	3.3	32
33	On the importance of accounting for nuclear quantum effects in ab initio calibrated force fields in biological simulations. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 8878-8882.	7.1	32
34	The Molecular Basis of Eukaryotic Transcription (Nobel Lecture). <i>Angewandte Chemie - International Edition</i> , 2007, 46, 6956-6965.	13.8	27
35	FGF21 trafficking in intact human cells revealed by cryo-electron tomography with gold nanoparticles. <i>ELife</i> , 2019, 8, .	6.0	25
36	Histone Acetylation Inhibits RSC and Stabilizes the +1 Nucleosome. <i>Molecular Cell</i> , 2018, 72, 594-600.e2.	9.7	21

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37	Single-particle selection and alignment with heavy atom cluster-antibody conjugates. Proceedings of the National Academy of Sciences of the United States of America, 1998, 95, 9262-9267.	7.1	20
38	Structure of mitotic chromosomes. Molecular Cell, 2021, 81, 4369-4376.e3.	9.7	18
39	Mediator structure and conformation change. Molecular Cell, 2021, 81, 1781-1788.e4.	9.7	15
40	Accurate determination of solvation free energies of neutral organic compounds from first principles. Nature Communications, 2022, 13, 414.	12.8	14
41	Israelâ€™s Gaza conflict. Lancet, The, 2014, 384, e34-e37.	13.7	6
42	Harnessing coronavirus spike proteins' binding affinity to ACE2 receptor through a novel baculovirus surface display system. Biochemical and Biophysical Research Communications, 2022, 606, 23-28.	2.1	4
43	Gold nanoparticles and tilt pairs to assess protein flexibility by cryo-electron microscopy. Ultramicroscopy, 2021, 227, 113302.	1.9	3
44	Structure of Wild Type Yeast RNA Polymerase II and Location of RPB4 and RPB7. Microscopy and Microanalysis, 1998, 4, 972-973.	0.4	1
45	Structure of the Eukaryotic Transcription Machinery: Insights into the Mechanism of Transcription Initiation and Regulation. Microscopy and Microanalysis, 2002, 8, 202-203.	0.4	0
46	IID in 3D: Improved Resolution of Transcription Factor Structure by Cryo-Electron Microscopy. Biochemistry, 2019, 58, 2653-2654.	2.5	0
47	Structural basis of RNA polymerase II substrate specificity and catalysis. FASEB Journal, 2007, 21, A656.	0.5	0
48	The Challenge of Quasi-Regular Structures in Biology. , 2008, , 137-143.		0
49	Structures of RNA polymerase II â€™TFIIF and Mediator complexes. FASEB Journal, 2009, 23, 79.3.	0.5	0
50	DNA Binding Kinetics of CTCF <i>in vitro</i> . FASEB Journal, 2018, 32, 523.6.	0.5	0