

Peter Cook

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

111 papers	8,581 citations	49 h-index	92 g-index
121 ext. papers	9,482 ext. citations	10.6 avg, IF	6.35 L-index

#	Paper	IF	Citations
111	The organization of replication and transcription. <i>Science</i> , 1999 , 284, 1790-5	33.3	636
110	Kinetics of core histones in living human cells: little exchange of H3 and H4 and some rapid exchange of H2B. <i>Journal of Cell Biology</i> , 2001 , 153, 1341-53	7.3	547
109	Visualization of replication factories attached to nucleoskeleton. <i>Cell</i> , 1993 , 73, 361-73	56.2	417
108	Coupled transcription and translation within nuclei of mammalian cells. <i>Science</i> , 2001 , 293, 1139-42	33.3	313
107	The depletion attraction: an underappreciated force driving cellular organization. <i>Journal of Cell Biology</i> , 2006 , 175, 681-6	7.3	261
106	Numbers and organization of RNA polymerases, nascent transcripts, and transcription units in HeLa nuclei. <i>Molecular Biology of the Cell</i> , 1998 , 9, 1523-36	3.5	252
105	Visualization of focal sites of transcription within human nuclei. <i>EMBO Journal</i> , 1993 , 12, 1059-65	13	242
104	RNA is synthesized at the nuclear cage. <i>Nature</i> , 1981 , 292, 552-5	50.4	231
103	Exon Skipping Is Correlated with Exon Circularization. <i>Journal of Molecular Biology</i> , 2015 , 427, 2414-2417	6.5	228
102	The transcription cycle of RNA polymerase II in living cells. <i>Journal of Cell Biology</i> , 2002 , 159, 777-82	7.3	215
101	Regional specialization in human nuclei: visualization of discrete sites of transcription by RNA polymerase III. <i>EMBO Journal</i> , 1999 , 18, 2241-53	13	199
100	The nucleoskeleton and the topology of replication. <i>Cell</i> , 1991 , 66, 627-35	56.2	197
99	A model for all genomes: the role of transcription factories. <i>Journal of Molecular Biology</i> , 2010 , 395, 1-10	6.5	190
98	Conformational constraints in nuclear DNA. <i>Journal of Cell Science</i> , 1976 , 22, 287-302	5.3	183
97	Transcription factories: genome organization and gene regulation. <i>Chemical Reviews</i> , 2013 , 113, 8683-708	68.1	157
96	Direct imaging of DNA in living cells reveals the dynamics of chromosome formation. <i>Journal of Cell Biology</i> , 1999 , 144, 813-21	7.3	149
95	Nonspecific bridging-induced attraction drives clustering of DNA-binding proteins and genome organization. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, E3605-11	11.5	145

94	Entropy-driven genome organization. <i>Biophysical Journal</i> , 2006 , 90, 3712-21	2.9	138
93	Multiscale spatial organization of RNA polymerase in Escherichia coli. <i>Biophysical Journal</i> , 2013 , 105, 172-81	2.9	135
92	Predicting three-dimensional genome structure from transcriptional activity. <i>Nature Genetics</i> , 2002 , 32, 347-52	36.3	134
91	Quantitation of RNA polymerase II and its transcription factors in an HeLa cell: little soluble holoenzyme but significant amounts of polymerases attached to the nuclear substructure. <i>Molecular and Cellular Biology</i> , 1999 , 19, 5383-92	4.8	132
90	A wave of nascent transcription on activated human genes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 18357-61	11.5	129
89	Similar active genes cluster in specialized transcription factories. <i>Journal of Cell Biology</i> , 2008 , 181, 615-23	23.3	122
88	Entropic organization of interphase chromosomes. <i>Journal of Cell Biology</i> , 2009 , 186, 825-34	7.3	119
87	Regional and temporal specialization in the nucleus: a transcriptionally-active nuclear domain rich in PTF, Oct1 and PIKA antigens associates with specific chromosomes early in the cell cycle. <i>EMBO Journal</i> , 1998 , 17, 1768-78	13	105
86	Simulated binding of transcription factors to active and inactive regions folds human chromosomes into loops, rosettes and topological domains. <i>Nucleic Acids Research</i> , 2016 , 44, 3503-12	20.1	103
85	TNF β signals through specialized factories where responsive coding and miRNA genes are transcribed. <i>EMBO Journal</i> , 2012 , 31, 4404-14	13	93
84	What are the molecular ties that maintain genomic loops?. <i>Trends in Genetics</i> , 2007 , 23, 126-33	8.5	90
83	Enhancers and silencers: an integrated and simple model for their function. <i>Epigenetics and Chromatin</i> , 2012 , 5, 1	5.8	87
82	The nucleoskeleton and the topology of transcription. <i>FEBS Journal</i> , 1989 , 185, 487-501		87
81	4-Picoline-2,2',6,6'-terpyridine-platinum(II) - a potent intercalator of DNA. <i>FEBS Letters</i> , 1996 , 380, 73-8	3.8	83
80	Spectrofluorometric measurement of the binding of ethidium to superhelical DNA from cell nuclei. <i>FEBS Journal</i> , 1978 , 84, 465-77		82
79	Nonequilibrium Chromosome Looping via Molecular Slip Links. <i>Physical Review Letters</i> , 2017 , 119, 138104	1.4	81
78	Active RNA polymerases: mobile or immobile molecular machines?. <i>PLoS Biology</i> , 2010 , 8, e1000419	9.7	76
77	Correlative fluorescence and electron microscopy on ultrathin cryosections: bridging the resolution gap. <i>Journal of Histochemistry and Cytochemistry</i> , 2001 , 49, 803-8	3.4	73

76	RNA polymerase II activity is located on the surface of protein-rich transcription factories. <i>Journal of Cell Science</i> , 2008 , 121, 1999-2007	5.3	68
75	Stable correction of a genetic deficiency in human cells by an episome carrying a 115 kb genomic transgene. <i>Nature Biotechnology</i> , 2000 , 18, 1311-4	44.5	68
74	The proteomes of transcription factories containing RNA polymerases I, II or III. <i>Nature Methods</i> , 2011 , 8, 963-8	21.6	67
73	Sequences attaching loops of nuclear and mitochondrial DNA to underlying structures in human cells: the role of transcription units. <i>Nucleic Acids Research</i> , 1996 , 24, 1212-9	20.1	65
72	Why the activity of a gene depends on its neighbors. <i>Trends in Genetics</i> , 2015 , 31, 483-90	8.5	63
71	Microfluidics with fluid walls. <i>Nature Communications</i> , 2017 , 8, 816	17.4	61
70	Transcription factories. <i>Biochemical Society Transactions</i> , 2008 , 36, 585-9	5.1	59
69	Nongenic transcription, gene regulation and action at a distance. <i>Journal of Cell Science</i> , 2003 , 116, 4483-91	5.1	59
68	Replication and transcription depend on attachment of DNA to the nuclear cage. <i>Journal of Cell Science</i> , 1984 , 1, 59-79	5.3	59
67	Transcription-driven genome organization: a model for chromosome structure and the regulation of gene expression tested through simulations. <i>Nucleic Acids Research</i> , 2018 , 46, 9895-9906	20.1	59
66	Molecular cross-talk between the transcription, translation, and nonsense-mediated decay machineries. <i>Journal of Cell Science</i> , 2004 , 117, 899-906	5.3	51
65	The topology of transcription by immobilized polymerases. <i>Experimental Cell Research</i> , 1996 , 229, 167-73	4.2	51
64	Depletion effects and loop formation in self-avoiding polymers. <i>Physical Review Letters</i> , 2006 , 97, 178302	7.4	49
63	A conserved organization of transcription during embryonic stem cell differentiation and in cells with high C value. <i>Molecular Biology of the Cell</i> , 2006 , 17, 2910-20	3.5	49
62	Bridging the resolution gap: Imaging the same transcription factories in cryosections by light and electron microscopy. <i>Journal of Histochemistry and Cytochemistry</i> , 1999 , 47, 471-80	3.4	49
61	Characterization of hypoxanthine-guanine phosphoribosyl transferase in man--mouse somatic cell hybrids by an improved electrophoretic method. <i>Biochemical Genetics</i> , 1971 , 5, 91-9	2.4	49
60	The role of specialized transcription factories in chromosome pairing. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2008 , 1783, 2155-60	4.9	48
59	RNA polymerase: structural determinant of the chromatin loop and the chromosome. <i>BioEssays</i> , 1994 , 16, 425-30	4.1	48

58	Transcription factories: structures conserved during differentiation and evolution. <i>Biochemical Society Transactions</i> , 2006 , 34, 1133-7	5.1	47
57	Different populations of RNA polymerase II in living mammalian cells. <i>Chromosome Research</i> , 2005 , 13, 135-44	4.4	45
56	The case for nuclear translation. <i>Journal of Cell Science</i> , 2004 , 117, 5713-20	5.3	44
55	The localization of sites containing nascent RNA and splicing factors. <i>Experimental Cell Research</i> , 1996 , 229, 201-3	4.2	44
54	Specialized transcription factories. <i>Biochemical Society Symposia</i> , 2006 , 67-75		43
53	Genome architecture and the role of transcription. <i>Current Opinion in Cell Biology</i> , 2010 , 22, 271-6	9	41
52	Ephemeral Protein Binding to DNA Shapes Stable Nuclear Bodies and Chromatin Domains. <i>Biophysical Journal</i> , 2017 , 112, 1085-1093	2.9	40
51	Active RNA polymerase I is fixed within the nucleus of HeLa cells.. <i>EMBO Journal</i> , 1990 , 9, 2207-2214	13	40
50	Many expressed genes in bacteria and yeast are transcribed only once per cell cycle. <i>FASEB Journal</i> , 2006 , 20, 1721-3	0.9	37
49	Shaping epigenetic memory via genomic bookmarking. <i>Nucleic Acids Research</i> , 2018 , 46, 83-93	20.1	36
48	Transcription factories, chromatin loops, and the dysregulation of gene expression in malignancy. <i>Seminars in Cancer Biology</i> , 2013 , 23, 65-71	12.7	34
47	The transcriptional basis of chromosome pairing. <i>Journal of Cell Science</i> , 1997 , 110 (Pt 9), 1033-40	5.3	34
46	Dynamic reconfiguration of long human genes during one transcription cycle. <i>Molecular and Cellular Biology</i> , 2012 , 32, 2738-47	4.8	32
45	A chromomeric model for nuclear and chromosome structure. <i>Journal of Cell Science</i> , 1995 , 108 (Pt 9), 2927-35	5.3	31
44	Fixing the model for transcription: the DNA moves, not the polymerase. <i>Transcription</i> , 2011 , 2, 41-4	4.8	30
43	Microfluidic chambers using fluid walls for cell biology. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, E5926-E5933	11.5	29
42	Extrusion without a motor: a new take on the loop extrusion model of genome organization. <i>Nucleus</i> , 2018 , 9, 95-103	3.9	27
41	Binding of nuclear factor B to noncanonical consensus sites reveals its multimodal role during the early inflammatory response. <i>Genome Research</i> , 2016 , 26, 1478-1489	9.7	27

40	Non-specific (entropic) forces as major determinants of the structure of mammalian chromosomes. <i>Chromosome Research</i> , 2011 , 19, 53-61	4.4	26
39	Splicing of many human genes involves sites embedded within introns. <i>Nucleic Acids Research</i> , 2015 , 43, 4721-32	20.1	25
38	Dissecting the nascent human transcriptome by analysing the RNA content of transcription factories. <i>Nucleic Acids Research</i> , 2015 , 43, e95	20.1	22
37	Most human proteins made in both nucleus and cytoplasm turn over within minutes. <i>PLoS ONE</i> , 2014 , 9, e99346	3.7	22
36	TNF β signalling primes chromatin for NF- κ B binding and induces rapid and widespread nucleosome repositioning. <i>Genome Biology</i> , 2014 , 15, 536	18.3	22
35	A simple model for DNA bridging proteins and bacterial or human genomes: bridging-induced attraction and genome compaction. <i>Journal of Physics Condensed Matter</i> , 2015 , 27, 064119	1.8	21
34	Space exploration by the promoter of a long human gene during one transcription cycle. <i>Nucleic Acids Research</i> , 2013 , 41, 2216-27	20.1	21
33	Transcription of superhelical DNA from cell nuclei. <i>FEBS Journal</i> , 1977 , 76, 63-78		21
32	The interdependence of nuclear structure and function. <i>Current Opinion in Cell Biology</i> , 2002 , 14, 780-5	9	20
31	The size of sites containing SR proteins in human nuclei. Problems associated with characterizing small structures by immunogold labeling. <i>Journal of Histochemistry and Cytochemistry</i> , 1998 , 46, 985-92	3.4	20
30	Isolation and characterization of monoclonal antibodies directed against subunits of human RNA polymerases I, II, and III. <i>Experimental Cell Research</i> , 2000 , 254, 163-72	4.2	19
29	Species Specificity of an Enzyme Determined by an Erythrocyte Nucleus in an Interspecific Hybrid Cell. <i>Journal of Cell Science</i> , 1970 , 7, 1-3	5.3	19
28	Modeling a self-avoiding chromatin loop: relation to the packing problem, action-at-a-distance, and nuclear context. <i>Structure</i> , 2006 , 14, 197-204	5.2	18
27	ON THE INHERITANCE OF DIFFERENTIATED TRAITS. <i>Biological Reviews</i> , 1974 , 49, 51-84	13.5	18
26	The superhelical density of nuclear DNA from human cells. <i>FEBS Journal</i> , 1977 , 74, 527-31		18
25	Transcription by an immobilized RNA polymerase from bacteriophage T7 and the topology of transcription. <i>Nucleic Acids Research</i> , 1992 , 20, 3591-8	20.1	17
24	"Dark matter" worlds of unstable RNA and protein. <i>Nucleus</i> , 2014 , 5, 281-6	3.9	16
23	A mutation in the largest (catalytic) subunit of RNA polymerase II and its relation to the arrest of the cell cycle in G(1) phase. <i>Gene</i> , 2001 , 274, 77-81	3.8	15

22	Raising fluid walls around living cells. <i>Science Advances</i> , 2019 , 5, eaav8002	14.3	14
21	Promoter type influences transcriptional topography by targeting genes to distinct nucleoplasmic sites. <i>Journal of Cell Science</i> , 2013 , 126, 2052-9	5.3	11
20	Isolation of the protein and RNA content of active sites of transcription from mammalian cells. <i>Nature Protocols</i> , 2016 , 11, 553-65	18.8	10
19	A model for reverse transcription by a dimeric enzyme. <i>Journal of General Virology</i> , 1993 , 74 (Pt 4), 691-7	4.9	9
18	Biocompatibility of fluids for multiphase drops-in-drops microfluidics. <i>Biomedical Microdevices</i> , 2016 , 18, 114	3.7	9
17	Photobleaching reveals complex effects of inhibitors on transcribing RNA polymerase II in living cells. <i>Experimental Cell Research</i> , 2007 , 313, 3026-33	4.2	8
16	Jet-Printing Microfluidic Devices on Demand. <i>Advanced Science</i> , 2020 , 7, 2001854	13.6	8
15	Applying microscopy to the analysis of nuclear structure and function. <i>Methods</i> , 2003 , 29, 131-41	4.6	7
14	Simulating topological domains in human chromosomes with a fitting-free model. <i>Nucleus</i> , 2016 , 7, 453-461	4.6	5
13	Maximum precision closed-form solution for localizing diffraction-limited spots in noisy images. <i>Optics Express</i> , 2012 , 20, 18478-93	3.3	5
12	Formation of droplet interface bilayers in a Teflon tube. <i>Scientific Reports</i> , 2016 , 6, 34355	4.9	5
11	Using Fluid Walls for Single-Cell Cloning Provides Assurance in Monoclonality. <i>SLAS Technology</i> , 2020 , 25, 267-275	3	4
10	Confocal Fluorescence Imaging of Photosensitized DNA Denaturation in Cell Nuclei. <i>Photochemistry and Photobiology</i> , 2007 , 81, 960-969	3.6	2
9	T7 RNA polymerase functions in vitro without clustering. <i>PLoS ONE</i> , 2012 , 7, e40207	3.7	2
8	Super-resolution measurement of distance between transcription sites using RNA FISH with intronic probes. <i>Methods</i> , 2016 , 98, 150-157	4.6	2
7	Creating wounds in cell monolayers using micro-jets. <i>Biomicrofluidics</i> , 2021 , 15, 014108	3.2	2
6	Transcriptional Initiation: Frequency, Bursting, and Transcription Factories 2011 , 235-254		1
5	How mobile are active RNA polymerases?. <i>Journal of Cell Science</i> , 1990 , 96 (Pt 2), 189-92	5.3	1

- 4 Complex small-world regulatory networks emerge from the 3D organisation of the human genome. *Nature Communications*, **2021**, 12, 5756 17.4 1
- 3 Predicting flows through microfluidic circuits with fluid walls. *Microsystems and Nanoengineering*, **2021**, 7, 93 7.7 0
- 2 Microfluidics on Standard Petri Dishes for Bioscientists.. *Small Methods*, **2021**, 5, e2100724 12.8
- 1 Dynamic Chromatin Loops and the Regulation of Gene Expression **2007**, 177-195