

Gary Felsenfeld

List of Publications by Year in descending order

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92
papers

20,061
citations

20817

60
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45317

90
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93
all docs

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docs citations

93
times ranked

12904
citing authors

#	ARTICLE	IF	CITATIONS
1	Methylation of a CTCF-dependent boundary controls imprinted expression of the Igf2 gene. <i>Nature</i> , 2000, 405, 482-485.	27.8	1,575
2	The Protein CTCF Is Required for the Enhancer Blocking Activity of Vertebrate Insulators. <i>Cell</i> , 1999, 98, 387-396.	28.9	980
3	Controlling the double helix. <i>Nature</i> , 2003, 421, 448-453.	27.8	961
4	Chromatin as an essential part of the transcriptional mechanism. <i>Nature</i> , 1992, 355, 219-224.	27.8	938
5	A 5â€² element of the chicken β -globin domain serves as an insulator in human erythroid cells and protects against position effect in <i>Drosophila</i> . <i>Cell</i> , 1993, 74, 505-514.	28.9	856
6	H3.3/H2A.Z double variantâ€“containing nucleosomes mark 'nucleosome-free regions' of active promoters and other regulatory regions. <i>Nature Genetics</i> , 2009, 41, 941-945.	21.4	679
7	Chromatin. <i>Nature</i> , 1978, 271, 115-122.	27.8	650
8	The erythroid-specific transcription factor eryf1: A new finger protein. <i>Cell</i> , 1989, 58, 877-885.	28.9	626
9	Insulators: exploiting transcriptional and epigenetic mechanisms. <i>Nature Reviews Genetics</i> , 2006, 7, 703-713.	16.3	573
10	Correlation Between Histone Lysine Methylation and Developmental Changes at the Chicken β -Globin Locus. <i>Science</i> , 2001, 293, 2453-2455.	12.6	561
11	Insulators: many functions, many mechanisms. <i>Genes and Development</i> , 2002, 16, 271-288.	5.9	553
12	Nucleosome stability mediated by histone variants H3.3 and H2A.Z. <i>Genes and Development</i> , 2007, 21, 1519-1529.	5.9	468
13	CTCF Tethers an Insulator to Subnuclear Sites, Suggesting Shared Insulator Mechanisms across Species. <i>Molecular Cell</i> , 2004, 13, 291-298.	9.7	457
14	Studies on the formation of two- and three-stranded polyribonucleotides. <i>Biochimica Et Biophysica Acta</i> , 1957, 26, 457-468.	1.3	402
15	The organization of histones and DNA in chromatin: Evidence for an arginine-rich histone kernel. <i>Cell</i> , 1976, 8, 333-347.	28.9	401
16	We gather together: insulators and genome organization. <i>Current Opinion in Genetics and Development</i> , 2007, 17, 400-407.	3.3	367
17	A new procedure for purifying histone pairs H2A+H2B and H3+H4 from chromatin using hydroxylapatite. <i>Nucleic Acids Research</i> , 1979, 6, 689-696.	14.5	363
18	Insulators and Boundaries: Versatile Regulatory Elements in the Eukaryotic Genome. <i>Science</i> , 2001, 291, 447-450.	12.6	361

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19	Position-effect protection and enhancer blocking by the chicken $\hat{\alpha}$ -globin insulator are separable activities. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 6883-6888.	7.1	352
20	A study of polyadenylic acid at neutral pH. Journal of Molecular Biology, 1966, 15, 455-466.	4.2	305
21	Silencing of transgene transcription precedes methylation of promoter DNA and histone H3 lysine 9. EMBO Journal, 2004, 23, 138-149.	7.8	281
22	Interaction of specific nuclear factors with the nuclease-hypersensitive region of the chicken adult $\hat{\beta}$ -globin gene: Nature of the binding domain. Cell, 1985, 41, 21-30.	28.9	275
23	CTCF: making the right connections. Genes and Development, 2016, 30, 881-891.	5.9	258
24	The conversion of two-stranded poly (A + U) to, three-strand poly (A + 2U) and poly A by heat. Biopolymers, 1964, 2, 293-314.	2.4	255
25	Orientation of the nucleosome within the higher order structure of chromatin. Cell, 1980, 22, 87-96.	28.9	245
26	A histone octamer can step around a transcribing polymerase without leaving the template. Cell, 1994, 76, 371-382.	28.9	243
27	Higher order structure of chromatin: Orientation of nucleosomes within the 30 nm chromatin solenoid is independent of species and spacer length. Cell, 1983, 33, 831-841.	28.9	240
28	Recruitment of Histone Modifications by USF Proteins at a Vertebrate Barrier Element. Molecular Cell, 2004, 16, 453-463.	9.7	234
29	Mediation of CTCF transcriptional insulation by DEAD-box RNA-binding protein p68 and steroid receptor RNA activator SRA. Genes and Development, 2010, 24, 2543-2555.	5.9	231
30	Studies of the temperature-dependent conformation and phase separation of polyriboadenylic acid solutions at neutral pH. Journal of Molecular Biology, 1967, 30, 17-37.	4.2	217
31	Methylation and gene control. Nature, 1982, 296, 602-603.	27.8	211
32	Actinomycin binding to DNA: Mechanism and specificity. Journal of Molecular Biology, 1965, 11, 445-457.	4.2	206
33	Chromatin structure as probed by nucleases and proteases: Evidence for the central role of histones H3 and H4. Cell, 1976, 9, 179-193.	28.9	206
34	Stopped at the border: boundaries and insulators. Current Opinion in Genetics and Development, 1999, 9, 191-198.	3.3	205
35	The solution structure of a specific GAGA factorâ€™DNA complex reveals a modular binding mode. Nature Structural Biology, 1997, 4, 122-132.	9.7	198
36	Methylation of histone H4 by arginine methyltransferase PRMT1 is essential in vivo for many subsequent histone modifications. Genes and Development, 2005, 19, 1885-1893.	5.9	198

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37	Conformation of polyribouridylic acid in solution. <i>Journal of Molecular Biology</i> , 1970, 50, 373-389.	4.2	195
38	Mechanism of Transcription Through the Nucleosome by Eukaryotic RNA Polymerase. <i>Science</i> , 1997, 278, 1960-1963.	12.6	188
39	Specific Sites in the C Terminus of CTCF Interact with the SA2 Subunit of the Cohesin Complex and Are Required for Cohesin-Dependent Insulation Activity. <i>Molecular and Cellular Biology</i> , 2011, 31, 2174-2183.	2.3	172
40	The barrier function of an insulator couples high histone acetylation levels with specific protection of promoter DNA from methylation. <i>Genes and Development</i> , 2002, 16, 1540-1554.	5.9	169
41	A nucleosome core is transferred out of the path of a transcribing polymerase. <i>Cell</i> , 1992, 71, 11-22.	28.9	164
42	Structure and evolution of a human erythroid transcription factor. <i>Nature</i> , 1990, 343, 92-96.	27.8	163
43	Conserved CTCF Insulator Elements Flank the Mouse and Human $\hat{\imath}^2$ -Globin Loci. <i>Molecular and Cellular Biology</i> , 2002, 22, 3820-3831.	2.3	161
44	Overcoming a nucleosomal barrier to transcription. <i>Cell</i> , 1995, 83, 19-27.	28.9	159
45	Supercoiling energy and nucleosome formation: the role of the arginine-rich histone kernel. <i>Nucleic Acids Research</i> , 1977, 4, 1159-1182.	14.5	158
46	An insulator element and condensed chromatin region separate the chicken $\hat{\imath}^2$ -globin locus from an independently regulated erythroid-specific folate receptor gene. <i>EMBO Journal</i> , 1999, 18, 4035-4048.	7.8	149
47	Structural and functional conservation at the boundaries of the chicken $\hat{\imath}^2$ -globin domain. <i>EMBO Journal</i> , 2000, 19, 2315-2322.	7.8	141
48	Critical DNA Binding Interactions of the Insulator Protein CTCF. <i>Journal of Biological Chemistry</i> , 2007, 282, 33336-33345.	3.4	139
49	Chromatin domains, insulators, and the regulation of gene expression. <i>Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms</i> , 2012, 1819, 644-651.	1.9	115
50	Site-independent expression of the chicken $\hat{\imath}^2$ A-globin gene in transgenic mice. <i>Nature</i> , 1990, 348, 749-752.	27.8	108
51	Antagonism between DNA hypermethylation and enhancer-blocking activity at the H19 DMD is uncovered by CpG mutations. <i>Nature Genetics</i> , 2004, 36, 883-888.	21.4	107
52	Interaction of spermine and DNA. <i>Biopolymers</i> , 1967, 5, 227-233.	2.4	106
53	VEZF1 Elements Mediate Protection from DNA Methylation. <i>PLoS Genetics</i> , 2010, 6, e1000804.	3.5	91
54	Histone hyperacetylation has little effect on the higher order folding of chromatin. <i>Nucleic Acids Research</i> , 1983, 11, 4065-4075.	14.5	87

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55	Temperature-dependent conformational transitions in poly(dG-dC) and poly(dG-m5dC). <i>Biopolymers</i> , 1985, 24, 289-300.	2.4	78
56	The Nature of the Nucleosomal Barrier to Transcription. <i>Molecular Cell</i> , 1999, 4, 377-386.	9.7	78
57	Distribution of histone H3.3 in hematopoietic cell lineages. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 574-579.	7.1	75
58	The Human Insulin Gene Displays Transcriptionally Active Epigenetic Marks in Islet-Derived Mesenchymal Precursor Cells in the Absence of Insulin Expression. <i>Stem Cells</i> , 2007, 25, 3223-3233.	3.2	75
59	The number of charge-charge interactions stabilizing the ends of nucleosome DNA. <i>Nucleic Acids Research</i> , 1980, 8, 2751-2770.	14.5	74
60	Hydrodynamic Studies on Defined Heterochromatin Fragments Support a 30-nm Fiber Having Six Nucleosomes per Turn. <i>Journal of Molecular Biology</i> , 2008, 376, 1417-1425.	4.2	70
61	Perturbation of nucleosome structure by the erythroid transcription factor GATA-1. <i>Journal of Molecular Biology</i> , 1998, 279, 529-544.	4.2	61
62	Association of the Long Non-coding RNA Steroid Receptor RNA Activator (SRA) with TrxG and PRC2 Complexes. <i>PLoS Genetics</i> , 2015, 11, e1005615.	3.5	58
63	The conformation of polyriboadenylic acid at low temperature and neutral pH. A single-stranded rodlike structure. <i>Biopolymers</i> , 1975, 14, 299-307.	2.4	56
64	An octamer of histones H3 and H4 forms a compact complex with DNA of nucleosome size. <i>Nucleic Acids Research</i> , 1978, 5, 4805-4818.	14.5	56
65	Mapping of INS promoter interactions reveals its role in long-range regulation of SYT8 transcription. <i>Nature Structural and Molecular Biology</i> , 2011, 18, 372-378.	8.2	55
66	Maintenance of a constitutive heterochromatin domain in vertebrates by a Dicer-dependent mechanism. <i>Nature Cell Biology</i> , 2010, 12, 94-99.	10.3	51
67	The human insulin gene is part of a large open chromatin domain specific for human islets. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 17419-17424.	7.1	49
68	Comparison of the folding of β -globin and ovalbumin gene containing chromatin isolated from chicken oviduct and erythrocytes. <i>Biochemistry</i> , 1986, 25, 8010-8016.	2.5	40
69	DNA:RNA triple helix formation can function as a cis-acting regulatory mechanism at the human β -globin locus. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 6130-6139.	7.1	39
70	The Myc-associated zinc finger protein (MAZ) works together with CTCF to control cohesin positioning and genome organization. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	39
71	Physical Properties of a Genomic Condensed Chromatin Fragment. <i>Journal of Molecular Biology</i> , 2004, 336, 597-605.	4.2	38
72	Vezf1 regulates genomic DNA methylation through its effects on expression of DNA methyltransferase Dnmt3b. <i>Genes and Development</i> , 2008, 22, 2075-2084.	5.9	38

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73	Interactome mapping defines BRG1, a component of the SWI/SNF chromatin remodeling complex, as a new partner of the transcriptional regulator CTCF. <i>Journal of Biological Chemistry</i> , 2019, 294, 861-873.	3.4	38
74	Vezf1 protein binding sites genome-wide are associated with pausing of elongating RNA polymerase II. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 2370-2375.	7.1	35
75	Sodium valproate rescues expression of TRANK1 in iPSC-derived neural cells that carry a genetic variant associated with serious mental illness. <i>Molecular Psychiatry</i> , 2019, 24, 613-624.	7.9	34
76	Solubility and structure of domains of chicken erythrocyte chromatin containing transcriptionally competent and inactive genes. <i>Biochemistry</i> , 1985, 24, 1186-1193.	2.5	30
77	Mapping of long-range <i>INS</i> promoter interactions reveals a role for calcium-activated chloride channel ANO1 in insulin secretion. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 16760-16765.	7.1	26
78	In vitro incorporation of tritium into native DNA. <i>Biopolymers</i> , 1969, 8, 733-741.	2.4	25
79	CTCF Recruits Centromeric Protein CENP-E to the Pericentromeric/Centromeric Regions of Chromosomes through Unusual CTCF-Binding Sites. <i>Cell Reports</i> , 2015, 12, 1704-1714.	6.4	25
80	Developmental regulation of globin gene expression. <i>Journal of Cell Science</i> , 1992, 1992, 15-20.	2.0	21
81	Chromatin structure outside and inside the nucleus. <i>Biopolymers</i> , 2013, 99, 225-232.	2.4	20
82	Human Argonaute 2 Is Tethered to Ribosomal RNA through MicroRNA Interactions. <i>Journal of Biological Chemistry</i> , 2016, 291, 17919-17928.	3.4	20
83	<i>INS</i> promoter in human pancreatic β cells contacts diabetes susceptibility loci and regulates genes affecting insulin metabolism. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E4633-E4641.	7.1	19
84	The RNA helicases DDX5 and DDX17 facilitate neural differentiation of human pluripotent stem cells NTERA2. <i>Life Sciences</i> , 2022, 291, 120298.	4.3	9
85	Quantitative approaches to problems of eukaryotic gene expression. <i>Biophysical Chemistry</i> , 2002, 100, 607-613.	2.8	7
86	Physical chemistry of nucleic acids and their complexes. <i>Biopolymers</i> , 2013, 99, 910-915.	2.4	5
87	Large parental differences in chromatin organization in pancreatic beta cell line explaining diabetes susceptibility effects. <i>Nature Communications</i> , 2021, 12, 4338.	12.8	5
88	Induced pluripotency enables differentiation of human nullipotent embryonal carcinoma cells N2102Ep. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2014, 1843, 2611-2619.	4.1	4
89	Order from Chaos in the Nucleus. <i>Molecular Cell</i> , 2012, 48, 327-328.	9.7	3
90	USF1 Recruits hSET1 Complex and Is Important for Maintaining Active Chromatin Domains in the β -Globin Locus. <i>Blood</i> , 2007, 110, 274-274.	1.4	1

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91	Regulation of Chromatin Looping and Transcription by PRMT1 Mediated H4R3 Methylation.. Blood, 2008, 112, 1864-1864.	1.4	0
92	CTCF protein recruits centromeric protein CENPα to the centromeric regions through unusual CTCF binding sites. FASEB Journal, 2015, 29, 709.6.	0.5	0