

# Eric Le Cam

## List of Publications by Year in descending order

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82  
papers

4,445  
citations

117625

34  
h-index

110387

64  
g-index

85  
all docs

85  
docs citations

85  
times ranked

5693  
citing authors

#	ARTICLE	IF	CITATIONS
1	The Srs2 helicase prevents recombination by disrupting Rad51 nucleoprotein filaments. <i>Nature</i> , 2003, 423, 309-312.	27.8	562
2	Hypoxic tumor-derived microvesicles negatively regulate NK cell function by a mechanism involving TGF- $\beta$ 2 and miR23a transfer. <i>Oncotmunology</i> , 2016, 5, e1062968.	4.6	247
3	UvrD helicase, unlike Rep helicase, dismantles RecA nucleoprotein filaments in <i>Escherichia coli</i> . <i>EMBO Journal</i> , 2005, 24, 180-189.	7.8	243
4	A Key Presynaptic Role in Transformation for a Widespread Bacterial Protein: DprA Conveys Incoming ssDNA to RecA. <i>Cell</i> , 2007, 130, 824-836.	28.9	237
5	Adsorption of DNA to Mica Mediated by Divalent Counterions: A Theoretical and Experimental Study. <i>Biophysical Journal</i> , 2003, 85, 2507-2518.	0.5	209
6	A Type IV Pilus Mediates DNA Binding during Natural Transformation in <i>Streptococcus pneumoniae</i> . <i>PLoS Pathogens</i> , 2013, 9, e1003473.	4.7	147
7	High-resolution AFM imaging of single-stranded DNA-binding (SSB) protein-DNA complexes. <i>Nucleic Acids Research</i> , 2007, 35, e58-e58.	14.5	130
8	Structural characterization of filaments formed by human Xrcc4/XLF complex involved in nonhomologous DNA end-joining. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 12663-12668.	7.1	126
9	Nucleosome Chiral Transition under Positive Torsional Stress in Single Chromatin Fibers. <i>Molecular Cell</i> , 2007, 27, 135-147.	9.7	122
10	The Srs2 Helicase Activity Is Stimulated by Rad51 Filaments on dsDNA: Implications for Crossover Incidence during Mitotic Recombination. <i>Molecular Cell</i> , 2008, 29, 243-254.	9.7	111
11	Conformational Analysis of a 139 Base-pair DNA Fragment Containing a Single-stranded Break and Its Interaction with Human Poly(ADP-ribose) Polymerase. <i>Journal of Molecular Biology</i> , 1994, 235, 1062-1071.	4.2	106
12	Contribution of DNA Conformation and Topology in Right-handed DNA Wrapping by the <i>Bacillus subtilis</i> LrpC Protein. <i>Journal of Biological Chemistry</i> , 2003, 278, 5333-5342.	3.4	87
13	Targeting the Deregulated Spliceosome Core Machinery in Cancer Cells Triggers mTOR Blockade and Autophagy. <i>Cancer Research</i> , 2013, 73, 2247-2258.	0.9	86
14	Multiple binding of repressed mRNAs by the P-body protein Rck/p54. <i>Rna</i> , 2012, 18, 1702-1715.	3.5	79
15	XLF and APLF bind Ku80 at two remote sites to ensure DNA repair by non-homologous end joining. <i>Nature Structural and Molecular Biology</i> , 2018, 25, 971-980.	8.2	78
16	Anionic Polyelectrolyte Adsorption on Mica Mediated by Multivalent Cations: A Solution to DNA Imaging by Atomic Force Microscopy under High Ionic Strengths. <i>Langmuir</i> , 2006, 22, 6651-6660.	3.5	77
17	Extracellular membrane vesicles harbouring viral genomes. <i>Environmental Microbiology</i> , 2014, 16, 1167-1175.	3.8	70
18	Efficient DNA Transfection Mediated by the C-Terminal Domain of Human Immunodeficiency Virus Type 1 Viral Protein R. <i>Journal of Virology</i> , 2000, 74, 5424-5431.	3.4	65

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19	An archaeal orthologue of the universal protein Kae1 is an iron metalloprotein which exhibits atypical DNA-binding properties and apurinic-endonuclease activity in vitro. <i>Nucleic Acids Research</i> , 2007, 35, 6042-6051.	14.5	65
20	Influence of the Internalization Pathway on the Efficacy of siRNA Delivery by Cationic Fluorescent Nanodiamonds in the Ewing Sarcoma Cell Model. <i>PLoS ONE</i> , 2012, 7, e52207.	2.5	57
21	Reversible Binding of DNA on NiCl <sub>2</sub> -Treated Mica by Varying the Ionic Strength. <i>Langmuir</i> , 2003, 19, 2536-2539.	3.5	56
22	G-quartets direct assembly of HIV-1 nucleocapsid protein along single-stranded DNA. <i>Nucleic Acids Research</i> , 2003, 31, 5754-5763.	14.5	55
23	The Cationic Amphipathic $\alpha$ -Helix of HIV-1 Viral Protein R (Vpr) Binds to Nucleic Acids, Permeabilizes Membranes, and Efficiently Transfects Cells. <i>Journal of Biological Chemistry</i> , 2003, 278, 18110-18116.	3.4	53
24	Rouse model with transient intramolecular contacts on a timescale of seconds recapitulates folding and fluctuation of yeast chromosomes. <i>Nucleic Acids Research</i> , 2019, 47, 6195-6207.	14.5	53
25	Plasma hydrogenated cationic detonation nanodiamonds efficiently deliver to human cells in culture functional siRNA targeting the Ewing sarcoma junction oncogene. <i>Biomaterials</i> , 2015, 45, 93-98.	11.4	49
26	Transmission Electron Microscopy Reveals an Optimal HIV-1 Nucleocapsid Aggregation with Single-stranded Nucleic Acids and the Mature HIV-1 Nucleocapsid Protein. <i>Journal of Molecular Biology</i> , 2006, 364, 496-511.	4.2	45
27	In vitro role of Rad54 in Rad51-ssDNA filament-dependent homology search and synaptic complexes formation. <i>Nature Communications</i> , 2019, 10, 4058.	12.8	45
28	The EcoRI-DNA Complex as a Model for Investigating Protein-DNA Interactions by Atomic Force Microscopy. <i>Biochemistry</i> , 2006, 45, 14675-14682.	2.5	42
29	The universal Kae1 protein and the associated Bud32 kinase (PRPK), a mysterious protein couple probably essential for genome maintenance in Archaea and Eukarya. <i>Biochemical Society Transactions</i> , 2009, 37, 29-35.	3.4	42
30	HIV-1 Protease and Reverse Transcriptase Control the Architecture of Their Nucleocapsid Partner. <i>PLoS ONE</i> , 2007, 2, e669.	2.5	42
31	G-quartets assembly within a G-rich DNA flap. A possible event at the center of the HIV-1 genome. <i>Nucleic Acids Research</i> , 2002, 30, 5276-5283.	14.5	41
32	The rolling-circle plasmid pTN1 from the hyperthermophilic archaeon <i>Thermococcus nautilus</i> . <i>Molecular Microbiology</i> , 2007, 66, 357-370.	2.5	39
33	Study of the DNA/ethidium bromide interactions on mica surface by atomic force microscope: Influence of the surface friction. <i>Biopolymers</i> , 2005, 77, 53-62.	2.4	37
34	C-terminal region of bacterial Ku controls DNA bridging, DNA threading and recruitment of DNA ligase D for double strand breaks repair. <i>Nucleic Acids Research</i> , 2016, 44, 4785-4806.	14.5	37
35	Srs2 removes deadly recombination intermediates independently of its interaction with SUMO-modified PCNA. <i>Nucleic Acids Research</i> , 2008, 36, 4964-4974.	14.5	36
36	DNA Bending Induced by the Archaeobacterial Histone-like Protein MC1. <i>Journal of Molecular Biology</i> , 1999, 285, 1011-1021.	4.2	35

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37	Cellular uptake pathways of sepiolite nanofibers and DNA transfection improvement. <i>Scientific Reports</i> , 2017, 7, 5586.	3.3	35
38	Comparative observations of biological specimens, especially DNA and filamentous actin molecules in atomic force, tunnelling and electron microscopes. <i>Microscopy Microanalysis Microstructures</i> , 1992, 3, 457-470.	0.4	35
39	Specific DNA-Protein Interactions on Mica Investigated by Atomic Force Microscopy. <i>Langmuir</i> , 2010, 26, 2618-2623.	3.5	34
40	Synthesis of a multibranched porphyrin-oligonucleotide scaffold for the construction of DNA-based nano-architectures. <i>Organic and Biomolecular Chemistry</i> , 2014, 12, 2778-2783.	2.8	34
41	Static Curvature and Flexibility Measurements of DNA with Microscopy. A Simple Renormalization Method, its Assessment by Experiment and Simulation. <i>Journal of Molecular Biology</i> , 1999, 285, 997-1009.	4.2	33
42	Physical interactions between DNA and sepiolite nanofibers, and potential application for DNA transfer into mammalian cells. <i>Scientific Reports</i> , 2016, 6, 36341.	3.3	33
43	The role of the N-terminal domain of human apurinic/apyrimidinic endonuclease 1, APE1, in DNA glycosylase stimulation. <i>DNA Repair</i> , 2018, 64, 10-25.	2.8	30
44	Rad51 Polymerization Reveals a New Chromatin Remodeling Mechanism. <i>PLoS ONE</i> , 2008, 3, e3643.	2.5	29
45	Stimulation of the Human RAD51 Nucleofilament Restricts HIV-1 Integration <i>In Vitro</i> and in Infected Cells. <i>Journal of Virology</i> , 2012, 86, 513-526.	3.4	29
46	Simultaneous cathodoluminescence and electron microscopy cytometry of cellular vesicles labeled with fluorescent nanodiamonds. <i>Nanoscale</i> , 2016, 8, 11588-11594.	5.6	29
47	Human Immunodeficiency Virus Type 1 Central DNA Flap: Dynamic Terminal Product of Plus-Strand Displacement DNA Synthesis Catalyzed by Reverse Transcriptase Assisted by Nucleocapsid Protein. <i>Journal of Virology</i> , 2001, 75, 3301-3313.	3.4	28
48	Constitutive autophagy contributes to resistance to TP53-mediated apoptosis in Epstein-Barr virus-positive latency III B-cell lymphoproliferations. <i>Autophagy</i> , 2015, 11, 2275-2287.	9.1	28
49	Investigation of Radiation Damage in DNA by Using Atomic Force Microscopy. <i>Radiation Protection Dosimetry</i> , 2002, 99, 143-146.	0.8	27
50	A new approach to DNA bending by polyamines and its implication in DNA condensation. <i>European Biophysics Journal</i> , 2006, 35, 214-223.	2.2	25
51	A protein ballet around the viral genome orchestrated by HIV-1 reverse transcriptase leads to an architectural switch: From nucleocapsid-condensed RNA to Vpr-bridged DNA. <i>Virus Research</i> , 2013, 171, 287-303.	2.2	25
52	Mechanism of stimulation of DNA binding of the transcription factors by human apurinic/apyrimidinic endonuclease 1, APE1. <i>DNA Repair</i> , 2019, 82, 102698.	2.8	24
53	Auto-assembly of <i>E. coli</i> DsrA small noncoding RNA: Molecular characteristics and functional consequences. <i>RNA Biology</i> , 2009, 6, 434-445.	3.1	22
54	Linker Histones Incorporation Maintains Chromatin Fiber Plasticity. <i>Biophysical Journal</i> , 2011, 100, 2726-2735.	0.5	22

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55	Conformational Changes of DNA Minicircles upon the Binding of the Archaeobacterial Histone-like Protein MC1. <i>Journal of Biological Chemistry</i> , 1995, 270, 6286-6291.	3.4	21
56	Rad52 Sumoylation Prevents the Toxicity of Unproductive Rad51 Filaments Independently of the Anti-Recombinase Srs2. <i>PLoS Genetics</i> , 2013, 9, e1003833.	3.5	20
57	Rad52-Rad51 association is essential to protect Rad51 filaments against Srs2, but facultative for filament formation. <i>ELife</i> , 2018, 7, .	6.0	19
58	Uncoupling of the Hippo and Rho pathways allows megakaryocytes to escape the tetraploid checkpoint. <i>Haematologica</i> , 2016, 101, 1469-1478.	3.5	18
59	Study of the DnaB:DciA interplay reveals insights into the primary mode of loading of the bacterial replicative helicase. <i>Nucleic Acids Research</i> , 2021, 49, 6569-6586.	14.5	18
60	Atomic Force Microscopy Imaging of DNA under Macromolecular Crowding Conditions. <i>Biomacromolecules</i> , 2007, 8, 3712-3717.	5.4	17
61	Quantitative electron microscopic analysis of DNA-protein interactions. <i>Journal of Electron Microscopy</i> , 1991, 18, 375-386.	1.1	16
62	Studying the effect of a charged surface on the interaction of bleomycin with DNA using an atomic force microscope. <i>European Biophysics Journal</i> , 2005, 34, 200-207.	2.2	16
63	Unique genome replication mechanism of the archaeal virus <sc>AFV</sc>1. <i>Molecular Microbiology</i> , 2014, 92, 1313-1325.	2.5	16
64	Sepiolite as a New Nanocarrier for DNA Transfer into Mammalian Cells: Proof of Concept, Issues and Perspectives. <i>Chemical Record</i> , 2018, 18, 849-857.	5.8	16
65	Preactivated Oxazaphosphorines Designed for Isophosphoramidate Mustard Delivery as Bulk Form or Nanoassemblies: Synthesis and Proof of Concept. <i>Journal of Medicinal Chemistry</i> , 2015, 58, 705-717.	6.4	14
66	Biotechnological applications of the sepiolite interactions with bacteria: Bacterial transformation and DNA extraction. <i>Applied Clay Science</i> , 2020, 191, 105613.	5.2	14
67	Auto-assembly as a new regulatory mechanism of noncoding RNA. <i>Cell Cycle</i> , 2009, 8, 952-954.	2.6	13
68	Nucleosome remodeling machines and other molecular motors observed at the single molecule level. <i>FEBS Journal</i> , 2011, 278, 3596-3607.	4.7	12
69	In vivo and in vitro characterization of DdrC, a DNA damage response protein in <i>Deinococcus radiodurans</i> bacterium. <i>PLoS ONE</i> , 2017, 12, e0177751.	2.5	11
70	Effect of Rap1 binding on DNA distortion and potassium permanganate hypersensitivity. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2013, 69, 409-419.	2.5	8
71	ATP-Independent Cooperative Binding of Yeast Isw1a to Bare and Nucleosomal DNA. <i>PLoS ONE</i> , 2012, 7, e31845.	2.5	8
72	Multiple topological labeling for imaging single plasmids. <i>Analytical Biochemistry</i> , 2007, 362, 55-62.	2.4	7

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73	Recombinases and Related Proteins in the Context of Homologous Recombination Analyzed by Molecular Microscopy. <i>Methods in Molecular Biology</i> , 2018, 1805, 251-270.	0.9	7
74	Verotoxin-1-Induced ER Stress Triggers Apoptotic or Survival Pathways in Burkitt Lymphoma Cells. <i>Toxins</i> , 2020, 12, 316.	3.4	7
75	Modular Imaging Scaffold for Single-Particle Electron Microscopy. <i>ACS Nano</i> , 2021, 15, 4186-4196.	14.6	7
76	Smart DNA Vectors Based on Cyclodextrin Polymers: Compaction and Endosomal Release. <i>Pharmaceutical Research</i> , 2012, 29, 384-396.	3.5	6
77	Are electron and near-field microscopies complementary?. <i>Microscopy Microanalysis Microstructures</i> , 1994, 5, 329-340.	0.4	6
78	Method combining BAC film and positive staining for the characterization of DNA intermediates by dark-field electron microscopy. <i>Biology Methods and Protocols</i> , 2020, 5, bpaa012.	2.2	5
79	A New Supramolecular Structure Made of Two Different Plasmids Linked by a Circular Oligonucleotide. <i>ChemBioChem</i> , 2006, 7, 912-915.	2.6	3
80	Poly-isoprenylated ifosfamide analogs: Preactivated antitumor agents as free formulation or nanoassemblies. <i>International Journal of Pharmaceutics</i> , 2017, 532, 748-756.	5.2	1
81	Microscopies moléculaires des complexes nucléoprotéiques. , 2011, , 12-17.	0.1	1
82	Dark Field Transmission Electron Microscopy Imaging for Biological and Soft Matter Systems. <i>Macromolecular Symposia</i> , 2016, 361, 73-81.	0.7	0