

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	Modular Imaging Scaffold for Single-Particle Electron Microscopy. ACS Nano, 2021, 15, 4186-4196.	14.6	7
2	Study of the DnaB:DciA interplay reveals insights into the primary mode of loading of the bacterial replicative helicase. Nucleic Acids Research, 2021, 49, 6569-6586.	14.5	18
3	Method combining BAC film and positive staining for the characterization of DNA intermediates by dark-field electron microscopy. Biology Methods and Protocols, 2020, 5, bpaa012.	2.2	5
4	Verotoxin-1-Induced ER Stress Triggers Apoptotic or Survival Pathways in Burkitt Lymphoma Cells. Toxins, 2020, 12, 316.	3.4	7
5	Biotechnological applications of the sepiolite interactions with bacteria: Bacterial transformation and DNA extraction. Applied Clay Science, 2020, 191, 105613.	5.2	14
6	In vitro role of Rad54 in Rad51-ssDNA filament-dependent homology search and synaptic complexes formation. Nature Communications, 2019, 10, 4058.	12.8	45
7	Mechanism of stimulation of DNA binding of the transcription factors by human apurinic/apyrimidinic endonuclease 1, APE1. DNA Repair, 2019, 82, 102698.	2.8	24
8	Rouse model with transient intramolecular contacts on a timescale of seconds recapitulates folding and fluctuation of yeast chromosomes. Nucleic Acids Research, 2019, 47, 6195-6207.	14.5	53
9	The role of the N-terminal domain of human apurinic/apyrimidinic endonuclease 1, APE1, in DNA glycosylase stimulation. DNA Repair, 2018, 64, 10-25.	2.8	30
10	Sepiolite as a New Nanocarrier for DNA Transfer into Mammalian Cells: Proof of Concept, Issues and Perspectives. Chemical Record, 2018, 18, 849-857.	5.8	16
11	XLF and APLF bind Ku80 at two remote sites to ensure DNA repair by non-homologous end joining. Nature Structural and Molecular Biology, 2018, 25, 971-980.	8.2	78
12	Recombinases and Related Proteins in the Context of Homologous Recombination Analyzed by Molecular Microscopy. Methods in Molecular Biology, 2018, 1805, 251-270.	0.9	7
13	Rad52-Rad51 association is essential to protect Rad51 filaments against Srs2, but facultative for filament formation. ELife, 2018, 7, .	6.0	19
14	Poly-isoprenylated ifosfamide analogs: Preactivated antitumor agents as free formulation or nanoassemblies. International Journal of Pharmaceutics, 2017, 532, 748-756.	5.2	1
15	Cellular uptake pathways of sepiolite nanofibers and DNA transfection improvement. Scientific Reports, 2017, 7, 5586.	3.3	35
16	In vivo and in vitro characterization of DdrC, a DNA damage response protein in Deinococcus radiodurans bacterium. PLoS ONE, 2017, 12, e0177751.	2.5	11
17	Dark Field Transmission Electron Microscopy Imaging for Biological and Soft Matter Systems. Macromolecular Symposia, 2016, 361, 73-81.	0.7	0
18	Uncoupling of the Hippo and Rho pathways allows megakaryocytes to escape the tetraploid checkpoint. Haematologica, 2016, 101, 1469-1478.	3.5	18

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19	Simultaneous cathodoluminescence and electron microscopy cytometry of cellular vesicles labeled with fluorescent nanodiamonds. <i>Nanoscale</i> , 2016, 8, 11588-11594.	5.6	29
20	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
21	Hypoxic tumor-derived microvesicles negatively regulate NK cell function by a mechanism involving TGF- β 2 and miR23a transfer. <i>OncoImmunology</i> , 2016, 5, e1062968.	4.6	247
22	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
23	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
24	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
25	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
26	Extracellular membrane vesicles harbouring viral genomes. <i>Environmental Microbiology</i> , 2014, 16, 1167-1175.	3.8	70
27	Unique genome replication mechanism of the archaeal virus ϕ AFV1. <i>Molecular Microbiology</i> , 2014, 92, 1313-1325.	2.5	16
28	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
29	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
30	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
31	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
32	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
33	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
34	Multiple binding of repressed mRNAs by the P-body protein Rck/p54. <i>Rna</i> , 2012, 18, 1702-1715.	3.5	79
35	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
36	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

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37	Smart DNA Vectors Based on Cyclodextrin Polymers: Compaction and Endosomal Release. <i>Pharmaceutical Research</i> , 2012, 29, 384-396.	3.5	6
38	ATP-Independent Cooperative Binding of Yeast Isw1a to Bare and Nucleosomal DNA. <i>PLoS ONE</i> , 2012, 7, e31845.	2.5	8
39	Linker Histones Incorporation Maintains Chromatin Fiber Plasticity. <i>Biophysical Journal</i> , 2011, 100, 2726-2735.	0.5	22
40	Nucleosome Remodelling machines and other molecular motors observed at the single molecule level. <i>FEBS Journal</i> , 2011, 278, 3596-3607.	4.7	12
41	Structural characterization of filaments formed by human Xrcc4/Cernunnos/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
42	Microscopies moléculaires des complexes nucléoprotéiques. , 2011, , 12-17.	0.1	1
43	Specific DNA-Protein Interactions on Mica Investigated by Atomic Force Microscopy. <i>Langmuir</i> , 2010, 26, 2618-2623.	3.5	34
44	Auto-assembly as a new regulatory mechanism of noncoding RNA. <i>Cell Cycle</i> , 2009, 8, 952-954.	2.6	13
45	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
46	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
47	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
48	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
49	Rad51 Polymerization Reveals a New Chromatin Remodeling Mechanism. <i>PLoS ONE</i> , 2008, 3, e3643.	2.5	29
50	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
51	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
52	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
53	Nucleosome Chiral Transition under Positive Torsional Stress in Single Chromatin Fibers. <i>Molecular Cell</i> , 2007, 27, 135-147.	9.7	122
54	Atomic Force Microscopy Imaging of DNA under Macromolecular Crowding Conditions. <i>Biomacromolecules</i> , 2007, 8, 3712-3717.	5.4	17

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55	Multiple topological labeling for imaging single plasmids. <i>Analytical Biochemistry</i> , 2007, 362, 55-62.	2.4	7
56	The rolling circle plasmid pTN1 from the hyperthermophilic archaeon <i>Thermococcus nautilus</i> . <i>Molecular Microbiology</i> , 2007, 66, 357-370.	2.5	39
57	HIV-1 Protease and Reverse Transcriptase Control the Architecture of Their Nucleocapsid Partner. <i>PLoS ONE</i> , 2007, 2, e669.	2.5	42
58	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
59	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
60	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
61	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
62	A New Supramolecular Structure Made of Two Different Plasmids Linked by a Circular Oligonucleotide. <i>ChemBioChem</i> , 2006, 7, 912-915.	2.6	3
63	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
64	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
65	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
66	The Srs2 helicase prevents recombination by disrupting Rad51 nucleoprotein filaments. <i>Nature</i> , 2003, 423, 309-312.	27.8	562
67	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
68	Reversible Binding of DNA on NiCl ₂ -Treated Mica by Varying the Ionic Strength. <i>Langmuir</i> , 2003, 19, 2536-2539.	3.5	56
69	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
70	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
71	The Cationic Amphipathic α -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
72	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

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73	Investigation of Radiation Damage in DNA by Using Atomic Force Microscopy. Radiation Protection Dosimetry, 2002, 99, 143-146.	0.8	27
74	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. Journal of Virology, 2001, 75, 3301-3313.	3.4	28
75	Efficient DNA Transfection Mediated by the C-Terminal Domain of Human Immunodeficiency Virus Type 1 Viral Protein R. Journal of Virology, 2000, 74, 5424-5431.	3.4	65
76	DNA Bending Induced by the Archaeobacterial Histone-like Protein MC1. Journal of Molecular Biology, 1999, 285, 1011-1021.	4.2	35
77	Static Curvature and Flexibility Measurements of DNA with Microscopy. A Simple Renormalization Method, its Assessment by Experiment and Simulation. Journal of Molecular Biology, 1999, 285, 997-1009.	4.2	33
78	Conformational Changes of DNA Minicircles upon the Binding of the Archaeobacterial Histone-like Protein MC1. Journal of Biological Chemistry, 1995, 270, 6286-6291.	3.4	21
79	Conformational Analysis of a 139 Base-pair DNA Fragment Containing a Single-stranded Break and Its Interaction with Human Poly(ADP-ribose) Polymerase. Journal of Molecular Biology, 1994, 235, 1062-1071.	4.2	106
80	Are electron and near-field microscopies complementary?. Microscopy Microanalysis Microstructures, 1994, 5, 329-340.	0.4	6
81	Comparative observations of biological specimens, especially DNA and filamentous actin molecules in atomic force, tunnelling and electron microscopes. Microscopy Microanalysis Microstructures, 1992, 3, 457-470.	0.4	35
82	Quantitative electron microscopic analysis of DNA-protein interactions. Journal of Electron Microscopy Technique, 1991, 18, 375-386.	1.1	16