

# Sanford H Leuba

## List of Publications by Year in descending order

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51  
papers

2,466  
citations

218677

26  
h-index

233421

45  
g-index

52  
all docs

52  
docs citations

52  
times ranked

2430  
citing authors

#	ARTICLE	IF	CITATIONS
1	Single molecule force spectroscopy in biology using the atomic force microscope. <i>Progress in Biophysics and Molecular Biology</i> , 2000, 74, 37-61.	2.9	348
2	Unfolding individual nucleosomes by stretching single chromatin fibers with optical tweezers. <i>Nature Structural Biology</i> , 2001, 8, 606-610.	9.7	265
3	Three-dimensional structure of extended chromatin fibers as revealed by tapping-mode scanning force microscopy.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1994, 91, 11621-11625.	7.1	226
4	Fast, long-range, reversible conformational fluctuations in nucleosomes revealed by single-pair fluorescence resonance energy transfer. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 3278-3283.	7.1	130
5	Chromatin Fiber Structure: Morphology, Molecular Determinants, Structural Transitions. <i>Biophysical Journal</i> , 1998, 74, 2554-2566.	0.5	104
6	Selective Requirements for Histone H3 and H4 N Termini in p300-Dependent Transcriptional Activation from Chromatin. <i>Molecular Cell</i> , 2002, 9, 811-821.	9.7	98
7	Assembly of single chromatin fibers depends on the tension in the DNA molecule: Magnetic tweezers study. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 495-500.	7.1	81
8	Linker Histone Tails and N-Tails of Histone H3 Are Redundant: Scanning Force Microscopy Studies of Reconstituted Fibers. <i>Biophysical Journal</i> , 1998, 74, 2830-2839.	0.5	78
9	Linker DNA accessibility in chromatin fibers of different conformations: a reevaluation.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1994, 91, 5277-5280.	7.1	76
10	Chromatin Fibers, One-at-a-time. <i>Journal of Molecular Biology</i> , 2003, 331, 1-19.	4.2	70
11	DNA methylation-dependent chromatin fiber compaction in vivo and in vitro: requirement for linker histone. <i>FASEB Journal</i> , 2001, 15, 2631-2641.	0.5	67
12	Contributions of Linker Histones and Histone H3 to Chromatin Structure: Scanning Force Microscopy Studies on Trypsinized Fibers. <i>Biophysical Journal</i> , 1998, 74, 2823-2829.	0.5	65
13	Steric exclusion and wrapping of the excluded DNA strand occurs along discrete external binding paths during MCM helicase unwinding. <i>Nucleic Acids Research</i> , 2011, 39, 6585-6595.	14.5	65
14	Magnetic tweezers: a sensitive tool to study DNA and chromatin at the single-molecule level. <i>Biochemistry and Cell Biology</i> , 2003, 81, 151-159.	2.0	58
15	The Archaeal Histone-Fold Protein HMf Organizes DNA into Bona Fide Chromatin Fibers. <i>Structure</i> , 2001, 9, 1201-1211.	3.3	54
16	Monoubiquitinated Histone H2A Destabilizes Photolesion-containing Nucleosomes with Concomitant Release of UV-damaged DNA-binding Protein E3 Ligase. <i>Journal of Biological Chemistry</i> , 2012, 287, 12036-12049.	3.4	49
17	Chromatin Structure Revisited. <i>Critical Reviews in Eukaryotic Gene Expression</i> , 1999, 9, 245-255.	0.9	49
18	Role of linker histones in extended chromatin fibre structure. <i>Nature Structural Biology</i> , 1994, 1, 761-763.	9.7	46

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19	Visualization and Analysis of Chromatin by Scanning Force Microscopy. <i>Methods</i> , 1997, 12, 73-83.	3.8	46
20	Paracrine and Epigenetic Control of Trophectoderm Differentiation from Human Embryonic Stem Cells: The Role of Bone Morphogenic Protein 4 and Histone Deacetylases. <i>Stem Cells and Development</i> , 2011, 20, 1601-1614.	2.1	44
21	Mechanism of allosteric inhibition of HIV-1 reverse transcriptase revealed by single-molecule and ensemble fluorescence. <i>Nucleic Acids Research</i> , 2014, 42, 11687-11696.	14.5	43
22	Robust methods for purification of histones from cultured mammalian cells with the preservation of their native modifications. <i>Nucleic Acids Research</i> , 2009, 37, e81-e81.	14.5	39
23	On the Location of Histones H1 and H5 in the Chromatin Fiber. <i>Journal of Molecular Biology</i> , 1993, 229, 917-929.	4.2	34
24	One-step fractionation method for isolating H1 histones from chromatin under nondenaturing conditions. <i>Protein Expression and Purification</i> , 1990, 1, 40-44.	1.3	33
25	Stretching and imaging single DNA molecules and chromatin. <i>Journal of Muscle Research and Cell Motility</i> , 2002, 23, 377-395.	2.0	33
26	DNA Helicase Activity of PcrA Is Not Required for the Displacement of RecA Protein from DNA or Inhibition of RecA-Mediated Strand Exchange. <i>Journal of Bacteriology</i> , 2007, 189, 4502-4509.	2.2	31
27	A Tightly Regulated Molecular Motor Based upon T7 RNA Polymerase. <i>Nano Letters</i> , 2005, 5, 1698-1703.	9.1	24
28	On the Location of Linker DNA in the Chromatin Fiber. <i>Journal of Molecular Biology</i> , 1994, 235, 871-880.	4.2	22
29	PcrA-mediated disruption of RecA nucleoprotein filamentsâ€™ essential role of the ATPase activity of RecA. <i>Nucleic Acids Research</i> , 2012, 40, 8416-8424.	14.5	22
30	Force and twist dependence of RepC nicking activity on torsionally-constrained DNA molecules. <i>Nucleic Acids Research</i> , 2016, 44, 8885-8896.	14.5	20
31	Single-Molecule Analysis of Chromatin. <i>Methods in Enzymology</i> , 2003, 376, 73-105.	1.0	19
32	Structure and dynamics of single DNA molecules manipulated by magnetic tweezers and or flow. <i>Methods</i> , 2009, 47, 214-222.	3.8	16
33	Analysis of Chromatin by Scanning Force Microscopy. , 1999, 119, 143-160.		15
34	Bacterial DnaB helicase interacts with the excluded strand to regulate unwinding. <i>Journal of Biological Chemistry</i> , 2017, 292, 19001-19012.	3.4	15
35	Single-Molecule Approaches Reveal the Idiosyncrasies of RNA Polymerases. <i>Structure</i> , 2006, 14, 953-966.	3.3	13
36	The site of binding of linker histone to the nucleosome does not depend upon the amino termini of core histones. <i>Biochimie</i> , 1999, 81, 727-732.	2.6	9

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37	Homebuilt single-molecule scanning confocal fluorescence microscope studies of single DNA/protein interactions. <i>Methods</i> , 2007, 41, 342-352.	3.8	8
38	Expedient placement of two fluorescent dyes for investigating dynamic DNA protein interactions in real time. <i>Chromosome Research</i> , 2008, 16, 451-467.	2.2	8
39	Single-Molecule Studies of Chromatin Fibers: A Personal Report.. <i>Archives of Histology and Cytology</i> , 2002, 65, 391-403.	0.2	7
40	cAMP signaling induces rapid loss of histone H3 phosphorylation in mammary adenocarcinoma-derived cell lines. <i>Experimental Cell Research</i> , 2008, 314, 1-10.	2.6	7
41	Dynamics of individual polymers using microfluidic based microcurvilinear flow. <i>Lab on A Chip</i> , 2009, 9, 2339.	6.0	6
42	Optimal Practices for Surface-Tethered Single Molecule Total Internal Reflection Fluorescence Resonance Energy Transfer Analysis. <i>Methods in Molecular Biology</i> , 2011, 749, 273-289.	0.9	6
43	Biophysical Insights into the Inhibitory Mechanism of Non-Nucleoside HIV-1 Reverse Transcriptase Inhibitors. <i>Biomolecules</i> , 2013, 3, 889-904.	4.0	5
44	Dynamics of DNA nicking and unwinding by the RepCâ€“PcrA complex. <i>Nucleic Acids Research</i> , 2020, 48, 2013-2025.	14.5	5
45	Chromatin structure and dynamics: lessons from single molecule approaches. <i>New Comprehensive Biochemistry</i> , 2004, 39, 369-396.	0.1	3
46	Salt-Urea, Sulfopropyl-Sepharose, and Covalent Chromatography Methods for Histone Isolation and Fractionation. <i>Methods in Molecular Biology</i> , 2014, 1094, 295-307.	0.9	3
47	Stretching and imaging single DNA molecules and chromatin. , 2003, , 377-395.		1
48	Single Molecule Studies of Chromatin Structure and Dynamics. , 2009, , 143-171.		0
49	Early integration of the individual student in academic activities: a novel classroom concept for graduate education in molecular biophysics and structural biology. <i>BMC Biophysics</i> , 2014, 7, 6.	4.4	0
50	JÃƒrg Langowski: his scientific legacy and the future it promises. <i>BMC Biophysics</i> , 2018, 11, 5.	4.4	0
51	How to Think Like a Single Molecule: Obtaining Quantitative Measurements on Single DNA Molecules and Chromatin Fibers. <i>Biological and Medical Physics Series</i> , 2010, , 307-323.	0.4	0