Bianca Sclavi

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/4255350/publications.pdf

Version: 2024-02-01

52	1,847	430754	276775
papers	citations	18 h-index	41 g-index

60	60	60	1947
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	RNA Folding at Millisecond Intervals by Synchrotron Hydroxyl Radical Footprinting. Science, 1998, 279, 1940-1943.	6.0	378
2	Time-resolved synchrotron X-ray â€œfootprintingâ€, a new approach to the study of nucleic acid structure and function: application to protein-DNA interactions and RNA folding 1 1 Edited by D. E. Draper. Journal of Molecular Biology, 1997, 266, 144-159.	2.0	174
3	Ribonucleotide reductase and the regulation of DNA replication: an old story and an ancient heritage. Molecular Microbiology, 2007, 63, 22-34.	1.2	134
4	Microfluidic chemostat for measuring single cell dynamics in bacteria. Lab on A Chip, 2013, 13, 947.	3.1	134
5	From The Cover: Real-time characterization of intermediates in the pathway to open complex formation by Escherichia coli RNA polymerase at the T7A1 promoter. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 4706-4711.	3.3	90
6	[19] Following the folding of RNA with time-resolved synchrotron X-ray footprinting. Methods in Enzymology, 1998, 295, 379-402.	0.4	74
7	[22] Time-resolved synchrotron X-ray footprinting and its application to RNA folding. Methods in Enzymology, 2000, 317, 353-368.	0.4	72
8	Examining the conformational dynamics of macromolecules with time-resolved synchrotron X-ray â€˜footprintingâ€™. Structure, 1997, 5, 865-869.	1.6	46
9	DnaA-ATP acts as a molecular switch to control levels of ribonucleotide reductase expression in Escherichia coli. Molecular Microbiology, 2010, 76, 1555-1571.	1.2	46
10	Rapid and accurate detection of Escherichia coli growth by fluorescent pH-sensitive organic nanoparticles for high-throughput screening applications. Biosensors and Bioelectronics, 2016, 75, 320-327.	5.3	44
11	Low frequency vibrations of amino acid homopolymers observed by synchrotron far-ir absorption spectroscopy: Excited state effects dominate the temperature dependence of the spectra. Biopolymers, 1999, 49, 591-603.	1.2	40
12	Gene Regulation by H-NS as a Function of Growth Conditions Depends on Chromosomal Position in Escherichia coli. G3: Genes, Genomes, Genetics, 2015, 5, 605-614.	0.8	39
13	DNA melting by RNA polymerase at the T7A1 promoter precedes the rate-limiting step at 37Â°C and results in the accumulation of an off-pathway intermediate. Nucleic Acids Research, 2009, 37, 5390-5404.	6.5	31
14	Threshold accumulation of a constitutive protein explains E. coli cell-division behavior in nutrient upshifts. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	31
15	Global Mapping of Structural Solutions Provided by the Extended X-ray Absorption Fine Structure ab Initio Code FEFF 6.01:â€‰ Structure of the Cryogenic Photoproduct of the Myoglobinâ€“Carbon Monoxide Complex. Biochemistry, 1996, 35, 9014-9023.	1.2	30
16	Topological characterization of the DnaAâ€“oriC complex using single-molecule nanomanipuation. Nucleic Acids Research, 2012, 40, 7375-7383.	6.5	27
17	Bacterial-Chromatin Structural Proteins Regulate the Bimodal Expression of the Locus of Enterocyte Effacement (LEE) Pathogenicity Island in Enteropathogenic Escherichia coli. MBio, 2017, 8, .	1.8	26
18	Gene clusters reflecting macrodomain structure respond to nucleoid perturbations. Molecular BioSystems, 2011, 7, 878-888.	2.9	24

#	Article	IF	Citations
19	Stochasticity of gene expression as a motor of epigenetics in bacteria: from individual to collective behaviors. Research in Microbiology, 2017, 168, 503-514.	1.0	24
20	Mycobacterium tuberculosis Rv1395 Is a Class III Transcriptional Regulator of the AraC Family Involved in Cytochrome P450 Regulation. Journal of Biological Chemistry, 2003, 278, 33763-33773.	1.6	23
21	DnaA and the timing of chromosome replication in Es-cherichia coli as a function of growth rate. BMC Systems Biology, 2011, 5, 201.	3.0	23
22	Measuring bacterial adaptation dynamics at the single-cell level using a microfluidic chemostat and time-lapse fluorescence microscopy. Analyst, The, 2014, 139, 5254-5262.	1.7	18
23	Gene silencing and large-scale domain structure of the E. coli genome. Molecular BioSystems, 2013, 9, 758.	2.9	17
24	DnaA and LexA Proteins Regulate Transcription of the uvrB Gene in Escherichia coli: The Role of DnaA in the Control of the SOS Regulon. Frontiers in Microbiology, 2018, 9, 1212.	1.5	17
25	Fractal-like patterns in DNA films, B form at 0% relative humidity, and antiheteronomous DNA: An ir study. Biopolymers, 1994, 34, 1105-1113.	1.2	16
26	Phage T4 early promoters are resistant to inhibition by the anti-sigma factor AsiA. Molecular Microbiology, 2004, 52, 1013-1028.	1.2	16
27	Role of growth rate on the orientational alignment of Escherichia coli in a slit. Royal Society Open Science, 2017, 4, 170463.	1.1	16
28	Subdiffusion of loci and cytoplasmic particles are different in compressed Escherichia coli cells. Communications Biology, 2018, 1, 176.	2.0	15
29	Comparative and phylogenetic analysis of a novel family of Enterobacteriaceae-associated genomic islands that share a conserved excision/integration module. Scientific Reports, 2018, 8, 10292.	1.6	15
30	Genome size variation and species diversity in salamanders. Journal of Evolutionary Biology, 2019, 32, 278-286.	0.8	14
31	Post-replicative pairing of sister ter regions in Escherichia coli involves multiple activities of MatP. Nature Communications, 2020, 11, 3796.	5.8	13
32	Cytosolic Crowding Drives the Dynamics of Both Genome and Cytosol in Escherichia coli Challenged with Sub-lethal Antibiotic Treatments. IScience, 2020, 23, 101560.	1.9	13
33	A new look at genome size, evolutionary duration and genetic variation in salamanders. Comptes Rendus - Palevol, 2014, 13, 611-621.	0.1	12
34	Understanding the fundamental mechanisms of biofilms development and dispersal: BIAM (Biofilm) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5 architecture and fluorescence intensity. Journal of Microbiological Methods, 2017, 140, 47-57.	0.7	12
35	Fluorescent Copolymers for Bacterial Bioimaging and Viability Detection. ACS Sensors, 2020, 5, 2843-2851.	4.0	12
36	The multiple roles of CRP at the complex acs promoter depend on activation region 2 and IHF. Molecular Microbiology, 2007, 65, 425-440.	1.2	10

#	Article	IF	Citations
37	Temperature-dependence of the DnaAâ€“DNA interaction and its effect on the autoregulation of dnaA expression. Biochemical Journal, 2013, 449, 333-341.	1.7	10
38	Early fate of exogenous promoters in E.Âcoli. Nucleic Acids Research, 2020, 48, 2348-2356.	6.5	10
39	Bacteriophage T4Dam DNA-(Adenine-N6)-methyltransferase. Journal of Biological Chemistry, 2004, 279, 50012-50018.	1.6	9
40	Bacterial nucleoid structure probed by active drag and resistive pulse sensing. Integrative Biology (United Kingdom), 2014, 6, 184-191.	0.6	9
41	Probing the solution structure of Factor H using hydroxyl radical protein footprinting and cross-linking. Biochemical Journal, 2016, 473, 1805-1819.	1.7	9
42	Effect of Rap1 binding on DNA distortion and potassium permanganate hypersensitivity. Acta Crystallographica Section D: Biological Crystallography, 2013, 69, 409-419.	2.5	8
43	The nucleoid as a smart polymer. Frontiers in Microbiology, 2015, 6, 424.	1.5	8
44	A Decrease in Transcription Capacity Limits Growth Rate upon Translation Inhibition. MSystems, 2020, 5, .	1.7	7
45	Vibrational dynamics of wet-spun films of the NaDNA-netropsin complex: A Raman and infrared study. Physical Review E, 1993, 48, 2240-2245.	0.8	6
46	A new method for examining the dynamics of macromolecules: Time-resolved synchrotron x-ray â€œfootprintingâ€• Synchrotron Radiation News, 1998, 11, 7-16.	0.2	6
47	Study of Bacteriophage T4-encoded Dam DNA (Adenine-N6)-methyltransferase Binding with Substrates by Rapid Laser UV Cross-linking. Journal of Biological Chemistry, 2007, 282, 26067-26076.	1.6	6
48	SOLEIL shining on the solution-state structure of biomacromolecules by synchrotron X-ray footprinting at the Metrology beamline. Journal of Synchrotron Radiation, 2017, 24, 576-585.	1.0	6
49	Differential methylation kinetics of individual target site strands by T4Dam DNA methyltransferase. Biological Chemistry, 2007, 388, 1199-1207.	1.2	5
50	The Early Folding Intermediates of theTetrahymenaRibozyme are Kinetically Trapped. Journal of Biomolecular Structure and Dynamics, 2000, 17, 195-200.	2.0	4
51	Time-resolved footprinting for the study of the structural dynamics of DNAâ€“protein interactions. Biochemical Society Transactions, 2008, 36, 745-748.	1.6	3
52	FRET-mediated quenching of BODIPY fluorescent nanoparticles by methylene blue and its application to bacterial imaging. Photochemical and Photobiological Sciences, 2022, , 1.	1.6	0