

Bianca Sclavi

List of Publications by Year in descending order

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Version: 2024-02-01

52
papers

1,847
citations

430754

18
h-index

276775

41
g-index

60
all docs

60
docs citations

60
times ranked

1947
citing authors

#	ARTICLE	IF	CITATIONS
1	FRET-mediated quenching of BODIPY fluorescent nanoparticles by methylene blue and its application to bacterial imaging. <i>Photochemical and Photobiological Sciences</i> , 2022, , 1.	1.6	0
2	Threshold accumulation of a constitutive protein explains <i>E. coli</i> cell-division behavior in nutrient upshifts. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	31
3	Fluorescent Copolymers for Bacterial Bioimaging and Viability Detection. <i>ACS Sensors</i> , 2020, 5, 2843-2851.	4.0	12
4	Post-replicative pairing of sister ter regions in <i>Escherichia coli</i> involves multiple activities of MatP. <i>Nature Communications</i> , 2020, 11, 3796.	5.8	13
5	A Decrease in Transcription Capacity Limits Growth Rate upon Translation Inhibition. <i>MSystems</i> , 2020, 5, .	1.7	7
6	Cytosolic Crowding Drives the Dynamics of Both Genome and Cytosol in <i>Escherichia coli</i> Challenged with Sub-lethal Antibiotic Treatments. <i>IScience</i> , 2020, 23, 101560.	1.9	13
7	Early fate of exogenous promoters in <i>E. coli</i> . <i>Nucleic Acids Research</i> , 2020, 48, 2348-2356.	6.5	10
8	Genome size variation and species diversity in salamanders. <i>Journal of Evolutionary Biology</i> , 2019, 32, 278-286.	0.8	14
9	Subdiffusion of loci and cytoplasmic particles are different in compressed <i>Escherichia coli</i> cells. <i>Communications Biology</i> , 2018, 1, 176.	2.0	15
10	DnaA and LexA Proteins Regulate Transcription of the <i>uvrB</i> Gene in <i>Escherichia coli</i> : The Role of DnaA in the Control of the SOS Regulon. <i>Frontiers in Microbiology</i> , 2018, 9, 1212.	1.5	17
11	Comparative and phylogenetic analysis of a novel family of Enterobacteriaceae-associated genomic islands that share a conserved excision/integration module. <i>Scientific Reports</i> , 2018, 8, 10292.	1.6	15
12	Stochasticity of gene expression as a motor of epigenetics in bacteria: from individual to collective behaviors. <i>Research in Microbiology</i> , 2017, 168, 503-514.	1.0	24
13	Bacterial-Chromatin Structural Proteins Regulate the Bimodal Expression of the Locus of Enterocyte Effacement (LEE) Pathogenicity Island in Enteropathogenic <i>Escherichia coli</i> . <i>MBio</i> , 2017, 8, .	1.8	26
14	Understanding the fundamental mechanisms of biofilms development and dispersal: BIAM (Biofilm) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5 architecture and fluorescence intensity. <i>Journal of Microbiological Methods</i> , 2017, 140, 47-57.	0.7	12
15	Role of growth rate on the orientational alignment of <i>Escherichia coli</i> in a slit. <i>Royal Society Open Science</i> , 2017, 4, 170463.	1.1	16
16	SOLEIL shining on the solution-state structure of biomacromolecules by synchrotron X-ray footprinting at the Metrology beamline. <i>Journal of Synchrotron Radiation</i> , 2017, 24, 576-585.	1.0	6
17	Probing the solution structure of Factor H using hydroxyl radical protein footprinting and cross-linking. <i>Biochemical Journal</i> , 2016, 473, 1805-1819.	1.7	9
18	Rapid and accurate detection of <i>Escherichia coli</i> growth by fluorescent pH-sensitive organic nanoparticles for high-throughput screening applications. <i>Biosensors and Bioelectronics</i> , 2016, 75, 320-327.	5.3	44

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19	Gene Regulation by H-NS as a Function of Growth Conditions Depends on Chromosomal Position in <i>Escherichia coli</i> . <i>G3: Genes, Genomes, Genetics</i> , 2015, 5, 605-614.	0.8	39
20	The nucleoid as a smart polymer. <i>Frontiers in Microbiology</i> , 2015, 6, 424.	1.5	8
21	Bacterial nucleoid structure probed by active drag and resistive pulse sensing. <i>Integrative Biology (United Kingdom)</i> , 2014, 6, 184-191.	0.6	9
22	Measuring bacterial adaptation dynamics at the single-cell level using a microfluidic chemostat and time-lapse fluorescence microscopy. <i>Analyst, The</i> , 2014, 139, 5254-5262.	1.7	18
23	A new look at genome size, evolutionary duration and genetic variation in salamanders. <i>Comptes Rendus - Palevol</i> , 2014, 13, 611-621.	0.1	12
24	Gene silencing and large-scale domain structure of the <i>E. coli</i> genome. <i>Molecular BioSystems</i> , 2013, 9, 758.	2.9	17
25	Microfluidic chemostat for measuring single cell dynamics in bacteria. <i>Lab on A Chip</i> , 2013, 13, 947.	3.1	134
26	Temperature-dependence of the DnaA-DNA interaction and its effect on the autoregulation of <i>dnaA</i> expression. <i>Biochemical Journal</i> , 2013, 449, 333-341.	1.7	10
27	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
28	Topological characterization of the DnaA-oriC complex using single-molecule nanomanipulation. <i>Nucleic Acids Research</i> , 2012, 40, 7375-7383.	6.5	27
29	Gene clusters reflecting macrodomain structure respond to nucleoid perturbations. <i>Molecular BioSystems</i> , 2011, 7, 878-888.	2.9	24
30	DnaA and the timing of chromosome replication in <i>Escherichia coli</i> as a function of growth rate. <i>BMC Systems Biology</i> , 2011, 5, 201.	3.0	23
31	DnaA-ATP acts as a molecular switch to control levels of ribonucleotide reductase expression in <i>Escherichia coli</i> . <i>Molecular Microbiology</i> , 2010, 76, 1555-1571.	1.2	46
32	DNA melting by RNA polymerase at the T7A1 promoter precedes the rate-limiting step at 37°C and results in the accumulation of an off-pathway intermediate. <i>Nucleic Acids Research</i> , 2009, 37, 5390-5404.	6.5	31
33	Time-resolved footprinting for the study of the structural dynamics of DNA-protein interactions. <i>Biochemical Society Transactions</i> , 2008, 36, 745-748.	1.6	3
34	Study of Bacteriophage T4-encoded Dam DNA (Adenine-N6)-methyltransferase Binding with Substrates by Rapid Laser UV Cross-linking. <i>Journal of Biological Chemistry</i> , 2007, 282, 26067-26076.	1.6	6
35	Differential methylation kinetics of individual target site strands by T4Dam DNA methyltransferase. <i>Biological Chemistry</i> , 2007, 388, 1199-1207.	1.2	5
36	Ribonucleotide reductase and the regulation of DNA replication: an old story and an ancient heritage. <i>Molecular Microbiology</i> , 2007, 63, 22-34.	1.2	134

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37	The multiple roles of CRP at the complex <i>acs</i> promoter depend on activation region 2 and IHF. <i>Molecular Microbiology</i> , 2007, 65, 425-440.	1.2	10
38	From The Cover: Real-time characterization of intermediates in the pathway to open complex formation by <i>Escherichia coli</i> RNA polymerase at the T7A1 promoter. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 4706-4711.	3.3	90
39	Bacteriophage T4 Dam DNA-(Adenine-N6)-methyltransferase. <i>Journal of Biological Chemistry</i> , 2004, 279, 50012-50018.	1.6	9
40	Phage T4 early promoters are resistant to inhibition by the anti-sigma factor AsiA. <i>Molecular Microbiology</i> , 2004, 52, 1013-1028.	1.2	16
41	<i>Mycobacterium tuberculosis</i> Rv1395 Is a Class III Transcriptional Regulator of the AraC Family Involved in Cytochrome P450 Regulation. <i>Journal of Biological Chemistry</i> , 2003, 278, 33763-33773.	1.6	23
42	[22] Time-resolved synchrotron X-ray footprinting and its application to RNA folding. <i>Methods in Enzymology</i> , 2000, 317, 353-368.	0.4	72
43	The Early Folding Intermediates of the <i>Tetrahymena</i> Ribozyme are Kinetically Trapped. <i>Journal of Biomolecular Structure and Dynamics</i> , 2000, 17, 195-200.	2.0	4
44	Low frequency vibrations of amino acid homopolymers observed by synchrotron far-ir absorption spectroscopy: Excited state effects dominate the temperature dependence of the spectra. <i>Biopolymers</i> , 1999, 49, 591-603.	1.2	40
45	RNA Folding at Millisecond Intervals by Synchrotron Hydroxyl Radical Footprinting. <i>Science</i> , 1998, 279, 1940-1943.	6.0	378
46	A new method for examining the dynamics of macromolecules: Time-resolved synchrotron x-ray footprinting. <i>Synchrotron Radiation News</i> , 1998, 11, 7-16.	0.2	6
47	[19] Following the folding of RNA with time-resolved synchrotron X-ray footprinting. <i>Methods in Enzymology</i> , 1998, 295, 379-402.	0.4	74
48	Time-resolved synchrotron X-ray footprinting, 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. <i>Journal of Molecular Biology</i> , 1997, 266, 144-159.	2.0	174
49	Examining the conformational dynamics of macromolecules with time-resolved synchrotron X-ray footprinting. <i>Structure</i> , 1997, 5, 865-869.	1.6	46
50	Global Mapping of Structural Solutions Provided by the Extended X-ray Absorption Fine Structure ab Initio Code FEFF 6.01: Structure of the Cryogenic Photoproduct of the Myoglobin-Carbon Monoxide Complex. <i>Biochemistry</i> , 1996, 35, 9014-9023.	1.2	30
51	Fractal-like patterns in DNA films, B form at 0% relative humidity, and antiheteronomous DNA: An ir study. <i>Biopolymers</i> , 1994, 34, 1105-1113.	1.2	16
52	Vibrational dynamics of wet-spun films of the NaDNA-netropsin complex: A Raman and infrared study. <i>Physical Review E</i> , 1993, 48, 2240-2245.	0.8	6