Claudio Rivetti

List of Publications by Year
in descending order

58	3,543	218677	182427
papers	citations	26 h-index	51 g-index

58	58	58	3880
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Scanning Force Microscopy of DNA Deposited onto Mica: EquilibrationversusKinetic Trapping Studied by Statistical Polymer Chain Analysis. Journal of Molecular Biology, 1996, 264, 919-932.	4.2	641
2	Polymer chain statistics and conformational analysis of DNA molecules with bends or sections of different flexibility. Journal of Molecular Biology, 1998, 280, 41-59.	4.2	279
3	Direct Observation of One-Dimensional Diffusion and Transcription by Escherichia coli RNA Polymerase. Biophysical Journal, 1999, 77, 2284-2294.	0.5	238
4	DNA Condensation and Cell Transfection Properties of Guanidinium Calixarenes:â€‰ Dependence on Macrocycle Lipophilicity, Size, and Conformation. Journal of the American Chemical Society, 2006, 128, 14528-14536.	13.7	199
5	Wrapping of DNA around the E.coli RNA polymerase open promoter complex. EMBO Journal, 1999, 18, 4464-4475.	7.8	195
6	Scanning force microscopy under aqueous solutions. Current Opinion in Structural Biology, 1997, 7, 709-716.	5.7	181
7	DNA condensation and self-aggregation of Escherichia coli Dps are coupled phenomena related to the properties of the N-terminus. Nucleic Acids Research, 2004, 32, 5935-5944.	14.5	156
8	Oxygen binding by single crystals of hemoglobin. Biochemistry, 1993, 32, 2888-2906.	2.5	128
9	Crystals of haemoglobin with the T quaternary structure bind oxygen noncooperatively with no Bohr effect. Nature, 1991, 351, 416-419.	27.8	121
10	Accurate length determination of DNA molecules visualized by atomic force microscopy: evidence for a partial B- to A-form transition on mica. Ultramicroscopy, 2001, 87, 55-66.	1.9	108
11	Collision events between RNA polymerases in convergent transcription studied by atomic force microscopy. Nucleic Acids Research, 2006, 34, 5416-5425.	14.5	102
12	Genetic analysis and morphological identification of pilus-like structures in members of the genus Bifidobacterium. Microbial Cell Factories, 2011, 10, S16.	4.0	84
13	The neutrophil-activating Dps protein of Helicobacter pylori, HP-NAP, adopts a mechanism different from Escherichia coli Dps to bind and condense DNA. Nucleic Acids Research, 2007, 35, 2247-2256.	14.5	81
14	Titanium dioxide nanoparticles promote arrhythmias via a direct interaction with rat cardiac tissue. Particle and Fibre Toxicology, 2014, 11, 63.	6.2	76
15	High and low oxygen affinity conformations of T state hemoglobin. Protein Science, 2008, 10, 2401-2407.	7.6	74
16	Conformation-sensitive Antibodies against Alzheimer Amyloid-Î² by Immunization with a Thioredoxin-constrained B-cell Epitope Peptide. Journal of Biological Chemistry, 2007, 282, 11436-11445.	3.4	66
17	Visualizing RNA Extrusion and DNA Wrapping in Transcription Elongation Complexes of Bacterial and Eukaryotic RNA Polymerases. Journal of Molecular Biology, 2003, 326, 1413-1426.	4.2	62
18	Distinct roles of transcription factors TFIIIB and TFIIIC in RNA polymerase III transcription reinitiation. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 13442-13447.	7.1	60

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19	Simple Model for DNA Adsorption onto a Mica Surface in 1:1 and 2:1 Electrolyte Solutions. Langmuir, 2006, 22, 7678-7688.	3.5	51
20	Allosteric effectors do not alter the oxygen affinity of hemoglobin crystals. Protein Science, 1997, 6, 484-489.	7.6	50
21	Structure and Oxygen Affinity of Crystalline of DesArg141Î± Human Hemoglobin A in the T State. Journal of Molecular Biology, 1995, 248, 136-150.	4.2	49
22	Gene expression profiling in human age-related nuclear cataract. Molecular Vision, 2003, 9, 538-48.	1.1	39
23	Cooperative Oxygen Binding to Scapharca inaequivalvis Hemoglobin in the Crystal. Journal of Biological Chemistry, 1996, 271, 3627-3632.	3.4	37
24	Upstream promoter sequences and Î±CTD mediate stable DNA wrapping within the RNA polymeraseâ€“promoter open complex. EMBO Reports, 2007, 8, 271-278.	4.5	32
25	A Nick-sensing DNA 3â€²-Repair Enzyme fromArabidopsis. Journal of Biological Chemistry, 2002, 277, 23675-23683.	3.4	31
26	Metal-responsive promoter DNA compaction by the ferric uptake regulator. Nature Communications, 2016, 7, 12593.	12.8	27
27	Effect of chloride on oxygen binding to crystals of hemoglobin Rothschild (.beta.37 Trp .fwdarw. Arg) in the T quaternary structure. Biochemistry, 1993, 32, 6411-6418.	2.5	24
28	Lactococcal phage p2 ORF35â€Sak3 is an ATPase involved in DNA recombination and AbiK mechanism. Molecular Microbiology, 2011, 80, 102-116.	2.5	23
29	Physiological, Biochemical, and Biophysical Characterization of the Lung-Lavaged Spontaneously-Breathing Rabbit as a Model for Respiratory Distress Syndrome. PLoS ONE, 2017, 12, e0169190.	2.5	23
30	New insights into the regulatory mechanisms of ppGpp and DksA on Escherichia coli RNA polymeraseâ€“promoter complex. Nucleic Acids Research, 2015, 43, 5249-5262.	14.5	21
31	Toward the identification of a type I toxin-antitoxin system in the plasmid DNA of dairy Lactobacillus rhamnosus. Scientific Reports, 2017, 7, 12051.	3.3	21
32	Deciphering the function of lactococcal phage ul36 Sak domains. Journal of Structural Biology, 2010, 170, 462-469.	2.8	20
33	Epifluorescence and atomic force microscopy: Two innovative applications for studying phageâ€“host interactions in Lactobacillus helveticus. Journal of Microbiological Methods, 2012, 88, 41-46.	1.6	20
34	Cytotoxic activity of copper(<scp>ii</scp>), nickel(<scp>ii</scp>) and platinum(<scp>ii</scp>) thiosemicarbazone derivatives: interaction with DNA and the H2A histone peptide. Metallomics, 2019, 11, 1729-1742.	2.4	20
35	Structural and functional properties of lengsin, a pseudo-glutamine synthetase in the transparent human lens. Biochemical and Biophysical Research Communications, 2006, 350, 424-429.	2.1	19
36	X-ray and spectrophotometric studies of the binding of proflavin to the S1 specificity pocket of human Î±-thrombin. FEBS Letters, 1998, 425, 229-233.	2.8	18

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37	Study of DNA binding and bending by Bacillus subtilis GabR, a PLP-dependent transcription factor. Biochimica Et Biophysica Acta - General Subjects, 2017, 1861, 3474-3489.	2.4	18
38	Analysis of single, cisplatinâ€induced DNA bends by atomic force microscopy and simulations. Journal of Molecular Recognition, 2018, 31, e2731.	2.1	17
39	Sequence-Dependent Upstream DNAâ€“RNA Polymerase Interactions in the Open Complex with Î»PR and Î»PRM Promoters and Implications for the Mechanism of Promoter Interference. Journal of Molecular Biology, 2009, 385, 748-760.	4.2	16
40	Structure and function of phage p2 ORF34_{p2}, a new type of singleâ€stranded DNA binding protein. Molecular Microbiology, 2009, 73, 1156-1170.	2.5	15
41	Specificity of the TraAâ€“DNA Interaction in the Regulation of the pPD1-Encoded Sex Pheromone Response in Enterococcus faecalis. Journal of Molecular Biology, 2008, 380, 932-945.	4.2	14
42	Transcription reinitiation properties of bacteriophage T7 RNA polymerase. Biochemical and Biophysical Research Communications, 2004, 315, 376-380.	2.1	13
43	A simple and optimized length estimator for digitized DNA contours. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2009, 75A, 854-861.	1.5	13
44	Functional characterization of the type I toxin Lpt from Lactobacillus rhamnosus by fluorescenceÂand atomic force microscopy. Scientific Reports, 2019, 9, 15208.	3.3	12
45	Actin-Resistant DNase1L2 as a Potential Therapeutics for CF Lung Disease. Biomolecules, 2021, 11, 410.	4.0	9
46	Single DNA Molecule Analysis of Transcription Complexes. Methods in Enzymology, 2003, 371, 34-50.	1.0	8
47	Patterned gallium surfaces as molecular mirrors. Biosensors and Bioelectronics, 2007, 23, 290-294.	10.1	8
48	Unravelling mechanisms behind the biological activity of bis(S-citronellalthiosemicarbazonato)nickel(ii). Metallomics, 2014, 6, 783.	2.4	8
49	Identification and first characterization of DinJ-YafQ toxin-antitoxin systems in Lactobacillus species of biotechnological interest. Scientific Reports, 2019, 9, 7645.	3.3	7
50	In vitro characterization and in vivo comparison of the pulmonary outcomes of Poractant alfa and Calsurf in ventilated preterm rabbits. PLoS ONE, 2020, 15, e0230229.	2.5	7
51	Strategies to Investigate Membrane Damage, Nucleoid Condensation, and RNase Activity of Bacterial Toxinâ€“Antitoxin Systems. Methods and Protocols, 2021, 4, 71.	2.0	2
52	DNA Contour Length Measurements as a Tool for the Structural Analysis of DNA and Nucleoprotein Complexes. Methods in Molecular Biology, 2011, 749, 235-254.	0.9	0
53	Title is missing!. , 2020, 15, e0230229.		0
54	Title is missing!. , 2020, 15, e0230229.		0

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55	Title is missing!. , 2020, 15, e0230229.		0
56	Title is missing!. , 2020, 15, e0230229.		0
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58	Title is missing!. , 2020, 15, e0230229.		0