

# Claudio Rivetti

## List of Publications by Year in descending order

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58  
papers

3,543  
citations

218592

26  
h-index

182361

51  
g-index

58  
all docs

58  
docs citations

58  
times ranked

3880  
citing authors

#	ARTICLE	IF	CITATIONS
1	Scanning Force Microscopy of DNA Deposited onto Mica: Equilibration versus Kinetic Trapping Studied by Statistical Polymer Chain Analysis. <i>Journal of Molecular Biology</i> , 1996, 264, 919-932.	2.0	641
2	Polymer chain statistics and conformational analysis of DNA molecules with bends or sections of different flexibility. <i>Journal of Molecular Biology</i> , 1998, 280, 41-59.	2.0	279
3	Direct Observation of One-Dimensional Diffusion and Transcription by Escherichia coli RNA Polymerase. <i>Biophysical Journal</i> , 1999, 77, 2284-2294.	0.2	238
4	DNA Condensation and Cell Transfection Properties of Guanidinium Calixarenes: Dependence on Macrocyclic Lipophilicity, Size, and Conformation. <i>Journal of the American Chemical Society</i> , 2006, 128, 14528-14536.	6.6	199
5	Wrapping of DNA around the E. coli RNA polymerase open promoter complex. <i>EMBO Journal</i> , 1999, 18, 4464-4475.	3.5	195
6	Scanning force microscopy under aqueous solutions. <i>Current Opinion in Structural Biology</i> , 1997, 7, 709-716.	2.6	181
7	DNA condensation and self-aggregation of Escherichia coli Dps are coupled phenomena related to the properties of the N-terminus. <i>Nucleic Acids Research</i> , 2004, 32, 5935-5944.	6.5	156
8	Oxygen binding by single crystals of hemoglobin. <i>Biochemistry</i> , 1993, 32, 2888-2906.	1.2	128
9	Crystals of haemoglobin with the T quaternary structure bind oxygen noncooperatively with no Bohr effect. <i>Nature</i> , 1991, 351, 416-419.	13.7	121
10	Accurate length determination of DNA molecules visualized by atomic force microscopy: evidence for a partial B- to A-form transition on mica. <i>Ultramicroscopy</i> , 2001, 87, 55-66.	0.8	108
11	Collision events between RNA polymerases in convergent transcription studied by atomic force microscopy. <i>Nucleic Acids Research</i> , 2006, 34, 5416-5425.	6.5	102
12	Genetic analysis and morphological identification of pilus-like structures in members of the genus <i>Bifidobacterium</i> . <i>Microbial Cell Factories</i> , 2011, 10, S16.	1.9	84
13	The neutrophil-activating Dps protein of <i>Helicobacter pylori</i> , HP-NAP, adopts a mechanism different from <i>Escherichia coli</i> Dps to bind and condense DNA. <i>Nucleic Acids Research</i> , 2007, 35, 2247-2256.	6.5	81
14	Titanium dioxide nanoparticles promote arrhythmias via a direct interaction with rat cardiac tissue. <i>Particle and Fibre Toxicology</i> , 2014, 11, 63.	2.8	76
15	High and low oxygen affinity conformations of T state hemoglobin. <i>Protein Science</i> , 2008, 10, 2401-2407.	3.1	74
16	Conformation-sensitive Antibodies against Alzheimer Amyloid- $\beta^2$ by Immunization with a Thioredoxin-constrained B-cell Epitope Peptide. <i>Journal of Biological Chemistry</i> , 2007, 282, 11436-11445.	1.6	66
17	Visualizing RNA Extrusion and DNA Wrapping in Transcription Elongation Complexes of Bacterial and Eukaryotic RNA Polymerases. <i>Journal of Molecular Biology</i> , 2003, 326, 1413-1426.	2.0	62
18	Distinct roles of transcription factors TFIIB and TFIIC in RNA polymerase III transcription reinitiation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 13442-13447.	3.3	60

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19	Simple Model for DNA Adsorption onto a Mica Surface in 1:1 and 2:1 Electrolyte Solutions. <i>Langmuir</i> , 2006, 22, 7678-7688.	1.6	51
20	Allosteric effectors do not alter the oxygen affinity of hemoglobin crystals. <i>Protein Science</i> , 1997, 6, 484-489.	3.1	50
21	Structure and Oxygen Affinity of Crystalline of DesArg141± Human Hemoglobin A in the T State. <i>Journal of Molecular Biology</i> , 1995, 248, 136-150.	2.0	49
22	Gene expression profiling in human age-related nuclear cataract. <i>Molecular Vision</i> , 2003, 9, 538-48.	1.1	39
23	Cooperative Oxygen Binding to <i>Scapharca inaequalvis</i> Hemoglobin in the Crystal. <i>Journal of Biological Chemistry</i> , 1996, 271, 3627-3632.	1.6	37
24	Upstream promoter sequences and ±CTD mediate stable DNA wrapping within the RNA polymerase±promoter open complex. <i>EMBO Reports</i> , 2007, 8, 271-278.	2.0	32
25	A Nick-sensing DNA ±Repair Enzyme from <i>Arabidopsis</i> . <i>Journal of Biological Chemistry</i> , 2002, 277, 23675-23683.	1.6	31
26	Metal-responsive promoter DNA compaction by the ferric uptake regulator. <i>Nature Communications</i> , 2016, 7, 12593.	5.8	27
27	Effect of chloride on oxygen binding to crystals of hemoglobin Rothschild (.beta.37 Trp .fwdarw. Arg) in the T quaternary structure. <i>Biochemistry</i> , 1993, 32, 6411-6418.	1.2	24
28	Lactococcal phage p2 ORF35±Sak3 is an ATPase involved in DNA recombination and AbiK mechanism. <i>Molecular Microbiology</i> , 2011, 80, 102-116.	1.2	23
29	Physiological, Biochemical, and Biophysical Characterization of the Lung-Lavaged Spontaneously-Breathing Rabbit as a Model for Respiratory Distress Syndrome. <i>PLoS ONE</i> , 2017, 12, e0169190.	1.1	23
30	New insights into the regulatory mechanisms of ppGpp and DksA on <i>Escherichia coli</i> RNA polymerase±promoter complex. <i>Nucleic Acids Research</i> , 2015, 43, 5249-5262.	6.5	21
31	Toward the identification of a type I toxin-antitoxin system in the plasmid DNA of dairy <i>Lactobacillus rhamnosus</i> . <i>Scientific Reports</i> , 2017, 7, 12051.	1.6	21
32	Deciphering the function of lactococcal phage ul36 Sak domains. <i>Journal of Structural Biology</i> , 2010, 170, 462-469.	1.3	20
33	Epifluorescence and atomic force microscopy: Two innovative applications for studying phage±host interactions in <i>Lactobacillus helveticus</i> . <i>Journal of Microbiological Methods</i> , 2012, 88, 41-46.	0.7	20
34	Cytotoxic activity of copper(±), nickel(±) and platinum(±) thiosemicarbazone derivatives: interaction with DNA and the H2A histone peptide. <i>Metallomics</i> , 2019, 11, 1729-1742.	1.0	20
35	Structural and functional properties of lengsin, a pseudo-glutamine synthetase in the transparent human lens. <i>Biochemical and Biophysical Research Communications</i> , 2006, 350, 424-429.	1.0	19
36	X-ray and spectrophotometric studies of the binding of proflavin to the S1 specificity pocket of human ±thrombin. <i>FEBS Letters</i> , 1998, 425, 229-233.	1.3	18

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37	Study of DNA binding and bending by <i>Bacillus subtilis</i> GabR, a PLP-dependent transcription factor. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2017, 1861, 3474-3489.	1.1	18
38	Analysis of single, cisplatin-induced DNA bends by atomic force microscopy and simulations. <i>Journal of Molecular Recognition</i> , 2018, 31, e2731.	1.1	17
39	Sequence-Dependent Upstream DNA-RNA Polymerase Interactions in the Open Complex with $\sigma^{PR}$ and $\sigma^{PRM}$ Promoters and Implications for the Mechanism of Promoter Interference. <i>Journal of Molecular Biology</i> , 2009, 385, 748-760.	2.0	16
40	Structure and function of phage p2 ORF34, a new type of single-stranded DNA binding protein. <i>Molecular Microbiology</i> , 2009, 73, 1156-1170.	1.2	15
41	Specificity of the Tra-DNA Interaction in the Regulation of the pPD1-Encoded Sex Pheromone Response in <i>Enterococcus faecalis</i> . <i>Journal of Molecular Biology</i> , 2008, 380, 932-945.	2.0	14
42	Transcription reinitiation properties of bacteriophage T7 RNA polymerase. <i>Biochemical and Biophysical Research Communications</i> , 2004, 315, 376-380.	1.0	13
43	A simple and optimized length estimator for digitized DNA contours. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , 2009, 75A, 854-861.	1.1	13
44	Functional characterization of the type I toxin Lpt from <i>Lactobacillus rhamnosus</i> by fluorescence and atomic force microscopy. <i>Scientific Reports</i> , 2019, 9, 15208.	1.6	12
45	Actin-Resistant DNase1L2 as a Potential Therapeutics for CF Lung Disease. <i>Biomolecules</i> , 2021, 11, 410.	1.8	9
46	Single DNA Molecule Analysis of Transcription Complexes. <i>Methods in Enzymology</i> , 2003, 371, 34-50.	0.4	8
47	Patterned gallium surfaces as molecular mirrors. <i>Biosensors and Bioelectronics</i> , 2007, 23, 290-294.	5.3	8
48	Unravelling mechanisms behind the biological activity of bis(S-citronellalthiosemicarbazonato)nickel(ii). <i>Metallomics</i> , 2014, 6, 783.	1.0	8
49	Identification and first characterization of DinJ-YafQ toxin-antitoxin systems in <i>Lactobacillus</i> species of biotechnological interest. <i>Scientific Reports</i> , 2019, 9, 7645.	1.6	7
50	In vitro characterization and in vivo comparison of the pulmonary outcomes of Poractant alfa and Calsurf in ventilated preterm rabbits. <i>PLoS ONE</i> , 2020, 15, e0230229.	1.1	7
51	Strategies to Investigate Membrane Damage, Nucleoid Condensation, and RNase Activity of Bacterial Toxin-Antitoxin Systems. <i>Methods and Protocols</i> , 2021, 4, 71.	0.9	2
52	DNA Contour Length Measurements as a Tool for the Structural Analysis of DNA and Nucleoprotein Complexes. <i>Methods in Molecular Biology</i> , 2011, 749, 235-254.	0.4	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