Maria Ciaramella

List of Publications by Year
in descending order

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56 papers	1,790 citations	279798 23 h-index	289244 40 g-index
57 all docs	57 docs citations	57 times ranked	1677 citing authors

#	Article	IF	Citations
1	Crystal structure of the Î²-glycosidase from the hyperthermophilic archeon Sulfolobus solfataricus: resilience as a key factor in thermostability. Journal of Molecular Biology, 1997, 271, 789-802.	4.2	235
2	Genomic remnants of alpha-globin genes in the hemoglobinless antarctic icefishes.. Proceedings of the National Academy of Sciences of the United States of America, 1995, 92, 1817-1821.	7.1	162
3	Restoration of the Activity of Active-Site Mutants of the Hyperthermophilic Î²-Glycosidase fromSulfolobus solfataricus:Â Dependence of the Mechanism on the Action of External Nucleophilesâ€. Biochemistry, 1998, 37, 17262-17270.	2.5	110
4	An Lrp-Like Protein of the Hyperthermophilic Archaeon <i>Sulfolobus solfataricus</i> Which Binds to Its Own Promoter. Journal of Bacteriology, 1999, 181, 1474-1480.	2.2	75
5	RNA topoisomerase is prevalent in all domains of life and associates with polyribosomes in animals. Nucleic Acids Research, 2016, 44, 6335-6349.	14.5	63
6	DNA bending, compaction and negative supercoiling by the architectural protein Sso7d of Sulfolobus solfataricus. Nucleic Acids Research, 2002, 30, 2656-2662.	14.5	57
7	Identification of two glutamic acid residues essential for catalysis in the Î²-glycosidase from the thermoacidophilic archaeon Sulfolobus solfataricus. Protein Engineering, Design and Selection, 1996, 9, 1191-1195.	2.1	50
8	Another extreme genome: how to live at pH 0. Trends in Microbiology, 2005, 13, 49-51.	7.7	47
9	Annealing of complementary DNA strands above the melting point of the duplex promoted by an archaeal protein. Journal of Molecular Biology, 1997, 267, 841-848.	4.2	46
10	Reverse Gyrase Recruitment to DNA after UV Light Irradiation in Sulfolobus solfataricus. Journal of Biological Chemistry, 2004, 279, 33192-33198.	3.4	46
11	Reverse gyrase and genome stability in hyperthermophilic organisms. Biochemical Society Transactions, 2009, 37, 69-73.	3.4	41
12	Selective degradation of reverse gyrase and DNA fragmentation induced by alkylating agent in the archaeon Sulfolobus solfataricus. Nucleic Acids Research, 2006, 34, 2098-2108.	14.5	38
13	Activity and Regulation of Archaeal DNA Alkyltransferase. Journal of Biological Chemistry, 2012, 287, 4222-4231.	3.4	37
14	Thermostable Î²-Glycosidase fromSulfolobus Solfataricus. Biocatalysis, 1994, 11, 89-103.	0.9	34
15	Transcriptional response to DNA damage in the archaeon Sulfolobus solfataricus. Nucleic Acids Research, 2003, 31, 6127-6138.	14.5	33
16	Molecular biology of extremophiles. World Journal of Microbiology and Biotechnology, 1995, 11, 71-84.	3.6	32
17	Activity and stability of hyperthermophilic enzymes: a comparative study on two archaeal Î²-glycosidases. Extremophiles, 2000, 4, 157-164.	2.3	32
18	Do the hemoglobinless icefishes have globin genes?. Comparative Biochemistry and Physiology A, Comparative Physiology, 1997, 118, 1027-1030.	0.6	29

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19	Biochemical and Structural Studies of the Mycobacterium tuberculosis <i>O</i> ⁶ -Methylguanine Methyltransferase and Mutated Variants. Journal of Bacteriology, 2013, 195, 2728-2736.	2.2	29
20	A Novel Member of the Bacterial-Archaeal Regulator Family Is a Nonspecific DNA-binding Protein and Induces Positive Supercoiling. Journal of Biological Chemistry, 2001, 276, 10745-10752.	3.4	27
21	Dissection of reverse gyrase activities: insight into the evolution of a thermostable molecular machine â€. Nucleic Acids Research, 2008, 36, 4587-4597.	14.5	26
22	Structure-function relationships governing activity and stability of a DNA alkylation damage repair thermostable protein. Nucleic Acids Research, 2015, 43, 8801-8816.	14.5	26
23	Functional interaction of reverse gyrase with single-strand binding protein of the archaeon Sulfolobus. Nucleic Acids Research, 2005, 33, 564-576.	14.5	25
24	Structure and Properties of DNA Molecules Over The Full Range of Biologically Relevant Supercoiling States. Scientific Reports, 2018, 8, 6163.	3.3	25
25	Molecular biology of extremophiles: recent progress on the hyperthermophilic archaeon Sulfolobus. Antonie Van Leeuwenhoek, 2002, 81, 85-97.	1.7	23
26	Inhibition of translesion DNA polymerase by archaeal reverse gyrase. Nucleic Acids Research, 2009, 37, 4287-4295.	14.5	23
27	New control elements of bacteriophage T4 pre-replicative transcription. Journal of Molecular Biology, 1985, 182, 249-263.	4.2	22
28	Î²-Glycosidase from Sulfolobus solfataricus. Methods in Enzymology, 2001, 330, 201-215.	1.0	21
29	A novel thermostable protein-tag: optimization of the Sulfolobus solfataricus DNA- alkyl-transferase by protein engineering. Extremophiles, 2016, 20, 1-13.	2.3	21
30	Structure, evolution and properties of a novel repetitive DNA family inCaenorhabditis elegans. Nucleic Acids Research, 1988, 16, 8213-8231.	14.5	20
31	Enzymatic synthesis of oligosaccharides by two glycosyl hydrolases of Sulfolobus solfataricus. Extremophiles, 2001, 5, 145-152.	2.3	20
32	Lack of Strand-specific Repair of UV-induced DNA Lesions in Three Genes of the Archaeon Sulfolobus solfataricus. Journal of Molecular Biology, 2007, 365, 921-929.	4.2	20
33	Ionic network at the C-terminus of the ?-glycosidase from the hyperthermophilic archaeonSulfolobus solfataricus: Functional role in the quaternary structure thermal stabilization. Proteins: Structure, Function and Bioinformatics, 2002, 48, 98-106.	2.6	19
34	Positive supercoiling in thermophiles and mesophiles: of the good and evil. Biochemical Society Transactions, 2011, 39, 58-63.	3.4	19
35	In vivo and in vitro protein imaging in thermophilic archaea by exploiting a novel protein tag. PLoS ONE, 2017, 12, e0185791.	2.5	19
36	Chromatin Structure and Dynamics in Hot Environments: Architectural Proteins and DNA Topoisomerases of Thermophilic Archaea. International Journal of Molecular Sciences, 2014, 15, 17162-17187.	4.1	18

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37	Crystal structure of <i>Mycobacterium tuberculosis O</i>6-methylguanine-DNA methyltransferase protein clusters assembled on to damaged DNA. Biochemical Journal, 2016, 473, 123-133.	3.7	18
38	Interdomain interactions rearrangements control the reaction steps of a thermostable DNA alkyltransferase. Biochimica Et Biophysica Acta - General Subjects, 2017, 1861, 86-96.	2.4	18
39	PCR amplification and cloning of metallothionein complementary DNAs in temperate and Antarctic sea urchin characterized by a large difference in egg metallothionein content. Cellular and Molecular Life Sciences, 1997, 53, 472-477.	5.4	16
40	The Reverse Gyrase from Pyrobaculum calidifontis, a Novel Extremely Thermophilic DNA Topoisomerase Endowed with DNA Unwinding and Annealing Activities. Journal of Biological Chemistry, 2014, 289, 3231-3243.	3.4	15
41	Genome stability: recent insights in the topoisomerase reverse gyrase and thermophilic DNA alkyltransferase. Extremophiles, 2014, 18, 895-904.	2.3	14
42	Every OGT Is Illuminated â€¦ by Fluorescent and Synchrotron Lights. International Journal of Molecular Sciences, 2017, 18, 2613.	4.1	14
43	Synergic and Opposing Activities of Thermophilic RecQ-like Helicase and Topoisomerase 3 Proteins in Holliday Junction Processing and Replication Fork Stabilization. Journal of Biological Chemistry, 2012, 287, 30282-30295.	3.4	13
44	Activity and regulation of archaeal DNA alkyltransferase. CONSERVED PROTEIN INVOLVED IN REPAIR OF DNA ALKYLATION DAMAGE.. Journal of Biological Chemistry, 2015, 290, 885.	3.4	12
45	NurA Is Endowed with Endo- and Exonuclease Activities that Are Modulated by HerA: New Insight into Their Role in DNA-End Processing. PLoS ONE, 2015, 10, e0142345.	2.5	12
46	Molecular biology of hyperthermophilic Archaea. Advances in Biochemical Engineering/Biotechnology, 1998, 61, 87-115.	1.1	11
47	The DNA Alkylguanine DNA Alkyltransferase-2 (AGT-2) Of Caenorhabditis Elegans Is Involved In Meiosis And Early Development Under Physiological Conditions. Scientific Reports, 2019, 9, 6889.	3.3	10
48	The Archaeal Topoisomerase Reverse Gyrase Is a Helix-destabilizing Protein That Unwinds Four-way DNA Junctions. Journal of Biological Chemistry, 2010, 285, 36532-36541.	3.4	8
49	New Insights into Structural and Functional Roles of Indole-3-acetic acid (IAA): Changes in DNA Topology and Gene Expression in Bacteria. Biomolecules, 2019, 9, 522.	4.0	8
50	Reverse gyrase: an unusual DNA manipulator of hyperthermophilic organisms. Italian Journal of Biochemistry, 2007, 56, 103-9.	0.3	8
51	Foreign transcriptional enhancers in yeast. I. Interactions of papovavirus transcriptional enhancers and a quiescent pseudopromoter on supercoiled plasmids. Nucleic Acids Research, 1988, 16, 8847-8868.	14.5	7
52	Foreign transcriptional enhancers in yeast. II. Interplay of the polyomavirus transcriptional enhancer and Saccharomyces cerevisiae promoter elements. Nucleic Acids Research, 1988, 16, 8869-8886.	14.5	4
53	The Prefoldin of the Crenarchaeon Sulfolobus solfataricus. Protein and Peptide Letters, 2008, 15, 1055-1062.	0.9	4
54	Saccharomyces cerevisiaemultifunctional protein RAP1 binds to a conserved sequence in the Polyoma virus enhancer and is responsible for its transcriptional activity in yeast cells. FEBS Letters, 1993, 323, 77-82.	2.8	3

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55	Industrial-Scale Production of Thermostable Enzymes: The Model-System of the Î²-Glycosidase from Sulfolobus Solfataricus. , 1996, , 89-99.		0
56	Structure and Reaction Mechanism of the Î²-Glycosidase from the Archaeon Sulfolobus Solfataricus. , 1998, , 209-212.		0