

Pierre BÃ©guin

List of Publications by Year in descending order

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91
papers

7,330
citations

53794

45
h-index

54911

84
g-index

91
all docs

91
docs citations

91
times ranked

3647
citing authors

#	ARTICLE	IF	CITATIONS
1	The biological degradation of cellulose. FEMS Microbiology Reviews, 1994, 13, 25-58.	8.6	1,137
2	Molecular Biology of Cellulose Degradation. Annual Review of Microbiology, 1990, 44, 219-248.	7.3	522
3	Detection of cellulase activity in polyacrylamide gels using Congo red-stained agar replicas. Analytical Biochemistry, 1983, 131, 333-336.	2.4	279
4	Three-dimensional structure of a thermostable bacterial cellulase. Nature, 1992, 357, 89-91.	27.8	245
5	Nucleotide sequence and deletion analysis of the xylanase gene (<i>xynZ</i>) of <i>Clostridium thermocellum</i> . Journal of Bacteriology, 1988, 170, 4582-4588.	2.2	202
6	The Cellulosome: An Exocellular, Multiprotein Complex Specialized in Cellulose Degradation. Critical Reviews in Biochemistry and Molecular Biology, 1996, 31, 201-236.	5.2	193
7	Stereoselective hydrolysis catalyzed by related beta-1,4-glucanases and beta-1,4-xylanases.. Journal of Biological Chemistry, 1992, 267, 12559-12561.	3.4	193
8	Sequence of a cellulase gene of the thermophilic bacterium <i>Clostridium thermocellum</i> . Journal of Bacteriology, 1985, 162, 102-105.	2.2	187
9	OlpB, a new outer layer protein of <i>Clostridium thermocellum</i> , and binding of its S-layer-like domains to components of the cell envelope. Journal of Bacteriology, 1995, 177, 2451-2459.	2.2	164
10	Interaction of the duplicated segment carried by <i>Clostridium thermocellum</i> cellulases with cellulosome components. FEBS Letters, 1991, 291, 185-188.	2.8	152
11	Organization of a <i>Clostridium thermocellum</i> gene cluster encoding the cellulosomal scaffolding protein CipA and a protein possibly involved in attachment of the cellulosome to the cell surface. Journal of Bacteriology, 1993, 175, 1891-1899.	2.2	152
12	A common protein fold and similar active site in two distinct families of β^2 -glycanases. Nature Structural Biology, 1995, 2, 569-576.	9.7	149
13	Nucleotide sequence of the cellulase gene <i>celD</i> encoding endoglucanase D of <i>Clostridium thermocellum</i> . Nucleic Acids Research, 1986, 14, 8605-8612.	14.5	142
14	A new type of cohesin domain that specifically binds the dockerin domain of the <i>Clostridium thermocellum</i> cellulosome-integrating protein CipA. Journal of Bacteriology, 1996, 178, 3077-3084.	2.2	137
15	Atomic (0.94 Å..) resolution structure of an inverting glycosidase in complex with substrate. Journal of Molecular Biology, 2002, 316, 1061-1069.	4.2	132
16	Calcium-binding affinity and calcium-enhanced activity of <i>Clostridium thermocellum</i> endoglucanase D. Biochemical Journal, 1990, 265, 261-265.	3.7	117
17	Sequence of the cellulase gene of <i>Clostridium thermocellum</i> coding for endoglucanase B. Nucleic Acids Research, 1986, 14, 1791-1799.	14.5	111
18	Recognition specificity of the duplicated segments present in <i>Clostridium thermocellum</i> endoglucanase <i>CelD</i> and in the cellulosome-integrating protein CipA. Journal of Bacteriology, 1994, 176, 2822-2827.	2.2	111

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19	High activity of inclusion bodies formed in <i>Escherichia coli</i> overproducing <i>Clostridium thermocellum</i> endoglucanase D. <i>FEBS Letters</i> , 1991, 282, 205-208.	2.8	102
20	V. Functions of S-layers. <i>FEMS Microbiology Reviews</i> , 1997, 20, 99-149.	8.6	102
21	A catalogue of <i>Clostridium thermocellum</i> endoglucanase, Î ² -glucosidase and xylanase genes cloned in <i>Escherichia coli</i> . <i>FEMS Microbiology Letters</i> , 1988, 51, 231-236.	1.8	100
22	Purification of <i>Clostridium thermocellum</i> xylanase Z expressed in <i>Escherichia coli</i> and identification of the corresponding product in the culture medium of <i>C. thermocellum</i> . <i>Journal of Bacteriology</i> , 1988, 170, 4576-4581.	2.2	95
23	The crystal structure of a type I cohesin domain at 1.7 Å... resolution 1 1Edited by D. Rees. <i>Journal of Molecular Biology</i> , 1997, 273, 701-713.	4.2	92
24	Cloning of a Genetically Unstable Cytochrome P-450 Gene Cluster Involved in Degradation of the Pollutant Ethyl tert -Butyl Ether by <i>Rhodococcus ruber</i> . <i>Journal of Bacteriology</i> , 2001, 183, 6551-6557.	2.2	91
25	Characterization and subcellular localization of the <i>Clostridium thermocellum</i> scaffoldin dockerin binding protein SdbA. <i>Journal of Bacteriology</i> , 1997, 179, 2519-2523.	2.2	87
26	Nucleotide sequence and deletion analysis of the cellulase-encoding gene celH of <i>Clostridium thermocellum</i> . <i>Gene</i> , 1990, 89, 61-67.	2.2	85
27	Subcellular localization of <i>Clostridium thermocellum</i> ORF3p, a protein carrying a receptor for the docking sequence borne by the catalytic components of the cellulosome. <i>Journal of Bacteriology</i> , 1994, 176, 2828-2834.	2.2	83
28	Enhanced Cellulose Fermentation by an Asporogenous and Ethanol-Tolerant Mutant of <i>Clostridium thermocellum</i> . <i>Applied and Environmental Microbiology</i> , 1989, 55, 207-211.	3.1	81
29	Characterization of Two Cel (Cellulose Degradation) Genes of <i>Clostridium Thermocellum</i> Coding for Endoglucanases. <i>Nature Biotechnology</i> , 1983, 1, 589-594.	17.5	80
30	Purification and properties of the endoglucanase C of <i>Clostridium thermocellum</i> produced in <i>Escherichia coli</i> . <i>Biochimie</i> , 1986, 68, 687-695.	2.6	74
31	Properties conferred on <i>Clostridium thermocellum</i> endoglucanase CelC by grafting the duplicated segment of endoglucanase CelD. <i>Protein Engineering, Design and Selection</i> , 1993, 6, 947-952.	2.1	73
32	Distinct Affinity of Binding Sites for S-Layer Homologous Domains in <i>Clostridium thermocellum</i> and <i>Bacillus anthracis</i> Cell Envelopes. <i>Journal of Bacteriology</i> , 1999, 181, 2455-2458.	2.2	73
33	Involvement of separate domains of the cellulosomal protein S1 of <i>Clostridium thermocellum</i> in binding to cellulose and in anchoring of catalytic subunits to the cellulosome. <i>FEBS Letters</i> , 1992, 304, 89-92.	2.8	71
34	Duplicated Dockerin Subdomains of <i>Clostridium thermocellum</i> Endoglucanase CelD Bind to a Cohesin Domain of the Scaffolding Protein CipA with Distinct Thermodynamic Parameters and a Negative Cooperativity. <i>Biochemistry</i> , 2002, 41, 2106-2114.	2.5	70
35	Identification of the endoglucanase encoded by the celB gene of <i>Clostridium thermocellum</i> . <i>Biochimie</i> , 1983, 65, 495-500.	2.6	69
36	Site-directed mutagenesis of essential carboxylic residues in <i>Clostridium thermocellum</i> endoglucanase CelD.. <i>Journal of Biological Chemistry</i> , 1992, 267, 4472-4478.	3.4	65

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37	Transcription of <i>Clostridium thermocellum</i> endoglucanase genes <i>celF</i> and <i>celD</i> . <i>Journal of Bacteriology</i> , 1991, 173, 80-85.	2.2	62
38	The cellulosome of <i>Clostridium thermocellum</i> . <i>Biochemical Society Transactions</i> , 1998, 26, 178-184.	3.4	59
39	Purification and Partial Characterization of Three Extracellular from <i>Cellulomonas</i> sp.. <i>FEBS Journal</i> , 1978, 87, 525-531.	0.2	58
40	Site-directed mutagenesis of essential carboxylic residues in <i>Clostridium thermocellum</i> endoglucanase <i>CelD</i> . <i>Journal of Biological Chemistry</i> , 1992, 267, 4472-8.	3.4	52
41	Crystal structure and functional mapping of human ASMT, the last enzyme of the melatonin synthesis pathway. <i>Journal of Pineal Research</i> , 2013, 54, 46-57.	7.4	51
42	Isolation, Crystallization and Properties of a New Cellulase of <i>Clostridium thermocellum</i> Overproduced in <i>Escherichia coli</i> . <i>Nature Biotechnology</i> , 1986, 4, 896-900.	17.5	50
43	Nucleotide sequence of the cellulase gene <i>celF</i> of <i>Clostridium thermocellum</i> . <i>Research in Microbiology</i> , 1991, 142, 927-936.	2.1	50
44	Interaction between <i>Clostridium thermocellum</i> endoglucanase <i>CelD</i> and polypeptides derived from the cellulosome-integrating protein <i>CipA</i> : stoichiometry and cellulolytic activity of the complexes. <i>Biochemical Journal</i> , 1997, 326, 617-624.	3.7	49
45	Cohesin-Dockerin Interactions within and between <i>Clostridium josui</i> and <i>Clostridium thermocellum</i> . <i>Journal of Biological Chemistry</i> , 2004, 279, 9867-9874.	3.4	49
46	Free and Cellulose-bound Cellulases in a <i>Cellulomonas</i> Species. <i>Journal of General Microbiology</i> , 1977, 101, 191-196.	2.3	48
47	Identification of a histidyl residue in the active center of endoglucanase D from <i>Clostridium thermocellum</i> . <i>Journal of Biological Chemistry</i> , 1991, 266, 10313-10318.	3.4	46
48	Structural and Functional Analysis of the Metal-binding Sites of <i>Clostridium thermocellum</i> Endoglucanase <i>CelD</i> . <i>Journal of Biological Chemistry</i> , 1995, 270, 9757-9762.	3.4	45
49	Expression in <i>Escherichia coli</i> of the <i>Cellulomonas fimi</i> Structural Gene for Endoglucanase B. <i>Applied and Environmental Microbiology</i> , 1988, 54, 518-523.	3.1	44
50	Identification of a histidyl residue in the active center of endoglucanase D from <i>Clostridium thermocellum</i> . <i>Journal of Biological Chemistry</i> , 1991, 266, 10313-8.	3.4	44
51	Site-induced mutagenesis of conserved residues of <i>Clostridium Thermocellum</i> endoglucanase <i>celC</i> . <i>Biochemical and Biophysical Research Communications</i> , 1992, 189, 807-812.	2.1	42
52	Mapping by Site-Directed Mutagenesis of the Region Responsible for Cohesin~Dockerin Interaction on the Surface of the Seventh Cohesin Domain of <i>Clostridium thermocellum</i> <i>CipA</i> . <i>Biochemistry</i> , 2002, 41, 2115-2119.	2.5	42
53	Nucleotide sequence of the <i>celG</i> gene of <i>Clostridium thermocellum</i> and characterization of its product, endoglucanase <i>CelG</i> . <i>Journal of Bacteriology</i> , 1993, 175, 3353-3360.	2.2	41
54	Structures of Intermediates along the Catalytic Cycle of Terminal Deoxynucleotidyltransferase: Dynamical Aspects of the Two-Metal Ion Mechanism. <i>Journal of Molecular Biology</i> , 2013, 425, 4334-4352.	4.2	41

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55	Mapping of mRNA encoding endoglucanase A from <i>Clostridium thermocellum</i> . <i>Molecular Genetics and Genomics</i> , 1986, 202, 251-254.	2.4	39
56	Cloning of Cellulase Genes. <i>Critical Reviews in Biotechnology</i> , 1987, 6, 129-162.	9.0	37
57	The Mr 80,000 common forms of neurophysin and vasopressin from bovine neurohypophysis have corticotropin- and β -endorphin-like sequences and liberate by proteolysis biologically active corticotropin. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1981, 78, 6086-6090.	7.1	36
58	Cellulase and hemicellulase genes of <i>Clostridium thermocellum</i> from five independent collections contain few overlaps and are widely scattered across the chromosome. <i>FEMS Microbiology Letters</i> , 1998, 161, 209-215.	1.8	35
59	Cellulose degradation by <i>Clostridium thermocellum</i> : From manure to molecular biology. <i>FEMS Microbiology Letters</i> , 1992, 100, 523-528.	1.8	34
60	The biological degradation of cellulose. <i>FEMS Microbiology Reviews</i> , 1994, 13, 25-58.	8.6	33
61	Hybrid enzymes. <i>Current Opinion in Biotechnology</i> , 1999, 10, 336-340.	6.6	32
62	Cloning of a <i>Clostridium thermocellum</i> DNA fragment encoding polypeptides that bind the catalytic components of the cellulosome. <i>FEMS Microbiology Letters</i> , 1992, 94, 165-170.	1.8	31
63	Cellulose degradation by <i>Clostridium thermocellum</i> : From manure to molecular biology. <i>FEMS Microbiology Letters</i> , 1992, 100, 523-528.	1.8	29
64	A highly divergent archaeo-eukaryotic primase from the <i>Thermococcus nautilus</i> plasmid, pTN2. <i>Nucleic Acids Research</i> , 2014, 42, 3707-3719.	14.5	25
65	Molecular cloning of a gene for a thermostable β -glucosidase from <i>Clostridium thermocellum</i> into <i>Escherichia coli</i> . <i>Enzyme and Microbial Technology</i> , 1988, 10, 9-13.	3.2	24
66	Enhanced Basophil Reactivities during Severe Malaria and Their Relationship with the <i>Plasmodium falciparum</i> Histamine-Releasing Factor Translationally Controlled Tumor Protein. <i>Infection and Immunity</i> , 2012, 80, 2963-2970.	2.2	23
67	Crystallization and preliminary X-ray diffraction study of an endoglucanase from <i>Clostridium thermocellum</i> . <i>Journal of Molecular Biology</i> , 1986, 189, 249-250.	4.2	22
68	Genes Involved in the Degradation of Ether Fuels by Bacteria of the <i>Mycobacterium/Rhodococcus</i> Group. <i>Oil and Gas Science and Technology</i> , 2003, 58, 489-495.	1.4	22
69	Interaction between a Type-II Dockerin Domain and a Type-II Cohesin Domain from <i>Clostridium thermocellum</i> Cellulosome. <i>Bioscience, Biotechnology and Biochemistry</i> , 2004, 68, 924-926.	1.3	22
70	Structural basis for a novel mechanism of γ -DNA bridging and alignment in eukaryotic γ -DSB DNA repair. <i>EMBO Journal</i> , 2015, 34, 1126-1142.	7.8	21
71	Cell-free synthesis of glial fibrillary acidic protein. <i>Neurochemical Research</i> , 1980, 5, 513-521.	3.3	19
72	Characterization of the 80,000 molecular weight form of neurophysin isolated from bovine neurohypophysis. <i>Journal of Biological Chemistry</i> , 1981, 256, 9289-94.	3.4	19

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73	Identification of Conserved Amino Acid Residues of the Salmonella χ S Chaperone CrI Involved in CrI- χ S Interactions. <i>Journal of Bacteriology</i> , 2010, 192, 1075-1087.	2.2	16
74	Synergism between the cellulosome-integrating protein CipA and endoglucanase CelD of <i>Clostridium thermocellum</i> . <i>Journal of Biotechnology</i> , 1997, 57, 39-47.	3.8	15
75	Production of soluble, active acetyl serotonin methyl transferase in <i>Leishmania tarentolae</i> . <i>Protein Expression and Purification</i> , 2011, 75, 114-118.	1.3	13
76	¹ H, ¹³ C, ¹⁵ N NMR sequence-specific resonance assignment of a <i>Clostridium thermocellum</i> type II cohesin module. <i>Journal of Biomolecular NMR</i> , 2002, 23, 73-74.	2.8	12
77	Time- and temperature-dependent acetylation of the chemokine RANTES produced in recombinant <i>Escherichia coli</i> . <i>Protein Expression and Purification</i> , 2007, 55, 9-16.	1.3	12
78	Crystallization and Preliminary Diffraction Analysis of the Catalytic Domain of Xylanase Z from <i>Clostridium thermocellum</i> . <i>Journal of Molecular Biology</i> , 1994, 235, 1348-1350.	4.2	11
79	Synergistic template-free synthesis of dsDNA by <i>Thermococcus nautili</i> primase PolpTN2, DNA polymerase PolB, and pTN2 helicase. <i>Extremophiles</i> , 2015, 19, 69-76.	2.3	10
80	Crystalline endoglucanase D of <i>Clostridium thermocellum</i> overproduced in <i>Escherichia coli</i> . <i>Methods in Enzymology</i> , 1988, 160, 355-362.	1.0	8
81	Multiple crystal forms of endoglucanase CelD: Signal peptide residues modulate lattice formation. <i>Journal of Molecular Biology</i> , 1995, 248, 225-232.	4.2	7
82	Heterologous hybridization of bacterial DNA to the endoglucanases A and B structural genes celA and celB of <i>Clostridium thermocellum</i> . <i>Annales De L'Institut Pasteur Microbiologie</i> , 1985, 136, 113-124.	0.6	6
83	Subcloning of a dna fragment encoding a single cohesin domain of the <i>Clostridium thermocellum</i> cellulosome-integrating protein cipA: Purification, crystallization, and preliminary diffraction analysis of the encoded polypeptide. <i>Protein Science</i> , 1996, 5, 1192-1194.	7.6	6
84	Comparison of two scaffolding polypeptides for the integration of different proteins in synthetic complexes derived from the <i>Clostridium thermocellum</i> cellulosome. <i>Enzyme and Microbial Technology</i> , 1998, 22, 588-593.	3.2	5
85	Crystallization of a family 8 cellulase from <i>Clostridium thermocellum</i> . <i>Proteins: Structure, Function and Bioinformatics</i> , 1996, 25, 134-136.	2.6	5
86	The SF1 helicase encoded by the archaeal plasmid pTN2 of <i>Thermococcus nautili</i> . <i>Extremophiles</i> , 2014, 18, 779-787.	2.3	3
87	Cellulase and hemicellulase genes of <i>Clostridium thermocellum</i> from five independent collections contain few overlaps and are widely scattered across the chromosome. <i>FEMS Microbiology Letters</i> , 1998, 161, 209-215.	1.8	3
88	Genes and Proteins Involved in Cellulose and Xylan Degradation by <i>Clostridium thermocellum</i> . <i>Brock/Springer Series in Contemporary Bioscience</i> , 1993, , 412-422.	0.3	2
89	Identification of N - and C -terminal corticotropin peptides in the M r 80 000 form of neurophysin. <i>FEBS Letters</i> , 1982, 147, 120-124.	2.8	1
90	Crystallization of a family 8 cellulase from <i>Clostridium thermocellum</i> . <i>Proteins: Structure, Function and Bioinformatics</i> , 1996, 25, 134-136.	2.6	1

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91	Cloning and expression of twoClostridium thermocellum endoglucanase genes inEscherichia coli. Applied Biochemistry and Biotechnology, 1984, 9, 349-350.	2.9	0