Peter Setlow

List of Publications by Year
in descending order

400 papers	26,133 citations	6233 80 h-index	11288 136 g-index
408 all docs	408 docs citations	408 times ranked	9244 citing authors

#	Article	IF	Citations
1	Resistance of Bacillus Endospores to Extreme Terrestrial and Extraterrestrial Environments. Microbiology and Molecular Biology Reviews, 2000, 64, 548-572.	2.9	1,656
2	Spores of Bacillus subtilis: their resistance to and killing by radiation, heat and chemicals. Journal of Applied Microbiology, 2006, 101, 514-525.	1.4	1,204
3	Spore germination. Current Opinion in Microbiology, 2003, 6, 550-556.	2.3	760
4	Mechanisms for the Prevention of Damage to DNA in Spores of Bacillus Species. Annual Review of Microbiology, 1995, 49, 29-54.	2.9	388
5	I will survive: DNA protection in bacterial spores. Trends in Microbiology, 2007, 15, 172-180.	3.5	379
6	Bacillus subtiliscontains multiple Fur homologues: identification of the iron uptake (Fur) and peroxide regulon (PerR) repressors. Molecular Microbiology, 1998, 29, 189-198.	1.2	376
7	Germination of Spores of Bacillus Species: What We Know and Do Not Know. Journal of Bacteriology, 2014, 196, 1297-1305.	1.0	376
8	Characterization of Spores of Bacillus subtilis Which Lack Dipicolinic Acid. Journal of Bacteriology, 2000, 182, 5505-5512.	1.0	357
9	Germination of spores of Bacillales and Clostridiales species: mechanisms and proteins involved. Trends in Microbiology, 2011, 19, 85-94.	3.5	319
10	Genetic Requirements for Induction of Germination of Spores of Bacillus subtilis by Ca 2+ -Dipicolinate. Journal of Bacteriology, 2001, 183, 4886-4893.	1.0	261
11	Role of Ger Proteins in Nutrient and Nonnutrient Triggering of Spore Germination in Bacillus subtilis. Journal of Bacteriology, 2000, 182, 2513-2519.	1.0	253
12	Mechanisms of killing of Bacillus subtilis spores by hypochlorite and chlorine dioxide. Journal of Applied Microbiology, 2003, 95, 54-67.	1.4	244
13	Small, Acid-Soluble Spore Proteins of Bacillus Species: Structure, Synthesis, Genetics, Function, and Degradation. Annual Review of Microbiology, 1988, 42, 319-338.	2.9	243
14	The Forespore Line of Gene Expression in Bacillus subtilis. Journal of Molecular Biology, 2006, 358, 16-37.	2.0	242
15	Spore Resistance Properties. Microbiology Spectrum, 2014, 2, .	1.2	242
16	Mechanisms which contribute to the longâ€term survival of spores of <i>Bacillus</i> species. Journal of Applied Bacteriology, 1994, 76, 49S-60S.	1.1	235
17	Role of DNA repair in Bacillus subtilis spore resistance. Journal of Bacteriology, 1996, 178, 3486-3495.	1.0	214
18	Muramic lactam in peptidoglycan of Bacillus subtilis spores is required for spore outgrowth but not for spore dehydration or heat resistance. Proceedings of the National Academy of Sciences of the United States of America, 1996, 93, 15405-15410.	3.3	209

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19	Bacterial spore structures and their protective role in biocide resistance. Journal of Applied Microbiology, 2012, 113, 485-498.	1.4	203
20	Response of Spores to Highâ€Pressure Processing. Comprehensive Reviews in Food Science and Food Safety, 2007, 6, 103-119.	5.9	193
21	Essential role of small, acid-soluble spore proteins in resistance of Bacillus subtilis spores to UV light. Journal of Bacteriology, 1986, 167, 174-178.	1.0	189
22	Role of Dipicolinic Acid in Resistance and Stability of Spores of Bacillus subtilis with or without DNA-Protective Î±/Î²-Type Small Acid-Soluble Proteins. Journal of Bacteriology, 2006, 188, 3740-3747.	1.0	186
23	Mechanisms of Induction of Germination of Bacillus subtilis Spores by High Pressure. Applied and Environmental Microbiology, 2002, 68, 3172-3175.	1.4	181
24	Mechanisms of killing spores of Bacillus subtilis by acid, alkali and ethanol. Journal of Applied Microbiology, 2002, 92, 362-375.	1.4	176
25	I will survive: protecting and repairing spore DNA. Journal of Bacteriology, 1992, 174, 2737-2741.	1.0	171
26	How Moist Heat Kills Spores of <i>Bacillus subtilis</i>. Journal of Bacteriology, 2007, 189, 8458-8466.	1.0	170
27	Germination of Spores of the Orders <i>Bacillales</i> and <i>Clostridiales</i>. Annual Review of Microbiology, 2017, 71, 459-477.	2.9	170
28	Lipids in the inner membrane of dormant spores of Bacillus species are largely immobile. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 7733-7738.	3.3	167
29	Biochemical studies of bacterial sporulation and germination. XXII. Energy metabolism in early stages of germination of Bacillus megaterium spores. Journal of Biological Chemistry, 1970, 245, 3637-44.	1.6	164
30	Resistance of spores ofBacillus species to ultraviolet light. Environmental and Molecular Mutagenesis, 2001, 38, 97-104.	0.9	160
31	Analysis of the properties of spores of Bacillus subtilis prepared at different temperatures. Journal of Applied Microbiology, 2002, 92, 1105-1115.	1.4	157
32	Regulation of expression of genes coding for small, acid-soluble proteins of Bacillus subtilis spores: studies using lacZ gene fusions. Journal of Bacteriology, 1988, 170, 239-244.	1.0	156
33	The solar UV environment and bacterial spore UV resistance: considerations for Earth-to-Mars transport by natural processes and human spaceflight. Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis, 2005, 571, 249-264.	0.4	155
34	Biochemical Studies of Bacterial Sporulation and Germination. Journal of Biological Chemistry, 1970, 245, 3637-3644.	1.6	154
35	Binding of small, acid-soluble spore proteins to DNA plays a significant role in the resistance of Bacillus subtilis spores to hydrogen peroxide. Applied and Environmental Microbiology, 1993, 59, 3418-3423.	1.4	154
36	Treatment with oxidizing agents damages the inner membrane of spores of Bacillus subtilis and sensitizes spores to subsequent stress. Journal of Applied Microbiology, 2004, 97, 838-852.	1.4	149

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37	<i>Clostridium perfringens</i> Spore Germination: Characterization of Germinants and Their Receptors. Journal of Bacteriology, 2008, 190, 1190-1201.	1.0	143
38	The physical state of water in bacterial spores. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 19334-19339.	3.3	141
39	A soluble protein is immobile in dormant spores of Bacillus subtilis but is mobile in germinated spores: Implications for spore dormancy. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 4209-4214.	3.3	140
40	Analysis of the peptidoglycan structure of Bacillus subtilis endospores. Journal of Bacteriology, 1996, 178, 6451-6458.	1.0	132
41	Localization of a Germinant Receptor Protein (GerBA) to the Inner Membrane of Bacillus subtilis Spores. Journal of Bacteriology, 2001, 183, 3982-3990.	1.0	131
42	Germination of spores of Bacillus subtilis with dodecylamine. Journal of Applied Microbiology, 2003, 95, 637-648.	1.4	131
43	Levels of Ca 2+ -Dipicolinic Acid in Individual Bacillus Spores Determined Using Microfluidic Raman Tweezers. Journal of Bacteriology, 2007, 189, 4681-4687.	1.0	130
44	Studies of the Commitment Step in the Germination of Spores of <i>Bacillus</i> Species. Journal of Bacteriology, 2010, 192, 3424-3433.	1.0	129
45	Prevention of DNA damage in spores and in vitro by small, acid-soluble proteins from Bacillus species. Journal of Bacteriology, 1993, 175, 1367-1374.	1.0	128
46	Cooperativity Between Different Nutrient Receptors in Germination of Spores of Bacillus subtilis and Reduction of This Cooperativity by Alterations in the GerB Receptor. Journal of Bacteriology, 2006, 188, 28-36.	1.0	126
47	Properties of Spores of Bacillus subtilis Blocked at an Intermediate Stage in Spore Germination. Journal of Bacteriology, 2001, 183, 4894-4899.	1.0	125
48	Isolation and Characterization of Superdormant Spores of <i>Bacillus</i> Species. Journal of Bacteriology, 2009, 191, 1787-1797.	1.0	125
49	Mechanisms of killing of spores of Bacillus subtilis by iodine, glutaraldehyde and nitrous acid. Journal of Applied Microbiology, 2000, 89, 330-338.	1.4	124
50	Characterization of bacterial spore germination using phase-contrast and fluorescence microscopy, Raman spectroscopy and optical tweezers. Nature Protocols, 2011, 6, 625-639.	5.5	123
51	The Bacillus subtilis spore coat provides "eat resistance" during phagocytic predation by the protozoan Tetrahymena thermophila. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 165-170.	3.3	121
52	Summer meeting 2013 - when the sleepers wake: the germination of spores of<i>Bacillus</i>species. Journal of Applied Microbiology, 2013, 115, 1251-1268.	1.4	121
53	Heat, hydrogen peroxide, and UV resistance of Bacillus subtilis spores with increased core water content and with or without major DNA-binding proteins. Applied and Environmental Microbiology, 1995, 61, 3633-3638.	1.4	121
54	Factors Influencing Germination of Bacillus subtilis Spores via Activation of Nutrient Receptors by High Pressure. Applied and Environmental Microbiology, 2005, 71, 5879-5887.	1.4	118

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55	Comparison of the Binuclear Metalloenzymes Diphosphoglycerate-Independent Phosphoglycerate Mutase and Alkaline Phosphatase:â€‰ Their Mechanism of Catalysis via a Phosphoserine Intermediate. Chemical Reviews, 2001, 101, 607-618.	23.0	115
56	Control of transcription of the Bacillus subtilis spoIIIG gene, which codes for the forespore-specific transcription factor sigma G. Journal of Bacteriology, 1991, 173, 2977-2984.	1.0	114
57	Levels of H+ and other monovalent cations in dormant and germinating spores of Bacillus megaterium. Journal of Bacteriology, 1981, 148, 20-29.	1.0	111
58	Effect of chromosome location of Bacillus subtilis forespore genes on their spo gene dependence and transcription by E sigma F: identification of features of good E sigma F-dependent promoters. Journal of Bacteriology, 1991, 173, 7867-7874.	1.0	109
59	Studies on the mechanism of killing of Bacillus subtilis spores by hydrogen peroxide. Journal of Applied Microbiology, 2002, 93, 316-325.	1.4	108
60	Effects of Overexpression of Nutrient Receptors on Germination of Spores of Bacillus subtilis. Journal of Bacteriology, 2003, 185, 2457-2464.	1.0	108
61	Analysis of factors that influence the sensitivity of spores of Bacillus subtilis to DNA damaging chemicals. Journal of Applied Microbiology, 2005, 98, 606-617.	1.4	104
62	Structure of a proteinâ€"DNA complex essential for DNA protection in spores of <i>Bacillus</i> species. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 2806-2811.	3.3	103
63	Cloning, nucleotide sequence, and regulation of the Bacillus subtilis gpr gene, which codes for the protease that initiates degradation of small, acid-soluble proteins during spore germination. Journal of Bacteriology, 1991, 173, 291-300.	1.0	101
64	The Products of the spoVA Operon Are Involved in Dipicolinic Acid Uptake into Developing Spores of Bacillus subtilis. Journal of Bacteriology, 2002, 184, 584-587.	1.0	98
65	Localization of the Cortex Lytic Enzyme CwlJ in Spores of Bacillus subtilis. Journal of Bacteriology, 2002, 184, 1219-1224.	1.0	98
66	Roles of Small, Acid-Soluble Spore Proteins and Core Water Content in Survival of <i>Bacillus subtilis</i> Spores Exposed to Environmental Solar UV Radiation. Applied and Environmental Microbiology, 2009, 75, 5202-5208.	1.4	98
67	Role of SpoVA Proteins in Release of Dipicolinic Acid during Germination of Bacillus subtilis Spores Triggered by Dodecylamine or Lysozyme. Journal of Bacteriology, 2007, 189, 1565-1572.	1.0	97
68	Measurements of the pH within dormant and germinated bacterial spores.. Proceedings of the National Academy of Sciences of the United States of America, 1980, 77, 2474-2476.	3.3	96
69	Mechanisms of Bacillus subtilis spore resistance to and killing by aqueous ozone. Journal of Applied Microbiology, 2004, 96, 1133-1142.	1.4	96
70	Small, acid-soluble proteins bound to DNA protect Bacillus subtilis spores from killing by dry heat. Applied and Environmental Microbiology, 1995, 61, 2787-2790.	1.4	95
71	Superdormant Spores of <i>Bacillus</i> Species Have Elevated Wet-Heat Resistance and Temperature Requirements for Heat Activation. Journal of Bacteriology, 2009, 191, 5584-5591.	1.0	94
72	Ultraviolet irradiation of DNA complexed with alpha/beta-type small, acid-soluble proteins from spores of Bacillus or Clostridium species makes spore photoproduct but not thymine dimers.. Proceedings of the National Academy of Sciences of the United States of America, 1991, 88, 8288-8292.	3.3	92

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73	Germination proteins in the inner membrane of dormant <i>Bacillus subtilis</i> spores colocalize in a discrete cluster. Molecular Microbiology, 2011, 81, 1061-1077.	1.2	92
74	Spore Germination and Outgrowth. , 0, , 537-548.		91
75	Small, Acid-Soluble Proteins as Biomarkers in Mass Spectrometry Analysis of Bacillu s Spores. Applied and Environmental Microbiology, 2003, 69, 1100-1107.	1.4	90
76	Levels of Small Molecules and Enzymes in the Mother Cell Compartment and the Forespore of Sporulating Bacillus megaterium. Journal of Bacteriology, 1977, 130, 1130-1138.	1.0	90
77	Identification of a New Gene Essential for Germinationof Bacillus subtilis Spores withCa 2+ -Dipicolinate. Journal of Bacteriology, 2003, 185, 2315-2329.	1.0	88
78	SleC Is Essential for Cortex Peptidoglycan Hydrolysis during Germination of Spores of the Pathogenic Bacterium <i>Clostridium perfringens</i>. Journal of Bacteriology, 2009, 191, 2711-2720.	1.0	88
79	The Effects of Heat Activation on Bacillus Spore Germination, with Nutrients or under High Pressure, with or without Various Germination Proteins. Applied and Environmental Microbiology, 2015, 81, 2927-2938.	1.4	87
80	Dramatic increase in negative superhelicity of plasmid DNA in the forespore compartment of sporulating cells of Bacillus subtilis. Journal of Bacteriology, 1990, 172, 7-14.	1.0	85
81	Characterization of Spores of <i>Bacillus subtilis</i> That Lack Most Coat Layers. Journal of Bacteriology, 2008, 190, 6741-6748.	1.0	85
82	The Bacillus subtilis dacB gene, encoding penicillin-binding protein 5*, is part of a three-gene operon required for proper spore cortex synthesis and spore core dehydration. Journal of Bacteriology, 1995, 177, 4721-4729.	1.0	84
83	Analysis of factors influencing the rate of germination of spores of Bacillus subtilis by very high pressure. Journal of Applied Microbiology, 2007, 102, 65-76.	1.4	84
84	Factors Affecting Variability in Time between Addition of Nutrient Germinants and Rapid Dipicolinic Acid Release during Germination of Spores of <i>Bacillus</i> Species. Journal of Bacteriology, 2010, 192, 3608-3619.	1.0	84
85	Promoter specificity of sigma G-containing RNA polymerase from sporulating cells of Bacillus subtilis: identification of a group of forespore-specific promoters. Journal of Bacteriology, 1989, 171, 2708-2718.	1.0	83
86	DNA in dormant spores of Bacillus species is in an A-like conformation. Molecular Microbiology, 1992, 6, 563-567.	1.2	83
87	Isolation and Characterization of Mutations in <i>Bacillus subtilis</i> That Allow Spore Germination in the Novel Germinant <scp>d</scp> -Alanine. Journal of Bacteriology, 1999, 181, 3341-3350.	1.0	83
88	Comparison of the properties of Bacillus subtilis spores made in liquid or on agar plates. Journal of Applied Microbiology, 2007, 103, 691-699.	1.4	82
89	Role of Dipicolinic Acid in the Germination, Stability, and Viability of Spores of <i>Bacillus subtilis</i>. Journal of Bacteriology, 2008, 190, 4798-4807.	1.0	82
90	Protein metabolism during germination of Bacillus megaterium spores. I. Protein synthesis and amino acid metabolism. Journal of Biological Chemistry, 1975, 250, 623-30.	1.6	82

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91	Roles of Low-Molecular-Weight Penicillin-Binding Proteins in <i>Bacillus subtilis</i> Spore Peptidoglycan Synthesis and Spore Properties. Journal of Bacteriology, 1999, 181, 126-132.	1.0	81
92	Roles of the Major, Small, Acid-Soluble Spore Proteins and Spore-Specific and Universal DNA Repair Mechanisms in Resistance of <i>Bacillus subtilis</i> Spores to Ionizing Radiation from X Rays and High-Energy Charged-Particle Bombardment. Journal of Bacteriology, 2008, 190, 1134-1140.	1.0	81
93	Characterization of yhcN, a new forespore-specific gene of Bacillus subtilis. Gene, 1998, 212, 179-188.	1.0	79
94	Mechanism of killing of spores of<i>Bacillus cereus</i>and<i>Bacillus megaterium</i>by wet heat. Letters in Applied Microbiology, 2010, 50, 507-514.	1.0	79
95	Dipicolinic Acid Greatly Enhances Production of Spore Photoproduct in Bacterial Spores upon UV Irradiation. Applied and Environmental Microbiology, 1993, 59, 640-643.	1.4	78
96	Biochemical studies of bacterial sporulation and germination. 23. Nucleotide metabolism during spore germination. Journal of Biological Chemistry, 1970, 245, 3645-52.	1.6	78
97	The regulation of transcription of the gerA spore germination operon of Bacillus subtilis. Molecular Microbiology, 1990, 4, 275-282.	1.2	77
98	Characterization of <i>Clostridium perfringens</i> Spores That Lack SpoVA Proteins and Dipicolinic Acid. Journal of Bacteriology, 2008, 190, 4648-4659.	1.0	77
99	Properties of Bacillus megaterium and Bacillus subtilis mutants which lack the protease that degrades small, acid-soluble proteins during spore germination. Journal of Bacteriology, 1992, 174, 807-814.	1.0	75
100	The preparation, germination properties and stability of superdormant spores of<i>Bacillus cereus</i>. Journal of Applied Microbiology, 2010, 108, 582-590.	1.4	75
101	Role of GerD in Germination of Bacillus subtilis Spores. Journal of Bacteriology, 2007, 189, 1090-1098.	1.0	74
102	Protein metabolism during germination of Bacillus megaterium spores. I. Protein synthesis and amino acid metabolism. Journal of Biological Chemistry, 1975, 250, 623-630.	1.6	74
103	Characterization of Wet-Heat Inactivation of Single Spores of <i>Bacillus</i> Species by Dual-Trap Raman Spectroscopy and Elastic Light Scattering. Applied and Environmental Microbiology, 2010, 76, 1796-1805.	1.4	73
104	Effects of Mn and Fe Levels on <i>Bacillus subtilis</i> Spore Resistance and Effects of Mn ²⁺ , Other Divalent Cations, Orthophosphate, and Dipicolinic Acid on Protein Resistance to Ionizing Radiation. Applied and Environmental Microbiology, 2011, 77, 32-40.	1.4	73
105	Characterization of Bacterial Spore Germination Using Integrated Phase Contrast Microscopy, Raman Spectroscopy, and Optical Tweezers. Analytical Chemistry, 2010, 82, 3840-3847.	3.2	72
106	Analysis of the action of compounds that inhibit the germination of spores of Bacillus species. Journal of Applied Microbiology, 2004, 96, 725-741.	1.4	71
107	Characterization of the germination of<i>Bacillus megaterium</i>spores lacking enzymes that degrade the spore cortex. Journal of Applied Microbiology, 2009, 107, 318-328.	1.4	71
108	Elastic and Inelastic Light Scattering from Single Bacterial Spores in an Optical Trap Allows the Monitoring of Spore Germination Dynamics. Analytical Chemistry, 2009, 81, 4035-4042.	3.2	71

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109	Localization of SpoVAD to the Inner Membrane of Spores of Bacillus subtilis. Journal of Bacteriology, 2005, 187, 5677-5682.	1.0	70
110	Biochemical Studies of Bacterial Sporulation and Germination. Journal of Biological Chemistry, 1970, 245, 3645-3652.	1.6	70
111	Cloning and nucleotide sequencing of genes for three small, acid-soluble proteins from Bacillus subtilis spores. Journal of Bacteriology, 1986, 166, 417-425.	1.0	69
112	Alkyl hydroperoxide reductase, catalase, MrgA, and superoxide dismutase are not involved in resistance of Bacillus subtilis spores to heat or oxidizing agents. Journal of Bacteriology, 1997, 179, 7420-7425.	1.0	69
113	Role of a SpoVA Protein in Dipicolinic Acid Uptake into Developing Spores of Bacillus subtilis. Journal of Bacteriology, 2012, 194, 1875-1884.	1.0	69
114	Effects of Sporulation Conditions on the Germination and Germination Protein Levels of Bacillus subtilis Spores. Applied and Environmental Microbiology, 2012, 78, 2689-2697.	1.4	69
115	Interaction between DNA and alpha/beta-type small, acid-soluble spore proteins: a new class of DNA-binding protein. Journal of Bacteriology, 1992, 174, 2312-2322.	1.0	68
116	Bacillus spore germination: Knowns, unknowns and what we need to learn. Cellular Signalling, 2020, 74, 109729.	1.7	68
117	Investigating the role of small, acid-soluble spore proteins (SASPs) in the resistance of Clostridium perfringens spores to heat. BMC Microbiology, 2006, 6, 50.	1.3	67
118	Resistance of Bacillus subtilis Spore DNA to Lethal Ionizing Radiation Damage Relies Primarily on Spore Core Components and DNA Repair, with Minor Effects of Oxygen Radical Detoxification. Applied and Environmental Microbiology, 2014, 80, 104-109.	1.4	67
119	Formaldehyde kills spores of Bacillus subtilis by DNA damage and small, acid-soluble spore proteins of the alphaalphaalphaalphaalphaalphaalpha/betabetabetabetabetabetabeta-type protect spores against this DNA damage. Journal of Applied Microbiology, 1999, 87, 8-14.	1.4	66
120	Antisense-RNA-Mediated Decreased Synthesis of Small, Acid-Soluble Spore Proteins Leads to Decreased Resistance of Clostridium perfringens Spores to Moist Heat and UV Radiation. Applied and Environmental Microbiology, 2007, 73, 2048-2053.	1.4	66
121	Thymine-containing dimers as well as spore photoproducts are found in ultraviolet-irradiated Bacillus subtilis spores that lack small acid-soluble proteins.. Proceedings of the National Academy of Sciences of the United States of America, 1987, 84, 421-423.	3.3	65
122	Effects of Major Spore-Specific DNA Binding Proteins on Bacillus subtilis Sporulation and Spore Properties. Journal of Bacteriology, 2000, 182, 6906-6912.	1.0	64
123	The protease CspB is essential for initiation of cortex hydrolysis and dipicolinic acid (DPA) release during germination of spores of Clostridium perfringens type A food poisoning isolates. Microbiology (United Kingdom), 2009, 155, 3464-3472.	0.7	64
124	Analysis of transcriptional control of the gerD spore germination gene of Bacillus subtilis 168. Journal of Bacteriology, 1991, 173, 4646-4652.	1.0	63
125	Photosensitization of DNA by dipicolinic acid, a major component of spores of Bacillus species. Photochemical and Photobiological Sciences, 2005, 4, 591.	1.6	63
126	Binding of DNA in vitro by a small, acid-soluble spore protein from Bacillus subtilis and the effect of this binding on DNA topology. Journal of Bacteriology, 1990, 172, 6900-6906.	1.0	61

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127	Purification and properties of a specific proteolytic enzyme present in spores of Bacillus magaterium. Journal of Biological Chemistry, 1976, 251, 7853-62.	1.6	61
128	The internal pH of the forespore compartment of Bacillus megaterium decreases by about 1 pH unit during sporulation. Journal of Bacteriology, 1994, 176, 2252-2258.	1.0	60
129	Characterization of the Dynamic Germination of Individual Clostridium difficile Spores Using Raman Spectroscopy and Differential Interference Contrast Microscopy. Journal of Bacteriology, 2015, 197, 2361-2373.	1.0	60
130	Maturation of Released Spores Is Necessary for Acquisition of Full Spore Heat Resistance during Bacillus subtilis Sporulation. Applied and Environmental Microbiology, 2011, 77, 6746-6754.	1.4	59
131	Mechanism of <i>Bacillus subtilis</i> spore inactivation by and resistance to supercritical CO₂ plus peracetic acid. Journal of Applied Microbiology, 2016, 120, 57-69.	1.4	59
132	Analysis of the killing of spores of Bacillus subtilis by a new disinfectant, SteriloxR. Journal of Applied Microbiology, 2001, 91, 1051-1058.	1.4	58
133	High Salinity Alters the Germination Behavior of Bacillus subtilis Spores with Nutrient and Nonnutrient Germinants. Applied and Environmental Microbiology, 2014, 80, 1314-1321.	1.4	58
134	Synthesis of a Bacillus subtilis small, acid-soluble spore protein in Escherichia coli causes cell DNA to assume some characteristics of spore DNA. Journal of Bacteriology, 1991, 173, 1642-1653.	1.0	57
135	Transglutaminase-Mediated Cross-Linking of GerQ in the Coats of Bacillus subtilis Spores. Journal of Bacteriology, 2004, 186, 5567-5575.	1.0	57
136	Experimental studies addressing the longevity of Bacillus subtilis spores â€“ The first data from a 500-year experiment. PLoS ONE, 2018, 13, e0208425.	1.1	56
137	Characterization of single heat-activated Bacillus spores using laser tweezers â€"Raman spectroscopy. Optics Express, 2009, 17, 16480.	1.7	54
138	Germination of spores of Clostridium difficile strains, including isolates from a hospital outbreak of Clostridium difficile-associated disease (CDAD). Microbiology (United Kingdom), 2008, 154, 2241-2250.	0.7	53
139	Monitoring Rates and Heterogeneity of High-Pressure Germination of Bacillus Spores by Phase-Contrast Microscopy of Individual Spores. Applied and Environmental Microbiology, 2014, 80, 345-353.	1.4	52
140	Observations on research with spores of Bacillales and Clostridiales species. Journal of Applied Microbiology, 2019, 126, 348-358.	1.4	52
141	Analysis of Nucleoid Morphology during Germination and Outgrowth of Spores of Bacillus Species. Journal of Bacteriology, 2000, 182, 5556-5562.	1.0	51
142	DNA Damage Kills Bacterial Spores and Cells Exposed to 222-Nanometer UV Radiation. Applied and Environmental Microbiology, 2020, 86, .	1.4	51
143	Analysis of the germination of spores ofBacillus subtiliswith temperature sensitivespomutations in thespoVAoperon. FEMS Microbiology Letters, 2004, 239, 71-77.	0.7	50
144	Effects of modification of membrane lipid composition on<i>Bacillus subtilis</i>sporulation and spore properties. Journal of Applied Microbiology, 2009, 106, 2064-2078.	1.4	50

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145	Levels of Germination Proteins in Dormant and Superdormant Spores of Bacillus subtilis. Journal of Bacteriology, 2012, 194, 2221-2227.	1.0	50
146	Photochemistry and Photobiology of the Spore Photoproduct: A 50â€Year Journey. Photochemistry and Photobiology, 2015, 91, 1263-1290.	1.3	50
147	Architecture and Assembly of the Bacillus subtilis Spore Coat. PLoS ONE, 2014, 9, e108560.	1.1	50
148	Roles of DacB and Spm Proteins in <i>Clostridium perfringens</i> Spore Resistance to Moist Heat, Chemicals, and UV Radiation. Applied and Environmental Microbiology, 2008, 74, 3730-3738.	1.4	49
149	Analysis of Metabolism in Dormant Spores of Bacillus Species by ³¹ P Nuclear Magnetic Resonance Analysis of Low-Molecular-Weight Compounds. Journal of Bacteriology, 2015, 197, 992-1001.	1.0	49
150	Killing of spores of Bacillus subtilis by peroxynitrite appears to be caused by membrane damage. Microbiology (United Kingdom), 2002, 148, 307-314.	0.7	49
151	Effects of the Binding of Î±/Î²-type Small, Acid-soluble Spore Proteins on the Photochemistry of DNA in Spores of Bacillus subtilis and In VitroÂ¶. Photochemistry and Photobiology, 2005, 81, 163.	1.3	49
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