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List of Publications by Year in descending order

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125 papers 8,423 citations

³⁸⁷⁴² 50 h-index

86 g-index

132 all docs

132 docs citations

times ranked

132

7498 citing authors

#	Article	IF	CITATIONS
1	A Micrarchaeon Isolate Is Covered by a Proteinaceous S-Layer. Applied and Environmental Microbiology, 2022, 88, AEM0155321.	3.1	4
2	An archaellum filament composed of two alternating subunits. Nature Communications, 2022, 13, 710.	12.8	18
3	The importance of biofilm formation for cultivation of a Micrarchaeon and its interactions with its Thermoplasmatales host. Nature Communications, 2022, 13, 1735.	12.8	12
4	Three-dimensional SEM, TEM, and STEM for analysis of large-scale biological systems. Histochemistry and Cell Biology, 2022, 158, 203-211.	1.7	12
5	On-section correlative light and electron microscopy of large cellular volumes using STEM tomography. Methods in Cell Biology, 2021, 162, 171-203.	1.1	4
6	Functional compartmentalization and metabolic separation in a prokaryotic cell. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118 , .	7.1	15
7	Questioning the radiation limits of life: Ignicoccus hospitalis between replication and VBNC. Archives of Microbiology, 2021, 203, 1299-1308.	2.2	6
8	Enhanced Resorption of Liposomal Packed Vitamin C Monitored by Ultrasound. Journal of Clinical Medicine, 2020, 9, 1616.	2.4	9
9	Dual-axis STEM tomography at 200ÂkV: Setup, performance, limitations. Journal of Structural Biology, 2020, 211, 107551.	2.8	11
10	2D and 3D immunogold localization on (epoxy) ultrathin sections with and without osmium tetroxide. Microscopy Research and Technique, 2020, 83, 691-705.	2.2	11
11	Next Generation DNA-Seq and Differential RNA-Seq Allow Re-annotation of the Pyrococcus furiosus DSM 3638 Genome and Provide Insights Into Archaeal Antisense Transcription. Frontiers in Microbiology, 2019, 10, 1603.	3 . 5	15
12	Subcellular localization of the chemotherapeutic agent doxorubicin in renal epithelial cells and in tumor cells using correlative light and electron microscopy. Clinical Hemorheology and Microcirculation, 2019, 73, 157-167.	1.7	6
13	One-megadalton metalloenzyme complex in <i>Geobacter metallireducens</i> involved in benzene ring reduction beyond the biological redox window. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 2259-2264.	7.1	32
14	Electron microscopy of Drosophila garland cell nephrocytes: Optimal preparation, immunostaining and STEM tomography. Journal of Cellular Biochemistry, 2018, 119, 8011-8021.	2.6	10
15	Arginine-rich cell-penetrating peptides induce membrane multilamellarity and subsequently enter via formation of a fusion pore. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 11923-11928.	7.1	168
16	Distinct functions of Crumbs regulating slit diaphragms and endocytosis in Drosophila nephrocytes. Cellular and Molecular Life Sciences, 2017, 74, 4573-4586.	5 . 4	37
17	Influence of osmotic stress on desiccation and irradiation tolerance of (hyper)-thermophilic microorganisms. Archives of Microbiology, 2017, 199, 17-28.	2.2	34
18	A Complex Endomembrane System in the Archaeon Ignicoccus hospitalis Tapped by Nanoarchaeum equitans. Frontiers in Microbiology, 2017, 8, 1072.	3 . 5	52

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19	Rectinema cohabitans gen. nov., sp. nov., a rod-shaped spirochaete isolated from an anaerobic naphthalene-degrading enrichment culture. International Journal of Systematic and Evolutionary Microbiology, 2017, 67, 1288-1295.	1.7	35
20	Structure and in situ organisation of the Pyrococcus furiosus archaellum machinery. ELife, 2017, 6, .	6.0	83
21	<i>In meso</i> crystal structure of a novel membraneâ€associated octaheme cytochrome <i>c</i> from the Crenarchaeon <i>lgnicoccus hospitalis</i> FEBS Journal, 2016, 283, 3807-3820.	4.7	10
22	Eisosomes promote the ability of Sur7 to regulate plasma membrane organization in <i>Candida albicans</i> . Molecular Biology of the Cell, 2016, 27, 1663-1675.	2.1	32
23	Archaeal flagellin combines a bacterial type IV pilin domain with an Ig-like domain. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 10352-10357.	7.1	49
24	Advanced electron microscopic techniques provide a deeper insight into the peculiar features of podocytes. American Journal of Physiology - Renal Physiology, 2015, 309, F1082-F1089.	2.7	23
25	Cytochromes c in Archaea: distribution, maturation, cell architecture, and the special case of Ignicoccus hospitalis. Frontiers in Microbiology, 2015, 6, 439.	3.5	70
26	Isolation of methanotrophic bacteria from termite gut. Microbiological Research, 2015, 179, 29-37.	5.3	20
27	Life on the edge: functional genomic response of <i>lgnicoccus hospitalis</i> to the presence of <i>Nanoarchaeum equitans</i> ISME Journal, 2015, 9, 101-114.	9.8	44
28	Three multihaem cytochromes c from the hyperthermophilic archaeon Ignicoccus hospitalis: purification, properties and localization. Microbiology (United Kingdom), 2014, 160, 1278-1289.	1.8	6
29	Pyrococcus furiosus flagella: biochemical and transcriptional analyses identify the newly detected flaBO gene to encode the major flagellin. Frontiers in Microbiology, 2014, 5, 695.	3.5	34
30	Grappling archaea: ultrastructural analyses of an uncultivated, cold-loving archaeon, and its biofilm. Frontiers in Microbiology, 2014, 5, 397.	3.5	26
31	The Iho670 Fibers of Ignicoccus hospitalis Are Anchored in the Cell by a Spherical Structure Located beneath the Inner Membrane. Journal of Bacteriology, 2014, 196, 3807-3815.	2.2	10
32	A New Addition to the Cell Plan of Anammox Bacteria: "Candidatus Kuenenia stuttgartiensis" Has a Protein Surface Layer as the Outermost Layer of the Cell. Journal of Bacteriology, 2014, 196, 80-89.	2.2	50
33	The Impact of Polyelectrolyte Structure on the Shape of Nanoassemblies with Cationic Peptides. Journal of Pharmaceutical Sciences, 2013, 102, 2599-2607.	3.3	10
34	Rrp5p, Noc1p and Noc2p form a protein module which is part of early large ribosomal subunit precursors in S. cerevisiae. Nucleic Acids Research, 2013, 41, 1191-1210.	14.5	61
35	Structural analysis suggests that renin is released by compound exocytosis. Kidney International, 2013, 83, 233-241.	5.2	12
36	Ultrastructure of the Denitrifying Methanotroph "Candidatus Methylomirabilis oxyfera,―a Novel Polygon-Shaped Bacterium. Journal of Bacteriology, 2012, 194, 284-291.	2.2	56

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37	A library of strictly linear poly(ethylene glycol)–poly(ethylene imine) diblock copolymers to perform structure–function relationship of non-viral gene carriers. Journal of Controlled Release, 2012, 162, 446-455.	9.9	40
38	Archaeal Tetrathionate Hydrolase Goes Viral: Secretion of a Sulfur Metabolism Enzyme in the Form of Virus-Like Particles. Applied and Environmental Microbiology, 2012, 78, 5463-5465.	3.1	10
39	Filaments from Ignicoccus hospitalis Show Diversity of Packing in Proteins Containing N-Terminal Type IV Pilin Helices. Journal of Molecular Biology, 2012, 422, 274-281.	4.2	40
40	Layerâ€byâ€Layer Coated Gold Nanoparticles: Sizeâ€Dependent Delivery of DNA into Cells. Small, 2012, 8, 3847-3856.	10.0	72
41	AMP-Forming Acetyl Coenzyme A Synthetase in the Outermost Membrane of the Hyperthermophilic Crenarchaeon Ignicoccus hospitalis. Journal of Bacteriology, 2012, 194, 1572-1581.	2.2	26
42	The unusual cell biology of the hyperthermophilic Crenarchaeon Ignicoccus hospitalis. Antonie Van Leeuwenhoek, 2012, 102, 203-219.	1.7	39
43	Growth Behavior and Kinetics of Selfâ€Assembled Silica–Carbonate Biomorphs. Chemistry - A European Journal, 2012, 18, 2272-2282.	3.3	40
44	Comparative Investigations on In Vitro Serum Stability of Polymeric Micelle Formulations. Pharmaceutical Research, 2012, 29, 448-459.	3.5	59
45	Hydrotrope-Induced Inversion of Salt Effects on the Cloud Point of an Extended Surfactant. Langmuir, 2011, 27, 4403-4411.	3.5	47
46	Survival of thermophilic and hyperthermophilic microorganisms after exposure to UV-C, ionizing radiation and desiccation. Archives of Microbiology, 2011, 193, 797-809.	2.2	45
47	Analysis of the surface proteins of Acidithiobacillus ferrooxidans strain SP5/1 and the new, pyrite-oxidizing Acidithiobacillus isolate HV2/2, and their possible involvement in pyrite oxidation. Archives of Microbiology, 2011, 193, 867-882.	2.2	21
48	RÃtselhafte Lebensgemeinschaft im Reich der Archaea. Die Feuerkugel und ihr Urzwerg. Biologie in Unserer Zeit, 2011, 41, 102-109.	0.2	0
49	The Mode of Cell Wall Growth in Selected Archaea Is Similar to the General Mode of Cell Wall Growth in Bacteria as Revealed by Fluorescent Dye Analysis. Applied and Environmental Microbiology, 2011, 77, 1556-1562.	3.1	39
50	Methanocaldococcus villosus sp. nov., a heavily flagellated archaeon that adheres to surfaces and forms cell–cell contacts. International Journal of Systematic and Evolutionary Microbiology, 2011, 61, 1239-1245.	1.7	87
51	Proteomic Characterization of Cellular and Molecular Processes that Enable the Nanoarchaeum equitans-Ignicoccus hospitalis Relationship. PLoS ONE, 2011, 6, e22942.	2.5	65
52	Complete genome sequence of Thermosphaera aggregans type strain (M11TLT). Standards in Genomic Sciences, 2010, 2, 245-259.	1.5	14
53	Determination of the Diversity of <i>Rhodopirellula</i> Isolates from European Seas by Multilocus Sequence Analysis. Applied and Environmental Microbiology, 2010, 76, 776-785.	3.1	32
54	Appendage-Mediated Surface Adherence of <i>Sulfolobus solfataricus</i> . Journal of Bacteriology, 2010, 192, 104-110.	2.2	84

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55	Energized outer membrane and spatial separation of metabolic processes in the hyperthermophilic Archaeon <i>Ignicoccus hospitalis</i> Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 3152-3156.	7.1	87
56	G protein-coupled receptors function as logic gates for nanoparticle binding and cell uptake. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 10667-10672.	7.1	51
57	C Terminus of Nce102 Determines the Structure and Function of Microdomains in the Saccharomyces cerevisiae Plasma Membrane. Eukaryotic Cell, 2010, 9, 1184-1192.	3.4	41
58	Cell Envelopes of Crenarchaeota and Nanoarchaeota. , 2010, , 271-291.		10
59	Stabilization of Amorphous Calcium Carbonate in Inorganic Silica-Rich Environments. Journal of the American Chemical Society, 2010, 132, 17859-17866.	13.7	130
60	Analysis of the Ultrastructure of Archaea by Electron Microscopy. Methods in Cell Biology, 2010, 96, 47-69.	1.1	46
61	The interaction of <i>Nanoarchaeum equitans</i> with <i>Ignicoccus hospitalis</i> proteins in the contact site between two cells. Biochemical Society Transactions, 2009, 37, 127-132.	3.4	22
62	The Iho670 Fibers of <i>Ignicoccus hospitalis</i> : a New Type of Archaeal Cell Surface Appendage. Journal of Bacteriology, 2009, 191, 6465-6468.	2.2	35
63	Tolerance of thermophilic and hyperthermophilic microorganisms to desiccation. Extremophiles, 2009, 13, 521-531.	2.3	51
64	<i>Acidianus</i> , <i>Sulfolobus</i> and <i>Metallosphaera</i> surface layers: structure, composition and gene expression. Molecular Microbiology, 2009, 73, 58-72.	2.5	81
65	Another way to divide: the case of anammox bacteria. Molecular Microbiology, 2009, 73, 978-981.	2.5	2
66	Ultrastructural Insights in the Interface between Generated Renal Tubules and a Polyester Interstitium. Langmuir, 2009, 25, 4621-4627.	3.5	19
67	Furrow-like invaginations of the yeast plasma membrane correspond to membrane compartment of Can1. Journal of Cell Science, 2009, 122, 2887-2894.	2.0	145
68	Layer-by-Layer Assembled Gold Nanoparticles for siRNA Delivery. Nano Letters, 2009, 9, 2059-2064.	9.1	404
69	An archaeal bi-species biofilm formed by Pyrococcus furiosus and Methanopyrus kandleri. Archives of Microbiology, 2008, 190, 371-377.	2.2	64
70	Insight into the proteome of the hyperthermophilic Crenarchaeon Ignicoccus hospitalis: the major cytosolic and membrane proteins. Archives of Microbiology, 2008, 190, 379-394.	2.2	19
71	Ignicoccus hospitalis and Nanoarchaeum equitans: ultrastructure, cell–cell interaction, and 3D reconstruction from serial sections of freeze-substituted cells and by electron cryotomography. Archives of Microbiology, 2008, 190, 395-408.	2.2	73
72	Etching of $\{111\}$ and $\{210\}$ synthetic pyrite surfaces by two archaeal strains, Metallosphaera sedula and Sulfolobus metallicus. Hydrometallurgy, 2008, 94, 116-120.	4.3	10

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73	The Mth60 fimbriae of <i>Methanothermobacter thermoautotrophicus</i> are functional adhesins. Environmental Microbiology, 2008, 10, 2785-2795.	3.8	56
74	A genomic analysis of the archaeal system Ignicoccus hospitalis-Nanoarchaeum equitans. Genome Biology, 2008, 9, R158.	8.8	104
75	Alternative flagellar filament types in the haloarchaeon Haloarcula marismortui. Canadian Journal of Microbiology, 2008, 54, 835-844.	1.7	29
76	<i>Nanoarchaeum equitans</i> and <i>Ignicoccus hospitalis</i> New Insights into a Unique, Intimate Association of Two Archaea. Journal of Bacteriology, 2008, 190, 1743-1750.	2.2	111
77	Structure of the Receptor-Binding Protein of Bacteriophage Det7: a Podoviral Tail Spike in a Myovirus. Journal of Virology, 2008, 82, 2265-2273.	3.4	98
78	Treponema isoptericolens sp. nov., a novel spirochaete from the hindgut of the termite Incisitermes tabogae. International Journal of Systematic and Evolutionary Microbiology, 2008, 58, 1079-1083.	1.7	48
79	Stygiolobus Rod-Shaped Virus and the Interplay of Crenarchaeal Rudiviruses with the CRISPR Antiviral System. Journal of Bacteriology, 2008, 190, 6837-6845.	2.2	58
80	Structure of the <i>Acidianus</i> Filamentous Virus 3 and Comparative Genomics of Related Archaeal Lipothrixviruses. Journal of Virology, 2008, 82, 371-381.	3.4	49
81	Pyrite Surface Alteration of Synthetic Single Crystals as Effect of Microbial Activity and Crystallographic Orientation. Advanced Materials Research, 2007, 20-21, 350-353.	0.3	4
82	Ignicoccus hospitalis sp. nov., the host of â€~Nanoarchaeum equitans'. International Journal of Systematic and Evolutionary Microbiology, 2007, 57, 803-808.	1.7	91
83	The podocyte-specific inactivation of Lmx1b, Ldb1 and E2a yields new insight into a transcriptional network in podocytes. Developmental Biology, 2007, 304, 701-712.	2.0	60
84	The dominating outer membrane protein of the hyperthermophilic Archaeum Ignicoccus hospitalis: a novel pore-forming complex. Molecular Microbiology, 2007, 63, 166-176.	2.5	39
85	Structural and Genomic Properties of the Hyperthermophilic Archaeal Virus ATV with an Extracellular Stage of the Reproductive Cycle. Journal of Molecular Biology, 2006, 359, 1203-1216.	4.2	110
86	MotD of Sinorhizobium meliloti and Related \hat{l} ±-Proteobacteria Is the Flagellar-Hook-Length Regulator and Therefore Reassigned as FliK. Journal of Bacteriology, 2006, 188, 2144-2153.	2.2	24
87	Flagella of Pyrococcus furiosus: Multifunctional Organelles, Made for Swimming, Adhesion to Various Surfaces, and Cell-Cell Contacts. Journal of Bacteriology, 2006, 188, 6915-6923.	2.2	120
88	Nanoarchaeota., 2006,, 274-280.		5
89	The unique structure of archaeal â€ [™] hami', highly complex cell appendages with nano-grappling hooks. Molecular Microbiology, 2005, 56, 361-370.	2.5	97
90	Independent virus development outside a host. Nature, 2005, 436, 1101-1102.	27.8	169

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91	A novel rudivirus, ARV1, of the hyperthermophilic archaeal genus Acidianus. Virology, 2005, 336, 83-92.	2.4	61
92	Regulation of type 1 fimbriae synthesis and biofilm formation by the transcriptional regulator LrhA of Escherichia coli. Microbiology (United Kingdom), 2005, 151, 3287-3298.	1.8	100
93	Viral Diversity in Hot Springs of Pozzuoli, Italy, and Characterization of a Unique Archaeal Virus, Acidianus Bottle-Shaped Virus, from a New Family, the Ampullaviridae. Journal of Virology, 2005, 79, 9904-9911.	3.4	101
94	Structure and Genome Organization of AFV2, a Novel Archaeal Lipothrixvirus with Unusual Terminal and Core Structures. Journal of Bacteriology, 2005, 187, 3855-3858.	2.2	51
95	Sed1p and Srl1p are required to compensate for cell wall instability in Saccharomyces cerevisiae mutants defective in multiple GPI-anchored mannoproteins. Molecular Microbiology, 2004, 52, 1413-1425.	2.5	49
96	Morphology and genome organization of the virus PSV of the hyperthermophilic archaeal genera Pyrobaculum and Thermoproteus: a novel virus family, the Globuloviridae. Virology, 2004, 323, 233-242.	2.4	112
97	The sulphur oxygenase reductase from Acidianus ambivalens is a multimeric protein containing a low-potential mononuclear non-haem iron centre. Biochemical Journal, 2004, 381, 137-146.	3.7	57
98	The outer membrane of the hyperthermophilic archaeon Ignicoccus: dynamics, ultrastructure and composition. Biochemical Society Transactions, 2004, 32, 199-203.	3.4	43
99	In situ growth of the novel SM1 euryarchaeon from a string-of-pearls-like microbial community in its cold biotope, its physical separation and insights into its structure and physiology. Archives of Microbiology, 2003, 180, 211-217.	2.2	53
100	Pyrodictium cannulae enter the periplasmic space but do not enter the cytoplasm, as revealed by cryo-electron tomography. Journal of Structural Biology, 2003, 141, 34-42.	2.8	95
101	The phylum Nanoarchaeota: Present knowledge and future perspectives of a unique form of life. Research in Microbiology, 2003, 154, 165-171.	2.1	88
102	Unusual Cell Surface Structures of Two Unusual Hyperthermophilic Archaea †Living Together' in Co-Culture. Microscopy and Microanalysis, 2003, 9, 382-383.	0.4	0
103	The ultrastructure of <i>Ignicoccus </i> : Evidence for a novel outer membrane and for intracellular vesicle budding in an archaeon. Archaea, 2002, 1, 9-18.	2.3	126
104	Remarkable morphological diversity of viruses and virus-like particles in hot terrestrial environments. Archives of Virology, 2002, 147, 2419-2429.	2.1	129
105	A new phylum of Archaea represented by a nanosized hyperthermophilic symbiont. Nature, 2002, 417, 63-67.	27.8	731
106	Thermovibrio ruber gen. nov., sp. nov., an extremely thermophilic, chemolithoautotrophic, nitrate-reducing bacterium that forms a deep branch within the phylum Aquificae International Journal of Systematic and Evolutionary Microbiology, 2002, 52, 1859-1865.	1.7	22
107	Mutational Analysis of the Rhizobium lupini H13-3 and Sinorhizobium meliloti Flagellin Genes: Importance of Flagellin A for Flagellar Filament Structure and Transcriptional Regulation. Journal of Bacteriology, 2001, 183, 5334-5342.	2.2	68
108	The Recombinant Thermosome from the Hyperthermophilic Archaeon Methanopyrus kandleri: In Vitro Analysis of Its Chaperone Activity. Biological Chemistry, 1999, 380, 55-62.	2.5	19

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109	Formation of Fibrous Aggregates from a Non-native Intermediate: The Isolated P22 Tailspike \hat{I}^2 -Helix Domain. Journal of Biological Chemistry, 1999, 274, 18589-18596.	3.4	38
110	Recombinant homo- and hetero-oligomers of an ultrastable chaperonin from the archaeon Pyrodictium occultum show chaperone activity in vitro. FEBS Journal, 1998, 258, 837-845.	0.2	31
111	Thermococcus acidaminovorans sp. nov., a new hyperthermophilic alkalophilic archaeon growing on amino acids. Extremophiles, 1998, 2, 109-114.	2.3	56
112	Electron Tomography of Ice-Embedded Prokaryotic Cells. Biophysical Journal, 1998, 74, 1031-1042.	0.5	195
113	<i>Thermocrinis ruber</i> gen. nov., sp. nov., a Pink-Filament-Forming Hyperthermophilic Bacterium Isolated from Yellowstone National Park. Applied and Environmental Microbiology, 1998, 64, 3576-3583.	3.1	206
114	Characterization of a 200-kDa Diatom Protein that is Specifically Associated with a Silica-Based Substructure of the Cell Wall. FEBS Journal, 1997, 250, 99-105.	0.2	137
115	Pyrolobus fumarii , gen. and sp. nov., represents a novel group of archaea, extending the upper temperature limit for life to $113\ddot{\imath}_2^{1/2}$ C. Extremophiles, 1997, 1, 14-21.	2.3	493
116	Cultivation of hyperthermophilic archaea in capillary tubes resulting in improved preservation of fine structures. Archives of Microbiology, 1997, 168, 373-379.	2.2	29
117	Ferroglobus placidus gen. nov., sp. nov., a novel hyperthermophilic archaeum that oxidizes Fe 2+ at neutral pH under anoxic conditions. Archives of Microbiology, 1996, 166, 308-314.	2.2	312
118	Thermococcus chitonophagus sp. nov., a novel, chitin-degrading, hyperthermophilic archaeum from a deep-sea hydrothermal vent environment. Archives of Microbiology, 1995, 164, 255-264.	2.2	126
119	Octameric enolase from the hyperthermophilic bacterium <i>Thermotoga maritima</i> : Purification, characterization, and image processing. Protein Science, 1995, 4, 228-236.	7.6	48
120	Thiobacillus plumbophilus spec. nov., a novel galena and hydrogen oxidizer. Archives of Microbiology, 1992, 157, 213-217.	2.2	71
121	Pyrodictium abyssi sp. nov. Represents a Novel Heterotrophic Marine Archaeal Hyperthermophile Growing at 110°C. Systematic and Applied Microbiology, 1991, 14, 245-253.	2.8	140
122	A porin-type protein is the main constituent of the cell envelope of the ancestral eubacteriumThermotoga maritima. FEBS Letters, 1990, 262, 64-68.	2.8	59
123	Proteolysis of the major cell envelope protein ofDeinococcus radioduransremains morphologically latent. FEMS Microbiology Letters, 1983, 17, 115-119.	1.8	17
124	The Major Cell Envelope Protein of Micrococcus radiodurans (R1). FEBS Journal, 1982, 125, 535-544.	0.2	109
125	Proteinaceous Surface Layers of <i>Archaea < /i>: Ultrastructure and Biochemistry., 0,, 315-340.</i>		28