

John A Fuerst

List of Publications by Year in descending order

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98
papers

8,309
citations

76326

40
h-index

48315

88
g-index

106
all docs

106
docs citations

106
times ranked

5790
citing authors

#	ARTICLE	IF	CITATIONS
1	Missing lithotroph identified as new planctomycete. <i>Nature</i> , 1999, 400, 446-449.	27.8	1,382
2	Candidatus <i>Scalindia brodae</i> , sp. nov., Candidatus <i>Scalindia wagneri</i> , sp. nov., Two New Species of Anaerobic Ammonium Oxidizing Bacteria. <i>Systematic and Applied Microbiology</i> , 2003, 26, 529-538.	2.8	535
3	Microbiology and application of the anaerobic ammonium oxidation (<i>anammox</i>) process. <i>Current Opinion in Biotechnology</i> , 2001, 12, 283-288.	6.6	534
4	Candidatus <i>Anammoxoglobus propionicus</i> a new propionate oxidizing species of anaerobic ammonium oxidizing bacteria. <i>Systematic and Applied Microbiology</i> , 2007, 30, 39-49.	2.8	511
5	Beyond the bacterium: planctomycetes challenge our concepts of microbial structure and function. <i>Nature Reviews Microbiology</i> , 2011, 9, 403-413.	28.6	410
6	New concepts of microbial treatment processes for the nitrogen removal in wastewater. <i>FEMS Microbiology Reviews</i> , 2003, 27, 481-492.	8.6	407
7	Cell compartmentalisation in planctomycetes: novel types of structural organisation for the bacterial cell. <i>Archives of Microbiology</i> , 2001, 175, 413-429.	2.2	334
8	INTRACELLULAR COMPARTMENTATION IN PLANCTOMYCETES. <i>Annual Review of Microbiology</i> , 2005, 59, 299-328.	7.3	256
9	The anammoxosome: an intracytoplasmic compartment in anammox bacteria. <i>FEMS Microbiology Letters</i> , 2004, 233, 7-13.	1.8	243
10	Endocytosis-like protein uptake in the bacterium <i>Gemmata obscuriglobus</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 12883-12888.	7.1	210
11	The occurrence of hopanoids in planctomycetes: implications for the sedimentary biomarker record. <i>Organic Geochemistry</i> , 2004, 35, 561-566.	1.8	179
12	Membrane-bounded nucleoid in the eubacterium <i>Gemmatata obscuriglobus</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1991, 88, 8184-8188.	7.1	168
13	Linking Ultrastructure and Function in Four Genera of Anaerobic Ammonium-Oxidizing Bacteria: Cell Plan, Glycogen Storage, and Localization of Cytochrome <i>c</i> Proteins. <i>Journal of Bacteriology</i> , 2008, 190, 708-717.	2.2	163
14	Anaerobic ammonium oxidation by marine and freshwater planctomycete-like bacteria. <i>Applied Microbiology and Biotechnology</i> , 2003, 63, 107-114.	3.6	156
15	Discovery of a New Source of Rifamycin Antibiotics in Marine Sponge Actinobacteria by Phylogenetic Prediction. <i>Applied and Environmental Microbiology</i> , 2006, 72, 2118-2125.	3.1	128
16	Marine actinomycetes related to the 'Salinospora' group from the Great Barrier Reef sponge <i>Pseudoceratina clavata</i> . <i>Environmental Microbiology</i> , 2005, 7, 509-518.	3.8	123
17	Phylum Verrucomicrobia representatives share a compartmentalized cell plan with members of bacterial phylum Planctomycetes. <i>BMC Microbiology</i> , 2009, 9, 5.	3.3	120
18	Pirellosomes: a new type of membrane-bounded cell compartment in planctomycete bacteria of the genus <i>Pirellula</i> . <i>Microbiology (United Kingdom)</i> , 1997, 143, 739-748.	1.8	112

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19	Isolation of Gemmata -Like and Isosphaera -Like Planctomycete Bacteria from Soil and Freshwater. Applied and Environmental Microbiology, 2002, 68, 417-422.	3.1	110
20	A comparison of five methods for assaying bacterial hydrophobicity. Journal of Microbiological Methods, 1986, 6, 13-19.	1.6	95
21	Demonstration of lipopolysaccharide on sheathed flagella of <i>Vibrio cholerae</i> O:1 by protein A-gold immunoelectron microscopy. Journal of Bacteriology, 1988, 170, 1488-1494.	2.2	90
22	The anammox case-a new experimental manifesto for microbiological eco-physiology. Antonie Van Leeuwenhoek, 2002, 81, 693-702.	1.7	89
23	Improved nitrogen removal by application of new nitrogen-cycle bacteria. Reviews in Environmental Science and Biotechnology, 2002, 1, 51-63.	8.1	88
24	Isolation and molecular identification of planctomycete bacteria from postlarvae of the giant tiger prawn, <i>Penaeus monodon</i> . Applied and Environmental Microbiology, 1997, 63, 254-262.	3.1	84
25	Diversity of polyketide synthase genes from bacteria associated with the marine sponge <i>Pseudoceratina clavata</i> : culture-dependent and culture-independent approaches. Environmental Microbiology, 2006, 8, 1460-1470.	3.8	78
26	Intracellular localization of membrane-bound ATPases in the compartmentalized anammox bacterium <i>Candidatus</i> <i>Kuenenia stuttgartiensis</i> TM . Molecular Microbiology, 2010, 77, 701-715.	2.5	71
27	Phenotypic conversion of <i>Pseudomonas aeruginosa</i> in cystic fibrosis. Journal of Clinical Microbiology, 1990, 28, 1143-1146.	3.9	68
28	Heterotrophic bacteria in an air-handling system. Applied and Environmental Microbiology, 1992, 58, 3914-3920.	3.1	67
29	The Order Planctomycetales, Including the Genera Planctomyces, Pirellula, Gemmata and Isosphaera and the Candidatus Genera Brocadia, Kuenenia and Scalindua. , 2006, , 757-793.		63
30	Phylogenetic Analysis of <i>Bradyrhizobium japonicum</i> and Photosynthetic Stem-Nodulating Bacteria from <i>Aeschynomene</i> Species Grown in Separated Geographical Regions. Applied and Environmental Microbiology, 1994, 60, 940-946.	3.1	63
31	The cell cycle of the planctomycete <i>Gemmata obscuriglobus</i> with respect to cell compartmentalization. BMC Cell Biology, 2009, 10, 4.	3.0	61
32	Widespread Distribution of Poribacteria in Demospongiae. Applied and Environmental Microbiology, 2009, 75, 5695-5699.	3.1	60
33	Culturable Bacterial Symbionts Isolated from Two Distinct Sponge Species (<i>Pseudoceratina clavata</i>) Tj ETQq1 1 0.784314 rgBT /Overl... Microbial Ecology, 2005, 50, 213-220.	2.8	56
34	Cell division ring, a new cell division protein and vertical inheritance of a bacterial organelle in anammox planctomycetes. Molecular Microbiology, 2009, 73, 1009-1019.	2.5	53
35	Reclassification of the polyphyletic genus Prosthecomicrobium to form two novel genera, <i>Vasilyevaea</i> gen. nov. and <i>Bauldia</i> gen. nov. with four new combinations: <i>Vasilyevaea enhydra</i> comb. nov., <i>Vasilyevaea mishustinii</i> comb. nov., <i>Bauldia consociata</i> comb. nov. and <i>Bauldia litoralis</i> comb. nov.. International Journal of Systematic and Evolutionary Microbiology, 2010. 60. 2960-2966.	1.7	52
36	Inhibition of growth of <i>Legionella</i> species by heterotrophic plate count bacteria isolated from chlorinated drinking water. Current Microbiology, 1990, 21, 139-143.	2.2	48

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37	LC-MS-Based Metabolomics Study of Marine Bacterial Secondary Metabolite and Antibiotic Production in <i>Salinispora arenicola</i> . <i>Marine Drugs</i> , 2015, 13, 249-266.	4.6	45
38	The PVC superphylum: exceptions to the bacterial definition?. <i>Antonie Van Leeuwenhoek</i> , 2013, 104, 451-466.	1.7	44
39	Keys to eukaryality: Planctomycetes and ancestral evolution of cellular complexity. <i>Frontiers in Microbiology</i> , 2012, 3, 167.	3.5	43
40	Structural Studies of Planctomycete <i>Gemmata obscuriglobus</i> Support Cell Compartmentalisation in a Bacterium. <i>PLoS ONE</i> , 2014, 9, e91344.	2.5	42
41	Diversity and biotechnological potential of microorganisms associated with marine sponges. <i>Applied Microbiology and Biotechnology</i> , 2014, 98, 7331-7347.	3.6	41
42	Isolation of a bacterium resembling <i>Pirellula</i> species from primary tissue culture of the giant tiger prawn (<i>Penaeus monodon</i>). <i>Applied and Environmental Microbiology</i> , 1991, 57, 3127-3134.	3.1	36
43	Phylogenetic Analysis of Evolutionary Relationships of the Planctomycete Division of the Domain Bacteria Based on Amino Acid Sequences of Elongation Factor Tu. <i>Journal of Molecular Evolution</i> , 2001, 52, 405-418.	1.8	35
44	Isolation and diversity of planctomycetes from the sponge <i>Niphates</i> sp., seawater, and sediment of Moreton Bay, Australia. <i>Antonie Van Leeuwenhoek</i> , 2013, 104, 533-546.	1.7	35
45	Heterogeneity, persistence, and distribution of <i>Pseudomonas aeruginosa</i> genotypes in cystic fibrosis patients. <i>Journal of Clinical Microbiology</i> , 1991, 29, 2151-2157.	3.9	35
46	Protein uptake by bacteria. <i>Communicative and Integrative Biology</i> , 2010, 3, 572-575.	1.4	33
47	Discovering the Recondite Secondary Metabolome Spectrum of <i>Salinispora</i> Species: A Study of Inter-Species Diversity. <i>PLoS ONE</i> , 2014, 9, e91488.	2.5	33
48	Gene discovery within the planctomycete division of the domain Bacteria using sequence tags from genomic DNA libraries. <i>Genome Biology</i> , 2002, 3, research0031.1.	9.6	28
49	Effects of fixative and buffer on morphology and ultrastructure of a freshwater planctomycete, <i>Gemmata obscuriglobus</i> . <i>Journal of Microbiological Methods</i> , 1995, 21, 45-54.	1.6	27
50	Membrane-bounded nucleoids in microbial symbionts of marine sponges. <i>FEMS Microbiology Letters</i> , 1998, 166, 29-34.	1.8	27
51	A Phylogenetic Analysis of the Genus <i>Blastobacter</i> with a View to its Future Reclassification. <i>Systematic and Applied Microbiology</i> , 1994, 17, 51-57.	2.8	25
52	Novel protein domains and motifs in the marine planctomycete <i>Rhodopirellula baltica</i> . <i>FEMS Microbiology Letters</i> , 2004, 236, 333-340.	1.8	25
53	<i>Tuwongella immobilis</i> gen. nov., sp. nov., a novel non-motile bacterium within the phylum Planctomycetes. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2017, 67, 4923-4929.	1.7	25
54	Nuclear Pore-Like Structures in a Compartmentalized Bacterium. <i>PLoS ONE</i> , 2017, 12, e0169432.	2.5	24

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55	Diversity and distribution of the bioactive actinobacterial genus <i>Salinispora</i> from sponges along the Great Barrier Reef. <i>Antonie Van Leeuwenhoek</i> , 2012, 101, 603-618.	1.7	21
56	Production of <i>N</i> -acyl homoserine lactones by the sponge-associated marine actinobacteria <i>Salinispora arenicola</i> and <i>Salinispora pacifica</i> . <i>FEMS Microbiology Letters</i> , 2017, 364, fnx002.	1.8	21
57	Diversity of <i>Mycobacterium</i> species from marine sponges and their sensitivity to antagonism by sponge-derived rifamycin-synthesizing actinobacterium in the genus <i>Salinispora</i> . <i>FEMS Microbiology Letters</i> , 2010, 313, 33-40.	1.8	20
58	Nested Bacterial Boxes: Nuclear and Other Intracellular Compartments in Planctomycetes. <i>Journal of Molecular Microbiology and Biotechnology</i> , 2013, 23, 95-103.	1.0	20
59	Effects of salinity on antibiotic production in sponge-derived <i>Salinispora</i> actinobacteria. <i>Journal of Applied Microbiology</i> , 2014, 117, 109-125.	3.1	19
60	A canonical FtsZ protein in <i>Verrucomicrobium spinosum</i> , a member of the Bacterial phylum Verrucomicrobia that also includes tubulin-producing <i>Prostheco bacter</i> species. <i>BMC Evolutionary Biology</i> , 2007, 7, 37.	3.2	18
61	Reanalysis of 5S rRNA sequence data for the Vibrionaceae with the clustan program suite. <i>Current Microbiology</i> , 1987, 15, 329-335.	2.2	17
62	Bacterial sheathed flagella and the rotary motor model for the mechanism of bacterial motility. <i>Journal of Theoretical Biology</i> , 1980, 84, 761-774.	1.7	16
63	Planctomycetes – New Models for Microbial Cells and Activities. , 2017, , 1-27.		16
64	The Role of Reductionism in the Development of Molecular Biology: Peripheral or Central?. <i>Social Studies of Science</i> , 1982, 12, 241-278.	2.5	15
65	Electron tomography of the nucleoid of <i>Gemmata obscuriglobus</i> reveals complex liquid crystalline cholesteric structure. <i>Frontiers in Microbiology</i> , 2012, 3, 326.	3.5	15
66	Novel protein domains and motifs in the marine planctomycete <i>Rhodopirellula baltica</i> . <i>FEMS Microbiology Letters</i> , 2004, 236, 333-340.	1.8	15
67	Comparative analysis of ribonuclease P RNA of the planctomycetes. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2004, 54, 1333-1344.	1.7	14
68	Screening of rifamycin producing marine sponge bacteria by LC-MS. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2007, 852, 362-366.	2.3	14
69	Bioinformatic analyses of integral membrane transport proteins encoded within the genome of the planctomycetes species, <i>Rhodopirellula baltica</i> . <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2014, 1838, 193-215.	2.6	14
70	The Definition of Molecular Biology and the Definition of Policy: The Role of the Rockefeller Foundation's Policy for Molecular Biology. <i>Social Studies of Science</i> , 1984, 14, 225-237.	2.5	13
71	Developmental cycle and pharmaceutically relevant compounds of <i>Salinispora</i> actinobacteria isolated from Great Barrier Reef marine sponges. <i>Applied Microbiology and Biotechnology</i> , 2013, 97, 3097-3108.	3.6	13
72	Molecular and ultrastructural confirmation of classification of ATCC 35122 as a strain of <i>Pirellula staleyi</i> . <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2002, 52, 1663-1667.	1.7	13

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73	Anammoxosomes of Anaerobic Ammonium-oxidizing Planctomycetes. Microbiology Monographs, 2006, , 259-283.	0.6	10
74	Two Peptides, Cycloaspeptide A and Nazumamide A from a Sponge Associated Marine Actinobacterium <i>Salinispora</i> sp. Natural Product Communications, 2014, 9, 1934578X1400900.	0.5	10
75	Microorganisms Should Be High on DNA Preservation List. , 2000, 290, 1503b-1503.		10
76	Immersing undergraduate students in the research experience. Biochemistry and Molecular Biology Education, 2012, 40, 37-45.	1.2	9
77	Towards understanding the molecular mechanism of the endocytosis-like process in the bacterium <i>Gemmata obscuriglobus</i> . Biochimica Et Biophysica Acta - Molecular Cell Research, 2014, 1843, 1732-1738.	4.1	9
78	Ancient, highly conserved proteins from a LUCA with complex cell biology provide evidence in support of the nuclear compartment commonality (NuCom) hypothesis. Research in Microbiology, 2017, 168, 395-412.	2.1	9
79	Making heads or tails of the HU proteins in the planctomycete <i>Gemmata obscuriglobus</i> . Microbiology (United Kingdom), 2011, 157, 2012-2021.	1.8	8
80	Bacterial production of the fungus-derived cholesterol-lowering agent mevillin. Biomedical Chromatography, 2014, 28, 1163-1166.	1.7	8
81	Buds from the tree of life: linking compartmentalized prokaryotes and eukaryotes by a non-hyperthermophile common ancestor and implications for understanding Archaeal microbial communities. International Journal of Astrobiology, 2004, 3, 183-187.	1.6	7
82	Microbiological material exchanges among scientists. Research in Microbiology, 2010, 161, 446-452.	2.1	7
83	Two peptides, cycloaspeptide A and nazumamide A from a sponge associated marine actinobacterium <i>Salinispora</i> sp. Natural Product Communications, 2014, 9, 545-6.	0.5	7
84	Paralogization and New Protein Architectures in Planctomycetes Bacteria with Complex Cell Structures. Molecular Biology and Evolution, 2020, 37, 1020-1040.	8.9	6
85	Negative staining of freshwater bacterioneuston sampled directly with electron microscope specimen support grids. Microbial Ecology, 1987, 13, 219-228.	2.8	5
86	Close relationship of RNase P RNA in <i>Gemmata</i> and anammox planctomycete bacteria. FEMS Microbiology Letters, 2007, 268, 244-253.	1.8	5
87	Phylum Verrucomicrobia. , 2019, , 551-551.		3
88	Membrane-bounded nucleoids in microbial symbionts of marine sponges. FEMS Microbiology Letters, 1998, 166, 29-34.	1.8	3
89	Membrane-bounded Nucleoids and Pirellulosomes of Planctomycetes. Microbiology Monographs, 2006, , 229-257.	0.6	2
90	Microorganismsâ€”A Journal and a Unifying Concept for the Science of Microbiology. Microorganisms, 2014, 2, 140-146.	3.6	2

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91	Microorganisms—A Forum for Understanding Microbial Life in All Its Forms. <i>Microorganisms</i> , 2013, 1, 1-2.	3.6	1
92	Novel Compartmentalization in Planctomycete Bacteria. <i>Microscopy and Microanalysis</i> , 2004, 10, 1528-1529.	0.4	0
93	Microbial Evolution: Chlamydial Creatures from the Deep. <i>Current Biology</i> , 2020, 30, R267-R269.	3.9	0
94	Editorial: Structure, Function and Evolution of Complex Cellular Organization in Bacteria and Archaea. <i>Frontiers in Microbiology</i> , 2021, 12, 751416.	3.5	0
95	Microbial diversity beyond E. coli: new microbial worlds, new concepts in biology. <i>Microbiology Australia</i> , 2011, 32, 73.	0.4	0
96	Planctomycetes: Their Evolutionary Implications for Models for Origins of Eukaryotes and the Eukaryote Nucleus and Endomembranes. , 2013, , 243-270.		0
97	A Final Word: The Future of Planctomycetology and Related Studies. , 2013, , 271-273.		0
98	Cell Compartmentalization and Endocytosis in Planctomycetes: Structure and Function in Complex Bacteria. , 2013, , 39-75.		0