

Laura Villanueva

List of Publications by Year in descending order

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75
papers

2,751
citations

159585

30
h-index

214800

47
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79
all docs

79
docs citations

79
times ranked

2781
citing authors

#	ARTICLE	IF	CITATIONS
1	Changes in the Distribution of Membrane Lipids during Growth of <i>Thermotoga maritima</i> at Different Temperatures: Indications for the Potential Mechanism of Biosynthesis of Ether-Bound Diabolic Acid (Membrane-Spanning) Lipids. <i>Applied and Environmental Microbiology</i> , 2022, 88, AEM0176321.	3.1	8
2	Bacteriohopanetetrol- <i>and</i> : constraining its application as a lipid biomarker for marine anammox using the water column oxygen gradient of the Benguela upwelling system. <i>Biogeosciences</i> , 2022, 19, 201-221.	3.3	6
3	The importance of biofilm formation for cultivation of a Micrarchaeon and its interactions with its Thermoplasmatales host. <i>Nature Communications</i> , 2022, 13, 1735.	12.8	12
4	Interplay between microbial community composition and chemodiversity of dissolved organic matter throughout the Black Sea water column redox gradient. <i>Limnology and Oceanography</i> , 2022, 67, 329-347.	3.1	8
5	A diverse uncultivated microbial community is responsible for organic matter degradation in the Black Sea sulphidic zone. <i>Environmental Microbiology</i> , 2021, 23, 2709-2728.	3.8	47
6	The bacterial sulfur cycle in expanding dysoxic and euxinic marine waters. <i>Environmental Microbiology</i> , 2021, 23, 2834-2857.	3.8	145
7	Microbial community development on model particles in the deep sulfidic waters of the Black Sea. <i>Environmental Microbiology</i> , 2021, 23, 2729-2746.	3.8	11
8	Nitrate promotes the transfer of methane-derived carbon from the methanotroph <i>Methylobacter</i> sp. to the methylotroph <i>Methylotenera</i> sp. in eutrophic lake water. <i>Limnology and Oceanography</i> , 2021, 66, 878-891.	3.1	29
9	Bridging the membrane lipid divide: bacteria of the FCB group superphylum have the potential to synthesize archaeal ether lipids. <i>ISME Journal</i> , 2021, 15, 168-182.	9.8	62
10	Anaerobic microbial methanol conversion in marine sediments. <i>Environmental Microbiology</i> , 2021, 23, 1348-1362.	3.8	15
11	Novel hydrocarbon-utilizing soil mycobacteria synthesize unique mycocerosic acids at a Sicilian everlasting fire. <i>Biogeosciences</i> , 2021, 18, 1463-1479.	3.3	2
12	Organic Matter Type Defines the Composition of Active Microbial Communities Originating From Anoxic Baltic Sea Sediments. <i>Frontiers in Microbiology</i> , 2021, 12, 628301.	3.5	13
13	Sources and seasonality of long-chain diols in a temperate lake (Lake Geneva). <i>Organic Geochemistry</i> , 2021, 156, 104223.	1.8	3
14	Lipidomics of Environmental Microbial Communities. I: Visualization of Component Distributions Using Untargeted Analysis of High-Resolution Mass Spectrometry Data. <i>Frontiers in Microbiology</i> , 2021, 12, 659302.	3.5	24
15	The physiology and metabolic properties of a novel, low-abundance <i>Psychrobacter</i> species isolated from the anoxic Black Sea shed light on its ecological role. <i>Environmental Microbiology Reports</i> , 2021, 13, 899-910.	2.4	10
16	Seasonal and multi-annual variation in the abundance of isoprenoid GDGT membrane lipids and their producers in the water column of a meromictic equatorial crater lake (Lake Chala, East Africa). <i>Quaternary Science Reviews</i> , 2021, 273, 107263.	3.0	18
17	Methane oxidation in anoxic lake water stimulated by nitrate and sulfate addition. <i>Environmental Microbiology</i> , 2020, 22, 766-782.	3.8	66
18	Fungi and viruses as important players in microbial mats. <i>FEMS Microbiology Ecology</i> , 2020, 96, .	2.7	12

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19	Physiological, chemotaxonomic and genomic characterization of two novel piezotolerant bacteria of the family Marinifilaceae isolated from sulfidic waters of the Black Sea. <i>Systematic and Applied Microbiology</i> , 2020, 43, 126122.	2.8	11
20	Assessing the Effect of Humic Substances and Fe(III) as Potential Electron Acceptors for Anaerobic Methane Oxidation in a Marine Anoxic System. <i>Microorganisms</i> , 2020, 8, 1288.	3.6	11
21	Biosulfidogenesis Mediates Natural Attenuation in Acidic Mine Pit Lakes. <i>Microorganisms</i> , 2020, 8, 1275.	3.6	19
22	Cascabel: A Scalable and Versatile Amplicon Sequence Data Analysis Pipeline Delivering Reproducible and Documented Results. <i>Frontiers in Genetics</i> , 2020, 11, 489357.	2.3	19
23	Diagnostic amide products of amino lipids detected in the microaerophilic bacteria <i>Lutibacter</i> during routine fatty acid analysis using gas chromatography. <i>Organic Geochemistry</i> , 2020, 144, 104027.	1.8	3
24	<i>Pontiella desulfatans</i> gen. nov., sp. nov., and <i>Pontiella sulfatireligans</i> sp. nov., Two Marine Anaerobes of the Pontellaceae fam. nov. Producing Sulfated Glycosaminoglycan-like Exopolymers. <i>Microorganisms</i> , 2020, 8, 920.	3.6	31
25	Impact of Electron Acceptor Availability on Methane-Influenced Microorganisms in an Enrichment Culture Obtained From a Stratified Lake. <i>Frontiers in Microbiology</i> , 2020, 11, 715.	3.5	18
26	The absence of intact polar lipid-derived GDGTs in marine waters dominated by Marine Group II: Implications for lipid biosynthesis in Archaea. <i>Scientific Reports</i> , 2020, 10, 294.	3.3	30
27	Seasonal variability and sources of in situ brGDGT production in a permanently stratified African crater lake. <i>Biogeosciences</i> , 2020, 17, 5443-5463.	3.3	31
28	Anaerobic Degradation of Sulfated Polysaccharides by Two Novel Kiritimatiellales Strains Isolated From Black Sea Sediment. <i>Frontiers in Microbiology</i> , 2019, 10, 253.	3.5	56
29	Depth-related differences in archaeal populations impact the isoprenoid tetraether lipid composition of the Mediterranean Sea water column. <i>Organic Geochemistry</i> , 2019, 135, 16-31.	1.8	42
30	Biosynthesis of Long Chain Alkyl Diols and Long Chain Alkenols in <i>Nannochloropsis</i> spp. (Eustigmatophyceae). <i>Plant and Cell Physiology</i> , 2019, 60, 1666-1682.	3.1	9
31	New Insights Into the Polar Lipid Composition of Extremely Halo(alkali)philic Euryarchaea From Hypersaline Lakes. <i>Frontiers in Microbiology</i> , 2019, 10, 377.	3.5	48
32	Archaeal Sources of Intact Membrane Lipid Biomarkers in the Oxygen Deficient Zone of the Eastern Tropical South Pacific. <i>Frontiers in Microbiology</i> , 2019, 10, 765.	3.5	21
33	A combined lipidomic and 16S rRNA gene amplicon sequencing approach reveals archaeal sources of intact polar lipids in the stratified Black Sea water column. <i>Geobiology</i> , 2019, 17, 91-109.	2.4	58
34	Potential recycling of thaumarchaeotal lipids by DPANN Archaea in seasonally hypoxic surface marine sediments. <i>Organic Geochemistry</i> , 2018, 119, 101-109.	1.8	26
35	A quest for the biological sources of long chain alkyl diols in the western tropical North Atlantic Ocean. <i>Biogeosciences</i> , 2018, 15, 5951-5968.	3.3	30
36	Long-chain diols in rivers: distribution and potential biological sources. <i>Biogeosciences</i> , 2018, 15, 4147-4161.	3.3	15

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37	Engineering E. coli to Have a Hybrid Archaeal/Bacterial Membrane. Trends in Microbiology, 2018, 26, 559-560.	7.7	4
38	Assessing the metabolism of sedimentary microbial communities using the hydrogen isotopic composition of fatty acids. Organic Geochemistry, 2018, 124, 123-132.	1.8	7
39	Benthic archaea as potential sources of tetraether membrane lipids in sediments across an oxygen minimum zone. Biogeosciences, 2018, 15, 4047-4064.	3.3	56
40	An overview of the occurrence of ether- and ester-linked iso-diabolic acid membrane lipids in microbial cultures of the Acidobacteria: Implications for brGDGT paleoproxies for temperature and pH. Organic Geochemistry, 2018, 124, 63-76.	1.8	117
41	Phylogenomic analysis of lipid biosynthetic genes of Archaea shed light on the "lipid divide"™. Environmental Microbiology, 2017, 19, 54-69.	3.8	77
42	Impact of culturing conditions on the abundance and composition of long chain alkyl diols in species of the genus Nannochloropsis. Organic Geochemistry, 2017, 108, 9-17.	1.8	15
43	Impact of Seasonal Hypoxia on Activity and Community Structure of Chemolithoautotrophic Bacteria in a Coastal Sediment. Applied and Environmental Microbiology, 2017, 83, .	3.1	28
44	Seasonal changes in the D&H ratio of fatty acids of pelagic microorganisms in the coastal North Sea. Biogeosciences, 2016, 13, 5527-5539.	3.3	11
45	Metagenomic analysis of nitrogen and methane cycling in the Arabian Sea oxygen minimum zone. PeerJ, 2016, 4, e1924.	2.0	77
46	Abundance and Diversity of Denitrifying and Anammox Bacteria in Seasonally Hypoxic and Sulfidic Sediments of the Saline Lake Grevelingen. Frontiers in Microbiology, 2016, 7, 1661.	3.5	30
47	Elucidation and identification of amino acid containing membrane lipids using liquid chromatography/high-resolution mass spectrometry. Rapid Communications in Mass Spectrometry, 2016, 30, 739-750.	1.5	28
48	Biological source and provenance of deep-water derived isoprenoid tetraether lipids along the Portuguese continental margin. Geochimica Et Cosmochimica Acta, 2016, 172, 177-204.	3.9	53
49	Depth-related distribution of a key gene of the tetraether lipid biosynthetic pathway in marine <sc>T</sc>haumarchaeota. Environmental Microbiology, 2015, 17, 3527-3539.	3.8	44
50	Impact of metabolism and growth phase on the hydrogen isotopic composition of microbial fatty acids. Frontiers in Microbiology, 2015, 6, 408.	3.5	35
51	Lysine and novel hydroxylysine lipids in soil bacteria: amino acid membrane lipid response to temperature and pH in Pseudopedobacter saltans. Frontiers in Microbiology, 2015, 6, 637.	3.5	21
52	Comparison of the effect of salinity on the D/H ratio of fatty acids of heterotrophic and photoautotrophic microorganisms. FEMS Microbiology Letters, 2015, 362, .	1.8	25
53	Abundant Trimethylornithine Lipids and Specific Gene Sequences Are Indicative of Planctomycete Importance at the Oxic/Anoxic Interface in Sphagnum-Dominated Northern Wetlands. Applied and Environmental Microbiology, 2015, 81, 6333-6344.	3.1	41
54	Shotgun metagenomic data reveals significant abundance but low diversity of "Candidatus Scalindua" marine anammox bacteria in the Arabian Sea oxygen minimum zone. Frontiers in Microbiology, 2014, 5, 31.	3.5	41

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55	Seasonality and depth distribution of the abundance and activity of ammonia oxidizing microorganisms in marine coastal sediments (North Sea). <i>Frontiers in Microbiology</i> , 2014, 5, 472.	3.5	42
56	Diversity and distribution of a key sulpholipid biosynthetic gene in marine microbial assemblages. <i>Environmental Microbiology</i> , 2014, 16, 774-787.	3.8	14
57	Potential biological sources of long chain alkyl diols in a lacustrine system. <i>Organic Geochemistry</i> , 2014, 68, 27-30.	1.8	35
58	A re-evaluation of the archaeal membrane lipid biosynthetic pathway. <i>Nature Reviews Microbiology</i> , 2014, 12, 438-448.	28.6	110
59	Genetic biomarkers of the sterol biosynthetic pathway in microalgae. <i>Environmental Microbiology Reports</i> , 2014, 6, 35-44.	2.4	20
60	Occurrence and activity of anammox bacteria in surface sediments of the southern North Sea. <i>FEMS Microbiology Ecology</i> , 2014, 89, 99-110.	2.7	52
61	Are Marine Group II Euryarchaeota significant contributors to tetraether lipids in the ocean?. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, E4285.	7.1	37
62	Linking isoprenoidal GDGT membrane lipid distributions with gene abundances of ammonia-oxidizing Thaumarchaeota and uncultured crenarchaeotal groups in the water column of a tropical lake (Lake Challa, East Africa). <i>Environmental Microbiology</i> , 2014, 16, 1052-1062.	3.8	75
63	Novel Mono-, Di-, and Trimethylornithine Membrane Lipids in Northern Wetland Planctomycetes. <i>Applied and Environmental Microbiology</i> , 2013, 79, 6874-6884.	3.1	44
64	Different seasonality of pelagic and benthic Thaumarchaeota in the North Sea. <i>Biogeosciences</i> , 2013, 10, 7195-7206.	3.3	33
65	Intact polar and core glycerol dibiphytanyl glycerol tetraether lipids in the Arabian Sea oxygen minimum zone: I. Selective preservation and degradation in the water column and consequences for the TEX86. <i>Geochimica Et Cosmochimica Acta</i> , 2012, 98, 228-243.	3.9	111
66	Niche segregation of ammonia-oxidizing archaea and anammox bacteria in the Arabian Sea oxygen minimum zone. <i>ISME Journal</i> , 2011, 5, 1896-1904.	9.8	214
67	Inhibition of Bacterial Conjugation by Phage M13 and Its Protein g3p: Quantitative Analysis and Model. <i>PLoS ONE</i> , 2011, 6, e19991.	2.5	76
68	Intact Phospholipid and Quinone Biomarkers to Assess Microbial Diversity and Redox State in Microbial Mats. <i>Microbial Ecology</i> , 2010, 60, 226-238.	2.8	12
69	Diversity and physiology of polyhydroxyalkanoate-producing and -degrading strains in microbial mats. <i>FEMS Microbiology Ecology</i> , 2010, 74, 42-54.	2.7	17
70	Quantification of <i>Desulfovibrio vulgaris</i> Dissimilatory Sulfite Reductase Gene Expression during Electron Donor- and Electron Acceptor-Limited Growth. <i>Applied and Environmental Microbiology</i> , 2008, 74, 5850-5853.	3.1	15
71	Genome-Wide Gene Expression Patterns and Growth Requirements Suggest that <i>Pelobacter carbinolicus</i> Reduces Fe(III) Indirectly via Sulfide Production. <i>Applied and Environmental Microbiology</i> , 2008, 74, 4277-4284.	3.1	48
72	Analysis of diurnal and vertical microbial diversity of a hypersaline microbial mat. <i>Archives of Microbiology</i> , 2007, 188, 137-146.	2.2	29

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73	Monitoring Diel Variations of Physiological Status and Bacterial Diversity in an Estuarine Microbial Mat: An Integrated Biomarker Analysis. <i>Microbial Ecology</i> , 2007, 54, 523-531.	2.8	28
74	Combined Phospholipid Biomarker-16S rRNA Gene Denaturing Gradient Gel Electrophoresis Analysis of Bacterial Diversity and Physiological Status in an Intertidal Microbial Mat. <i>Applied and Environmental Microbiology</i> , 2004, 70, 6920-6926.	3.1	31
75	Physiological status and microbial diversity assessment of microbial mats: The signature lipid biomarker approach. <i>Ophelia</i> , 2004, 58, 165-173.	0.3	4