

Laura M Sanchez

List of Publications by Year in descending order

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Version: 2024-02-01

54
papers

5,158
citations

304602

22
h-index

161767

54
g-index

63
all docs

63
docs citations

63
times ranked

7427
citing authors

#	ARTICLE	IF	CITATIONS
1	Utilizing imaging mass spectrometry to analyze microbial biofilm chemical responses to exogenous compounds. <i>Methods in Enzymology</i> , 2022, 665, 281-304.	0.4	5
2	Relationship between bacterial phylotype and specialized metabolite production in the culturable microbiome of two freshwater sponges. <i>ISME Communications</i> , 2022, 2, .	1.7	4
3	Automated Microbial Library Generation Using the Bioinformatics Platform IDBac. <i>Molecules</i> , 2022, 27, 2038.	1.7	2
4	Home-Built Spinning Apparatus for Drying Agarose-Based Imaging Mass Spectrometry Samples. <i>Journal of the American Society for Mass Spectrometry</i> , 2022, 33, 1325-1328.	1.2	3
5	TIMSCONVERT: a workflow to convert trapped ion mobility data to open data formats. <i>Bioinformatics</i> , 2022, 38, 4046-4047.	1.8	1
6	Bacterial-fungal interactions revealed by genome-wide analysis of bacterial mutant fitness. <i>Nature Microbiology</i> , 2021, 6, 87-102.	5.9	49
7	The neurotransmitter receptor Gabbr1 regulates proliferation and function of hematopoietic stem and progenitor cells. <i>Blood</i> , 2021, 137, 775-787.	0.6	28
8	Models for measuring metabolic chemical changes in the metastasis of high grade serous ovarian cancer: fallopian tube, ovary, and omentum. <i>Molecular Omics</i> , 2021, 17, 819-832.	1.4	3
9	A community resource for paired genomic and metabolomic data mining. <i>Nature Chemical Biology</i> , 2021, 17, 363-368.	3.9	81
10	Fallopian Tube-Derived Tumor Cells Induce Testosterone Secretion from the Ovary, Increasing Epithelial Proliferation and Invasion. <i>Cancers</i> , 2021, 13, 1925.	1.7	3
11	A Small Molecule Coordinates Symbiotic Behaviors in a Host Organ. <i>MBio</i> , 2021, 12, .	1.8	12
12	A Family of Nonribosomal Peptides Modulate Collective Behavior in <i>Pseudovibrio</i> Bacteria Isolated from Marine Sponges**. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 15891-15898.	7.2	9
13	Toward improvement of screening through mass spectrometry-based proteomics: Ovarian cancer as a case study. <i>International Journal of Mass Spectrometry</i> , 2021, 469, 116679.	0.7	5
14	The Effects of Water Volume and Bacterial Concentration on the Water Filtration Assay Used in Zebrafish Health Surveillance. <i>Journal of the American Association for Laboratory Animal Science</i> , 2021, 60, 655-660.	0.6	1
15	Imaging mass spectrometry for natural products discovery: a review of ionization methods. <i>Natural Product Reports</i> , 2020, 37, 150-162.	5.2	54
16	Optimization of a minimal sample preparation protocol for imaging mass spectrometry of unsectioned juvenile invertebrates. <i>Journal of Mass Spectrometry</i> , 2020, 55, e4458.	0.7	8
17	Biofilm Inhibitor Tauroolithocholic Acid Alters Colony Morphology, Specialized Metabolism, and Virulence of <i>Pseudomonas aeruginosa</i> . <i>ACS Infectious Diseases</i> , 2020, 6, 603-612.	1.8	10
18	Detection of Ovarian Cancer Using Samples Sourced from the Vaginal Microenvironment. <i>Journal of Proteome Research</i> , 2020, 19, 503-510.	1.8	7

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19	A Call to Action: the Need for Standardization in Developing Open-Source Mass Spectrometry-Based Methods for Microbial Subspecies Discrimination. <i>MSystems</i> , 2020, 5, .	1.7	2
20	Addition of insoluble fiber to isolation media allows for increased metabolite diversity of lab-cultivable microbes derived from zebrafish gut samples. <i>Gut Microbes</i> , 2020, 11, 1064-1076.	4.3	4
21	Evaluation of Data Analysis Platforms and Compatibility with MALDI-TOF Imaging Mass Spectrometry Data Sets. <i>Journal of the American Society for Mass Spectrometry</i> , 2020, 31, 1313-1320.	1.2	5
22	Minimizing Taxonomic and Natural Product Redundancy in Microbial Libraries Using MALDI-TOF MS and the Bioinformatics Pipeline IDBac. <i>Journal of Natural Products</i> , 2019, 82, 2167-2173.	1.5	16
23	The Natural Products Atlas: An Open Access Knowledge Base for Microbial Natural Products Discovery. <i>ACS Central Science</i> , 2019, 5, 1824-1833.	5.3	258
24	Staring into the void: demystifying microbial metabolomics. <i>FEMS Microbiology Letters</i> , 2019, 366, .	0.7	17
25	Using the Open-Source MALDI TOF-MS IDBac Pipeline for Analysis of Microbial Protein and Specialized Metabolite Data. <i>Journal of Visualized Experiments</i> , 2019, , .	0.2	11
26	BLANKA: an Algorithm for Blank Subtraction in Mass Spectrometry of Complex Biological Samples. <i>Journal of the American Society for Mass Spectrometry</i> , 2019, 30, 1426-1434.	1.2	11
27	Capturing Small Molecule Communication Between Tissues and Cells Using Imaging Mass Spectrometry. <i>Journal of Visualized Experiments</i> , 2019, , .	0.2	9
28	Chemically transformed monolayers on acene thin films for improved metal/organic interfaces. <i>Chemical Communications</i> , 2019, 55, 13975-13978.	2.2	5
29	Whole Cell MALDI Fingerprinting Is a Robust Tool for Differential Profiling of Two-Component Mammalian Cell Mixtures. <i>Journal of the American Society for Mass Spectrometry</i> , 2019, 30, 344-354.	1.2	11
30	Coupling MALDI-TOF mass spectrometry protein and specialized metabolite analyses to rapidly discriminate bacterial function. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 4981-4986.	3.3	68
31	Marine Mammal Microbiota Yields Novel Antibiotic with Potent Activity Against <i>Clostridium difficile</i> . <i>ACS Infectious Diseases</i> , 2018, 4, 59-67.	1.8	22
32	Imaging Mass Spectrometry Reveals Crosstalk between the Fallopian Tube and the Ovary that Drives Primary Metastasis of Ovarian Cancer. <i>ACS Central Science</i> , 2018, 4, 1360-1370.	5.3	19
33	Coproporphyrin III Produced by the Bacterium <i>Glutamicibacter arilaitensis</i> Binds Zinc and Is Upregulated by Fungi in Cheese Rinds. <i>MSystems</i> , 2018, 3, .	1.7	41
34	Conserved Responses in a War of Small Molecules between a Plant-Pathogenic Bacterium and Fungi. <i>MBio</i> , 2018, 9, .	1.8	73
35	Using Tumor Explants for Imaging Mass Spectrometry Visualization of Unlabeled Peptides and Small Molecules. <i>ACS Medicinal Chemistry Letters</i> , 2018, 9, 768-772.	1.3	7
36	Spatial Analyses of Specialized Metabolites: The Key to Studying Function in Hosts. <i>MSystems</i> , 2018, 3, .	1.7	6

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37	<i>Pseudomonas aeruginosa</i> PumA acts on an endogenous phenazine to promote self-resistance. <i>Microbiology</i> (United Kingdom), 2018, 164, 790-800.	0.7	19
38	Calling All Hosts: Bacterial Communication In Situ. <i>CheM</i> , 2017, 2, 334-358.	5.8	37
39	Indexing the <i>Pseudomonas</i> specialized metabolome enabled the discovery of poaeamide B and the bananamides. <i>Nature Microbiology</i> , 2017, 2, 16197.	5.9	121
40	Spatial Molecular Architecture of the Microbial Community of a <i>Peltigera</i> Lichen. <i>MSystems</i> , 2016, 1, .	1.7	36
41	Sharing and community curation of mass spectrometry data with Global Natural Products Social Molecular Networking. <i>Nature Biotechnology</i> , 2016, 34, 828-837.	9.4	2,802
42	An Integrated Metabolomic and Genomic Mining Workflow To Uncover the Biosynthetic Potential of Bacteria. <i>MSystems</i> , 2016, 1, .	1.7	55
43	<i>Ralstonia solanacearum</i> lipopeptide induces chlamyospore development in fungi and facilitates bacterial entry into fungal tissues. <i>ISME Journal</i> , 2016, 10, 2317-2330.	4.4	108
44	Biofilm Formation and Detachment in Gram-Negative Pathogens Is Modulated by Select Bile Acids. <i>PLoS ONE</i> , 2016, 11, e0149603.	1.1	31
45	Mass spectrometry of natural products: current, emerging and future technologies. <i>Natural Product Reports</i> , 2014, 31, 718.	5.2	165
46	Microbiota of Healthy Corals Are Active against Fungi in a Light-Dependent Manner. <i>ACS Chemical Biology</i> , 2014, 9, 2300-2308.	1.6	58
47	Real-Time Metabolomics on Living Microorganisms Using Ambient Electrospray Ionization Flow-Probe. <i>Analytical Chemistry</i> , 2013, 85, 7014-7018.	3.2	106
48	Molecular Networking as a Dereplication Strategy. <i>Journal of Natural Products</i> , 2013, 76, 1686-1699.	1.5	475
49	Virulence caught green-handed. <i>Nature Chemistry</i> , 2013, 5, 155-157.	6.6	5
50	Examination of the Mode of Action of the Almiramide Family of Natural Products against the Kinetoplastid Parasite <i>Trypanosoma brucei</i> . <i>Journal of Natural Products</i> , 2013, 76, 630-641.	1.5	37
51	Examining the Fish Microbiome: Vertebrate-Derived Bacteria as an Environmental Niche for the Discovery of Unique Marine Natural Products. <i>PLoS ONE</i> , 2012, 7, e35398.	1.1	79
52	Versatile Method for the Detection of Covalently Bound Substrates on Solid Supports by DART Mass Spectrometry. <i>Organic Letters</i> , 2011, 13, 3770-3773.	2.4	16
53	Almiramides A [~] C: Discovery and Development of a New Class of Leishmaniasis Lead Compounds. <i>Journal of Medicinal Chemistry</i> , 2010, 53, 4187-4197.	2.9	99
54	Pyrruloacridine Alkaloids from <i>Plakortis quasiampfiaster</i> : Structures and Bioactivity. <i>Journal of Natural Products</i> , 2007, 70, 95-99.	1.5	35