

Shawn R Campagna

List of Publications by Year in descending order

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101
papers

4,309
citations

117625

34
h-index

123424

61
g-index

108
all docs

108
docs citations

108
times ranked

5843
citing authors

#	ARTICLE	IF	CITATIONS
1	Salmonella typhimurium Recognizes a Chemically Distinct Form of the Bacterial Quorum-Sensing Signal AI-2. <i>Molecular Cell</i> , 2004, 15, 677-687.	9.7	502
2	Cryptic carbon and sulfur cycling between surface ocean plankton. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 453-457.	7.1	348
3	Autoinducer 2: a concentration-dependent signal for mutualistic bacterial biofilm growth. <i>Molecular Microbiology</i> , 2006, 60, 1446-1456.	2.5	327
4	Composition of the gut microbiota modulates the severity of malaria. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 2235-2240.	7.1	198
5	Phage infection of an environmentally relevant marine bacterium alters host metabolism and lysate composition. <i>ISME Journal</i> , 2014, 8, 1089-1100.	9.8	127
6	An Expeditious Synthesis of DPD and Boron Binding Studies. <i>Organic Letters</i> , 2005, 7, 569-572.	4.6	121
7	Recognition cascade and metabolite transfer in a marine bacteria-phytoplankton model system. <i>Environmental Microbiology</i> , 2017, 19, 3500-3513.	3.8	111
8	Quorum sensing control of phosphorus acquisition in <i>Trichodesmium</i> consortia. <i>ISME Journal</i> , 2012, 6, 422-429.	9.8	108
9	Metabolite discovery through global annotation of untargeted metabolomics data. <i>Nature Methods</i> , 2021, 18, 1377-1385.	19.0	107
10	Riboneogenesis in Yeast. <i>Cell</i> , 2011, 145, 969-980.	28.9	105
11	The Quorum-Sensing Molecule Autoinducer 2 Regulates Motility and Flagellar Morphogenesis in <i>Helicobacter pylori</i> . <i>Journal of Bacteriology</i> , 2007, 189, 6109-6117.	2.2	84
12	Transcriptomic and metabolomic profiling of chicken adipose tissue in response to insulin neutralization and fasting. <i>BMC Genomics</i> , 2012, 13, 441.	2.8	84
13	Nutrients drive transcriptional changes that maintain metabolic homeostasis but alter genome architecture in <i>Microcystis</i> . <i>ISME Journal</i> , 2014, 8, 2080-2092.	9.8	84
14	Urea Is Both a Carbon and Nitrogen Source for <i>Microcystis aeruginosa</i> : Tracking ¹³ C Incorporation at Bloom pH Conditions. <i>Frontiers in Microbiology</i> , 2019, 10, 1064.	3.5	75
15	Safety and pharmacokinetics of naringenin: A randomized, controlled, single-ascending-dose clinical trial. <i>Diabetes, Obesity and Metabolism</i> , 2020, 22, 91-98.	4.4	74
16	Autoinducer-2 influences interactions amongst pioneer colonizing streptococci in oral biofilms. <i>Microbiology (United Kingdom)</i> , 2012, 158, 1783-1795.	1.8	67
17	Pancreatic Î²-Cell Death in Response to Pro-Inflammatory Cytokines Is Distinct from Genuine Apoptosis. <i>PLoS ONE</i> , 2011, 6, e22485.	2.5	65
18	Integration of the Second Messenger c-di-GMP into the Chemotactic Signaling Pathway. <i>MBio</i> , 2013, 4, e00001-13.	4.1	59

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19	The corrinoid cofactor of reductive dehalogenases affects dechlorination rates and extents in organohalide-respiring <i>Dehalococcoides mccartyi</i> . ISME Journal, 2016, 10, 1092-1101.	9.8	59
20	Purinyl-cobamide is a native prosthetic group of reductive dehalogenases. Nature Chemical Biology, 2018, 14, 8-14.	8.0	58
21	Choline and Choline Metabolite Patterns and Associations in Blood and Milk during Lactation in Dairy Cows. PLoS ONE, 2014, 9, e103412.	2.5	58
22	Seasonally Relevant Cool Temperatures Interact with N Chemistry to Increase Microcystins Produced in Lab Cultures of <i>Microcystis aeruginosa</i> NIES-843. Environmental Science & Technology, 2018, 52, 4127-4136.	10.0	55
23	Toward More Transparent and Reproducible Omics Studies Through a Common Metadata Checklist and Data Publications. OMICS A Journal of Integrative Biology, 2014, 18, 10-14.	2.0	54
24	Alcohol-associated intestinal dysbiosis impairs pulmonary host defense against <i>Klebsiella pneumoniae</i> . PLoS Pathogens, 2017, 13, e1006426.	4.7	54
25	Evolution of the Toxins Muscarine and Psilocybin in a Family of Mushroom-Forming Fungi. PLoS ONE, 2013, 8, e64646.	2.5	52
26	Autoinducer-2 is produced in saliva-fed flow conditions relevant to natural oral biofilms. Journal of Applied Microbiology, 2008, 105, 2096-2103.	3.1	50
27	Identification of 4-Hydroxycumyl Alcohol As the Major MnO ₂ -Mediated Bisphenol A Transformation Product and Evaluation of Its Environmental Fate. Environmental Science & Technology, 2015, 49, 6214-6221.	10.0	46
28	Functional Characteristics of the Gut Microbiome in C57BL/6 Mice Differentially Susceptible to <i>Plasmodium yoelii</i> . Frontiers in Microbiology, 2016, 7, 1520.	3.5	46
29	Two-dimensional liquid chromatography/mass spectrometry/mass spectrometry separation of water-soluble metabolites. Journal of Chromatography A, 2010, 1217, 8161-8166.	3.7	42
30	Metabolomic analysis of mouse prefrontal cortex reveals upregulated analytes during wakefulness compared to sleep. Scientific Reports, 2018, 8, 11225.	3.3	40
31	Boron Binding with the Quorum Sensing Signal AI-2 and Analogues. Organic Letters, 2004, 6, 2635-2637.	4.6	39
32	Serum metabolites associated with feed efficiency in black angus steers. Metabolomics, 2017, 13, 1.	3.0	39
33	Exogenous Fatty Acids Protect <i>Enterococcus faecalis</i> from Daptomycin-Induced Membrane Stress Independently of the Response Regulator LiaR. Applied and Environmental Microbiology, 2016, 82, 4410-4420.	3.1	38
34	Integrated proteomics and metabolomics suggests symbiotic metabolism and multimodal regulation in a fungal- <i>endobacterial</i> system. Environmental Microbiology, 2017, 19, 1041-1053.	3.8	38
35	Direct Quantitation of the Quorum Sensing Signal, Autoinducer-2, in Clinically Relevant Samples by Liquid Chromatography-Tandem Mass Spectrometry. Analytical Chemistry, 2009, 81, 6374-6381.	6.5	37
36	Rumen fluid metabolomics of beef steers differing in feed efficiency. Metabolomics, 2020, 16, 23.	3.0	37

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37	Impacts of Glutaraldehyde on Microbial Community Structure and Degradation Potential in Streams Impacted by Hydraulic Fracturing. <i>Environmental Science & Technology</i> , 2018, 52, 5989-5999.	10.0	35
38	Rumen Bacteria and Serum Metabolites Predictive of Feed Efficiency Phenotypes in Beef Cattle. <i>Scientific Reports</i> , 2019, 9, 19265.	3.3	34
39	MetabR: an R script for linear model analysis of quantitative metabolomic data. <i>BMC Research Notes</i> , 2012, 5, 596.	1.4	33
40	Quorum Sensing Signal Production and Microbial Interactions in a Polymicrobial Disease of Corals and the Coral Surface Mucopolysaccharide Layer. <i>PLoS ONE</i> , 2014, 9, e108541.	2.5	30
41	Differential Sensitivity to <i>Plasmodium yoelii</i> Infection in C57BL/6 Mice Impacts Gut-Liver Axis Homeostasis. <i>Scientific Reports</i> , 2019, 9, 3472.	3.3	30
42	Metabolomics reveals distinct neurochemical profiles associated with stress resilience. <i>Neurobiology of Stress</i> , 2017, 7, 103-112.	4.0	25
43	Molecular and metabolic profiles suggest that increased lipid catabolism in adipose tissue contributes to leanness in domestic chickens. <i>Physiological Genomics</i> , 2014, 46, 315-327.	2.3	23
44	Role of phosphatidylserine synthase in shaping the phospholipidome of <i>Candida albicans</i> . <i>FEMS Yeast Research</i> , 2017, 17, .	2.3	22
45	Extensive metabolic remodeling after limiting mitochondrial lipid burden is consistent with an improved metabolic health profile. <i>Journal of Biological Chemistry</i> , 2019, 294, 12313-12327.	3.4	22
46	Proteogenomics Reveals Novel Reductive Dehalogenases and Methyltransferases Expressed during Anaerobic Dichloromethane Metabolism. <i>Applied and Environmental Microbiology</i> , 2019, 85, .	3.1	21
47	Mineralization versus fermentation: evidence for two distinct anaerobic bacterial degradation pathways for dichloromethane. <i>ISME Journal</i> , 2020, 14, 959-970.	9.8	21
48	<i>Pseudomonas</i> sp. Strain 273 Degrades Fluorinated Alkanes. <i>Environmental Science & Technology</i> , 2020, 54, 14994-15003.	10.0	21
49	Detection and Quantitation of Bacterial Acylhomoserine Lactone Quorum Sensing Molecules via Liquid Chromatography-Isotope Dilution Tandem Mass Spectrometry. <i>Analytical Chemistry</i> , 2012, 84, 1243-1252.	6.5	19
50	<i>Phaeobacter</i> sp. Strain Y4I Utilizes Two Separate Cell-to-Cell Communication Systems To Regulate Production of the Antimicrobial Indigoidine. <i>Applied and Environmental Microbiology</i> , 2015, 81, 1417-1425.	3.1	19
51	Untargeted metabolomics confirms and extends the understanding of the impact of aminoimidazole carboxamide ribotide (AICAR) in the metabolic network of <i>Salmonella enterica</i> . <i>Microbial Cell</i> , 2018, 5, 74-87.	3.2	19
52	Expanding lipidomics coverage: effective ultra performance liquid chromatography-high resolution mass spectrometer methods for detection and quantitation of cardiolipin, phosphatidylglycerol, and lysyl-phosphatidylglycerol. <i>Metabolomics</i> , 2019, 15, 53.	3.0	18
53	Muscle Metabolome Profiles in Woody Breast-(un)Affected Broilers: Effects of Quantum Blue Phytase-Enriched Diet. <i>Frontiers in Veterinary Science</i> , 2020, 7, 458.	2.2	18
54	Nitrogen flux into metabolites and microcystins changes in response to different nitrogen sources in <i>Microcystis aeruginosa</i> . <i>Environmental Microbiology</i> , 2020, 22, 2419-2431.	3.8	18

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55	Tissue Level Diet and Sex-by-Diet Interactions Reveal Unique Metabolite and Clustering Profiles Using Untargeted Liquid Chromatography–Mass Spectrometry on Adipose, Skeletal Muscle, and Liver Tissue in C57BL/6J Mice. <i>Journal of Proteome Research</i> , 2018, 17, 1077-1090.	3.7	17
56	Metabolome changes are induced in the arbuscular mycorrhizal fungus <i>Gigaspora margarita</i> by germination and by its bacterial endosymbiont. <i>Mycorrhiza</i> , 2018, 28, 421-433.	2.8	17
57	Ecology and Physiology of the Pathogenic Cyanobacterium <i>Roseofilum reptotaenium</i> . <i>Life</i> , 2014, 4, 968-987.	2.4	16
58	Elucidating Duramycin™s Bacterial Selectivity and Mode of Action on the Bacterial Cell Envelope. <i>Frontiers in Microbiology</i> , 2018, 9, 219.	3.5	14
59	One week of continuous corticosterone exposure impairs hepatic metabolic flexibility, promotes islet β^2 -cell proliferation, and reduces physical activity in male C57BL/6 mice. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , 2019, 195, 105468.	2.5	14
60	Loss of carotenoids from membranes of <i>Pantoea</i> sp. YR343 results in altered lipid composition and changes in membrane biophysical properties. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2019, 1861, 1338-1345.	2.6	14
61	<i>Enterococcus faecalis</i> Readily Adapts Membrane Phospholipid Composition to Environmental and Genetic Perturbation. <i>Frontiers in Microbiology</i> , 2021, 12, 616045.	3.5	14
62	Comparative Decomposition of Humans and Pigs: Soil Biogeochemistry, Microbial Activity and Metabolomic Profiles. <i>Frontiers in Microbiology</i> , 2020, 11, 608856.	3.5	13
63	Correlation between Pre-Ovulatory Follicle Diameter and Follicular Fluid Metabolome Profiles in Lactating Beef Cows. <i>Metabolites</i> , 2021, 11, 623.	2.9	13
64	Discovery and Functional Characterization of a Yeast Sugar Alcohol Phosphatase. <i>ACS Chemical Biology</i> , 2018, 13, 3011-3020.	3.4	12
65	Carbon Fate and Flux in <i>Prochlorococcus</i> under Nitrogen Limitation. <i>MSystems</i> , 2019, 4, .	3.8	12
66	Midgut metabolomic profiling of fall armyworm (<i>Spodoptera frugiperda</i>) with field-evolved resistance to Cry1F corn. <i>Insect Biochemistry and Molecular Biology</i> , 2019, 106, 1-9.	2.7	12
67	Establishing a Quantitative Definition of Quorum Sensing Provides Insight into the Information Content of the Autoinducer Signals in <i>Vibrio harveyi</i> and <i>Escherichia coli</i> . <i>Biochemistry</i> , 2010, 49, 5621-5623.	2.5	11
68	Root-Associated <i>Streptomyces</i> Isolates Harboring <i>melC</i> Genes Demonstrate Enhanced Plant Colonization. <i>Phytobiomes Journal</i> , 2019, 3, 165-176.	2.7	11
69	A biomimetic synthesis of (α)-ascorbyl phloroglucinol and studies toward the construction of ascorbyl-modified catechin natural products and analogues. <i>Tetrahedron</i> , 2011, 67, 9265-9272.	1.9	10
70	Design and Evaluation of a Gas Chromatograph-Atmospheric Pressure Chemical Ionization Interface for an Exactive Orbitrap Mass Spectrometer. <i>Journal of the American Society for Mass Spectrometry</i> , 2019, 30, 2369-2379.	2.8	10
71	<i>Pseudomonas</i> sp. Strain 273 Incorporates Organofluorine into the Lipid Bilayer during Growth with Fluorinated Alkanes. <i>Environmental Science & Technology</i> , 2022, 56, 8155-8166.	10.0	10
72	Thiobenzothiazole-modified Hydrocortisones Display Anti-inflammatory Activity with Reduced Impact on Islet β^2 -Cell Function. <i>Journal of Biological Chemistry</i> , 2015, 290, 13401-13416.	3.4	9

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73	Elevated Temperature Enhances Short to Medium Chain Acyl Homoserine Lactone Production by Black Band Disease Associated Vibrios. <i>FEMS Microbiology Ecology</i> , 2017, 93, fix005.	2.7	9
74	Bifunctional amyloid-reactive peptide promotes binding of antibody 11-1F4 to diverse amyloid types and enhances therapeutic efficacy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E10839-E10848.	7.1	9
75	Integrated Proteomics and Lipidomics Reveal That the Swarming Motility of <i>Paenibacillus polymyxa</i> Is Characterized by Phospholipid Modification, Surfactant Deployment, and Flagellar Specialization Relative to Swimming Motility. <i>Frontiers in Microbiology</i> , 2019, 10, 2594.	3.5	9
76	Trait Energy and Fatigue May Be Connected to Gut Bacteria among Young Physically Active Adults: An Exploratory Study. <i>Nutrients</i> , 2022, 14, 466.	4.1	9
77	Postmortem Skeletal Microbial Community Composition and Function in Buried Human Remains. <i>MSystems</i> , 2022, 7, e0004122.	3.8	9
78	Maternal consumption of fish oil programs reduced adiposity in broiler chicks. <i>Scientific Reports</i> , 2017, 7, 13129.	3.3	8
79	Impact of Fatty-Acid Labeling of <i>Bacillus subtilis</i> Membranes on the Cellular Lipidome and Proteome. <i>Frontiers in Microbiology</i> , 2020, 11, 914.	3.5	8
80	Stability of Gas-Phase Tartaric Acid Anions Investigated by Quantum Chemistry, Mass Spectrometry, and Infrared Spectroscopy. <i>Journal of Physical Chemistry A</i> , 2012, 116, 4789-4800.	2.5	7
81	4-Methylphenol produced in freshwater sediment microcosms is not a bisphenol A metabolite. <i>Chemosphere</i> , 2014, 117, 521-526.	8.2	7
82	Metabolomics Approach in the Study of the Well-Defined Polyherbal Preparation Zyflamend. <i>Journal of Medicinal Food</i> , 2018, 21, 306-316.	1.5	7
83	Populations of <i>Populus angustifolia</i> have evolved distinct metabolic profiles that influence their surrounding soil. <i>Plant and Soil</i> , 2020, 448, 399-411.	3.7	7
84	Removal of peptidoglycan and inhibition of active cellular processes leads to daptomycin tolerance in <i>Enterococcus faecalis</i> . <i>PLoS ONE</i> , 2021, 16, e0254796.	2.5	7
85	Multiomics Evaluation of Human Fat-Derived Mesenchymal Stem Cells on an Osteobiologic Nanocomposite. <i>BioResearch Open Access</i> , 2020, 9, 37-50.	2.6	6
86	Preovulatory follicular fluid and serum metabolome profiles in lactating beef cows with thin, moderate, and obese body condition. <i>Journal of Animal Science</i> , 2022, 100, .	0.5	6
87	Isoflurane anesthesia disrupts the cortical metabolome. <i>Journal of Neurophysiology</i> , 2020, 124, 2012-2021.	1.8	5
88	The Rid family member RutC of <i>Escherichia coli</i> is a 3-aminoacrylate deaminase. <i>Journal of Biological Chemistry</i> , 2021, 296, 100651.	3.4	5
89	Preovulatory serum estradiol concentration is positively associated with oocyte ATP and follicular fluid metabolite abundance in lactating beef cattle. <i>Journal of Animal Science</i> , 2022, 100, .	0.5	5
90	Structure and Stability of Phenoxide and Fluorophenoxide Anions Investigated with Infrared Multiple-Photon Dissociation and Detachment Spectroscopy and Tandem Mass Spectrometry. <i>Journal of Physical Chemistry A</i> , 2014, 118, 8597-8605.	2.5	4

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91	Microcystin-LR does not induce alterations to transcriptomic or metabolomic profiles of a model heterotrophic bacterium. PLoS ONE, 2017, 12, e0189608.	2.5	4
92	Changes in Microbiome Activity and Sporadic Viral Infection Help Explain Observed Variability in Microcosm Studies. Frontiers in Microbiology, 2022, 13, 809989.	3.5	4
93	Duodenal Metabolic Profile Changes in Heat-Stressed Broilers. Animals, 2022, 12, 1337.	2.3	4
94	Novobiocin and peptide analogs of $\hat{\iota}$ -factor are positive allosteric modulators of the yeast G protein-coupled receptor Ste2p. Biochimica Et Biophysica Acta - Biomembranes, 2015, 1848, 916-924.	2.6	3
95	Potent Anti-Inflammatory, Arylpyrazole-Based Glucocorticoid Receptor Agonists That Do Not Impair Insulin Secretion. ACS Medicinal Chemistry Letters, 2021, 12, 1568-1577.	2.8	3
96	Apex Predator Nematodes and Meso-Predator Bacteria Consume Their Basal Insect Prey through Discrete Stages of Chemical Transformations. MSystems, 2022, 7, e0031222.	3.8	3
97	Gut Microbiome and Metabolome Variations in Self-Identified Muscle Builders Who Report Using Protein Supplements. Nutrients, 2022, 14, 533.	4.1	2
98	Cross-Omics Analysis of Fenugreek Supplementation Reveals Beneficial Effects Are Caused by Gut Microbiome Changes Not Mammalian Host Physiology. International Journal of Molecular Sciences, 2022, 23, 3654.	4.1	2
99	Avian metabolomics. , 2022, , 49-63.		1
100	Transcriptomic and Metabolomic Profiling of Chicken Adipose Tissue: Dual Purpose Benefit for Human Obesity and Poultry Production. Current Metabolomics, 2018, 6, 96-102.	0.5	0
101	Independent and Interactive Effects of Genetic Background and Sex on Tissue Metabolomes of Adipose, Skeletal Muscle, and Liver in Mice. Metabolites, 2022, 12, 337.	2.9	0