

# Ricardo Da Silva

## List of Publications by Year in descending order

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57  
papers

19,017  
citations

159358  
30  
h-index

174990  
52  
g-index

69  
all docs

69  
docs citations

69  
times ranked

22624  
citing authors

#	ARTICLE	IF	CITATIONS
1	Reproducible, interactive, scalable and extensible microbiome data science using QIIME 2. <i>Nature Biotechnology</i> , 2019, 37, 852-857.	9.4	11,167
2	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
3	Feature-based molecular networking in the GNPS analysis environment. <i>Nature Methods</i> , 2020, 17, 905-908.	9.0	650
4	American Gut: an Open Platform for Citizen Science Microbiome Research. <i>MSystems</i> , 2018, 3, .	1.7	604
5	Illuminating the dark matter in metabolomics. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 12549-12550.	3.3	387
6	Global chemical effects of the microbiome include new bile-acid conjugations. <i>Nature</i> , 2020, 579, 123-129.	13.7	316
7	Propagating annotations of molecular networks using in silico fragmentation. <i>PLoS Computational Biology</i> , 2018, 14, e1006089.	1.5	242
8	Bioactivity-Based Molecular Networking for the Discovery of Drug Leads in Natural Product Bioassay-Guided Fractionation. <i>Journal of Natural Products</i> , 2018, 81, 758-767.	1.5	237
9	Mass spectrometry searches using MASST. <i>Nature Biotechnology</i> , 2020, 38, 23-26.	9.4	160
10	Mass spectrometry in plant metabolomics strategies: from analytical platforms to data acquisition and processing. <i>Natural Product Reports</i> , 2014, 31, 784.	5.2	149
11	Global chemical analysis of biology by mass spectrometry. <i>Nature Reviews Chemistry</i> , 2017, 1, .	13.8	146
12	Three-Dimensional Microbiome and Metabolome Cartography of a Diseased Human Lung. <i>Cell Host and Microbe</i> , 2017, 22, 705-716.e4.	5.1	111
13	Prioritizing Natural Product Diversity in a Collection of 146 Bacterial Strains Based on Growth and Extraction Protocols. <i>Journal of Natural Products</i> , 2017, 80, 588-597.	1.5	105
14	The impact of skin care products on skin chemistry and microbiome dynamics. <i>BMC Biology</i> , 2019, 17, 47.	1.7	101
15	Convergent evolution of pain-inducing defensive venom components in spitting cobras. <i>Science</i> , 2021, 371, 386-390.	6.0	96
16	High-Resolution Liquid Chromatography Tandem Mass Spectrometry Enables Large Scale Molecular Characterization of Dissolved Organic Matter. <i>Frontiers in Marine Science</i> , 2017, 4, .	1.2	94
17	Coupling Targeted and Untargeted Mass Spectrometry for Metabolome-Microbiome-Wide Association Studies of Human Fecal Samples. <i>Analytical Chemistry</i> , 2017, 89, 7549-7559.	3.2	62
18	Comprehensive mass spectrometry-guided phenotyping of plant specialized metabolites reveals metabolic diversity in the cosmopolitan plant family Rhamnaceae. <i>Plant Journal</i> , 2019, 98, 1134-1144.	2.8	59

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19	Queen signals in a stingless bee: suppression of worker ovary activation and spatial distribution of active compounds. <i>Scientific Reports</i> , 2015, 4, 7449.	1.6	55
20	Lifestyle chemistries from phones for individual profiling. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E7645-E7654.	3.3	55
21	From Sample to Multi-Omics Conclusions in under 48 Hours. <i>MSystems</i> , 2016, 1, .	1.7	53
22	Neutrophilic proteolysis in the cystic fibrosis lung correlates with a pathogenic microbiome. <i>Microbiome</i> , 2019, 7, 23.	4.9	53
23	Untargeted mass spectrometry-based metabolomics approach unveils molecular changes in raw and processed foods and beverages. <i>Food Chemistry</i> , 2020, 302, 125290.	4.2	52
24	ProbMetab: an <i>R</i> package for Bayesian probabilistic annotation of LC-MS-based metabolomics. <i>Bioinformatics</i> , 2014, 30, 1336-1337.	1.8	51
25	Targeted Isolation of Neuroprotective Dicoumaroyl Neolignans and Lignans from <i>Sageretia theezans</i> Using <i>in Silico</i> Molecular Network Annotation Propagation-Based Dereplication. <i>Journal of Natural Products</i> , 2018, 81, 1819-1828.	1.5	44
26	Niche partitioning of a pathogenic microbiome driven by chemical gradients. <i>Science Advances</i> , 2018, 4, eaau1908.	4.7	40
27	Assessing Specialized Metabolite Diversity in the Cosmopolitan Plant Genus <i>Euphorbia</i> L.. <i>Frontiers in Plant Science</i> , 2019, 10, 846.	1.7	40
28	Distinct photo-oxidation-induced cell death pathways lead to selective killing of human breast cancer cells. <i>Cell Death and Disease</i> , 2020, 11, 1070.	2.7	34
29	Conformity assessment of multicomponent materials or objects: Risk of false decisions due to measurement uncertainty – A case study of denatured alcohols. <i>Talanta</i> , 2017, 164, 189-195.	2.9	33
30	Risk of false decision on conformity of a multicomponent material when test results of the components' content are correlated. <i>Talanta</i> , 2017, 174, 789-796.	2.9	31
31	Application of MALDI Mass Spectrometry in Natural Products Analysis. <i>Planta Medica</i> , 2016, 82, 671-689.	0.7	30
32	Risk of a false decision on conformity of an environmental compartment due to measurement uncertainty of concentrations of two or more pollutants. <i>Chemosphere</i> , 2018, 202, 165-176.	4.2	26
33	Investigation of Premyrsinane and Myrsinane Esters in <i>Euphorbia cupanii</i> and <i>Euphorbia pithyusa</i> with <i>MS2LDA</i> and Combinatorial Molecular Network Annotation Propagation. <i>Journal of Natural Products</i> , 2019, 82, 1459-1470.	1.5	24
34	Molecular and Microbial Microenvironments in Chronically Diseased Lungs Associated with Cystic Fibrosis. <i>MSystems</i> , 2019, 4, .	1.7	23
35	A Multi-Omics Characterization of the Natural Product Potential of Tropical Filamentous Marine Cyanobacteria. <i>Marine Drugs</i> , 2021, 19, 20.	2.2	19
36	Total risk of a false decision on conformity of an alloy due to measurement uncertainty and correlation of test results. <i>Talanta</i> , 2018, 189, 666-674.	2.9	18

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37	Initial Development toward Non-Invasive Drug Monitoring via Untargeted Mass Spectrometric Analysis of Human Skin. <i>Analytical Chemistry</i> , 2019, 91, 8062-8069.	3.2	17
38	In silico annotation of discriminative markers of three <i>Zanthoxylum</i> species using molecular network derived annotation propagation. <i>Food Chemistry</i> , 2019, 295, 368-376.	4.2	17
39	Chemical profiling of two congeneric sea mat corals along the Brazilian coast: adaptive and functional patterns. <i>Chemical Communications</i> , 2018, 54, 1952-1955.	2.2	16
40	Assessing specialized metabolite diversity of <i>Alnus</i> species by a digitized LC-MS/MS data analysis workflow. <i>Phytochemistry</i> , 2020, 173, 112292.	1.4	15
41	Differences in Cystic Fibrosis-Associated <i>Burkholderia</i> spp. Bacteria Metabolomes after Exposure to the Antibiotic Trimethoprim. <i>ACS Infectious Diseases</i> , 2020, 6, 1154-1168.	1.8	14
42	Computational Removal of Undesired Mass Spectral Features Possessing Repeat Units via a Kendrick Mass Filter. <i>Journal of the American Society for Mass Spectrometry</i> , 2019, 30, 268-277.	1.2	12
43	Microbial and Nonvolatile Chemical Diversities of Chinese Dark Teas Are Differed by Latitude and Pile Fermentation. <i>Journal of Agricultural and Food Chemistry</i> , 2022, 70, 5701-5714.	2.4	11
44	A metabolomic protocol for plant systematics by matrix-assisted laser-desorption/ionization time-of-flight mass spectrometry. <i>Analytica Chimica Acta</i> , 2015, 859, 46-58.	2.6	9
45	A comparative venomomic fingerprinting approach reveals that galling and non-galling fig wasp species have different venom profiles. <i>PLoS ONE</i> , 2018, 13, e0207051.	1.1	9
46	IUPAC/CITAC Guide: Evaluation of risks of false decisions in conformity assessment of a multicomponent material or object due to measurement uncertainty (IUPAC Technical Report). <i>Pure and Applied Chemistry</i> , 2021, 93, 113-154.	0.9	9
47	Sphingolipids signature in plasma and tissue as diagnostic and prognostic tools in oral squamous cell carcinoma. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2022, 1867, 159057.	1.2	7
48	How many shades of grey are in conformity assessment due to measurement uncertainty?. <i>Journal of Physics: Conference Series</i> , 2019, 1420, 012001.	0.3	5
49	REDES MOLECULARES: UMA ANÁLISE SOBRE ANOTAÇÕES E DESCOBERTA DE NOVOS ATIVOS. <i>Química Nova</i> , 0, , .	0.3	4
50	Time-Scale Shifting of Volatile Semiochemical Levels in Wild Type <i>Lychnophora ericoides</i> (Brazilian) Tj ETQqO 0 0 rgBT/Overlock 10 Tf 50	0.7	3
51	Metabolomics Analysis of Bacterial Pathogen <i>Burkholderia thailandensis</i> and Mammalian Host Cells in Co-culture. <i>ACS Infectious Diseases</i> , 2022, 8, 1646-1662.	1.8	3
52	Chemical Gradients of Plant Substrates in an <i>Atta texana</i> Fungus Garden. <i>MSystems</i> , 2021, 6, e0060121.	1.7	2
53	Metabolic Profiling of Interspecies Interactions During Sessile Bacterial Cultivation Reveals Growth and Sporulation Induction in <i>Paenibacillus amylolyticus</i> in Response to <i>Xanthomonas retroflexus</i> . <i>Frontiers in Cellular and Infection Microbiology</i> , 2022, 12, 805473.	1.8	1
54	CHAPTER 3. Metabolomics. <i>Chemical Biology</i> , 0, , 57-81.	0.1	1

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55	Three Dimensional Cartography of Microbiome and Metabolome Data onto Radiological Images of the Human Lung. SSRN Electronic Journal, 0, , .	0.4	0
56	<span>Integrated metabolome mining and annotation pipeline accelerates elucidation and prioritisation of specialised metabolites</span>. , 0, , .		0
57	CHAPTER 10. Perspectives for the Future. Chemical Biology, 0, , 264-287.	0.1	0