

# Marianna Lucio

## List of Publications by Year in descending order

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79  
papers

4,801  
citations

126907

33  
h-index

98798

67  
g-index

83  
all docs

83  
docs citations

83  
times ranked

8367  
citing authors

#	ARTICLE	IF	CITATIONS
1	A Pyrosequencing Study in Twins Shows That Gastrointestinal Microbial Profiles Vary With Inflammatory Bowel Disease Phenotypes. <i>Gastroenterology</i> , 2010, 139, 1844-1854.e1.	1.3	916
2	Metabolomics Reveals Metabolic Biomarkers of Crohn's Disease. <i>PLoS ONE</i> , 2009, 4, e6386.	2.5	429
3	Oral versus intravenous iron replacement therapy distinctly alters the gut microbiota and metabolome in patients with IBD. <i>Cut</i> , 2017, 66, 863-871.	12.1	237
4	Preanalytical Aspects and Sample Quality Assessment in Metabolomics Studies of Human Blood. <i>Clinical Chemistry</i> , 2013, 59, 833-845.	3.2	225
5	Impact of Dietary Resistant Starch on the Human Gut Microbiome, Metaproteome, and Metabolome. <i>MBio</i> , 2017, 8, .	4.1	219
6	Metabolic Functions of Gut Microbes Associate With Efficacy of Tumor Necrosis Factor Antagonists in Patients With Inflammatory Bowel Diseases. <i>Gastroenterology</i> , 2019, 157, 1279-1292.e11.	1.3	180
7	The chemodiversity of wines can reveal a metabo-geography expression of cooperage oak wood. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 9174-9179.	7.1	141
8	Randomized controlled trial on the impact of early-life intervention with bifidobacteria on the healthy infant fecal microbiota and metabolome. <i>American Journal of Clinical Nutrition</i> , 2017, 106, 1274-1286.	4.7	124
9	Proposed Guidelines for Solid Phase Extraction of Suwannee River Dissolved Organic Matter. <i>Analytical Chemistry</i> , 2016, 88, 6680-6688.	6.5	118
10	Dissolved organic matter in sea spray: a transfer study from marine surface water to aerosols. <i>Biogeosciences</i> , 2012, 9, 1571-1582.	3.3	117
11	Metabolic evidence for biogeographic isolation of the extremophilic bacterium <i>Salinibacter ruber</i> . <i>ISME Journal</i> , 2008, 2, 242-253.	9.8	108
12	Distinct signatures of host microbial meta-metabolome and gut microbiome in two C57BL/6 strains under high-fat diet. <i>ISME Journal</i> , 2014, 8, 2380-2396.	9.8	106
13	Unraveling different chemical fingerprints between a champagne wine and its aerosols. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 16545-16549.	7.1	104
14	How representative are dissolved organic matter (DOM) extracts? A comprehensive study of sorbent selectivity for DOM isolation. <i>Water Research</i> , 2017, 116, 316-323.	11.3	98
15	Metabolomics of transgenic maize combining Fourier transform-ion cyclotron resonance-mass spectrometry, capillary electrophoresis-mass spectrometry and pressurized liquid extraction. <i>Journal of Chromatography A</i> , 2009, 1216, 7314-7323.	3.7	92
16	Dynamic regulation of N-acetyl-homoserine lactone production and degradation in <i>Pseudomonas putida</i> IsoF. <i>FEMS Microbiology Ecology</i> , 2010, 72, 22-34.	2.7	81
17	Fine-scale evolution: genomic, phenotypic and ecological differentiation in two coexisting <i>Salinibacter ruber</i> strains. <i>ISME Journal</i> , 2010, 4, 882-895.	9.8	81
18	GC/MS-based metabolomics reveals fatty acid biosynthesis and cholesterol metabolism in cell lines infected with influenza A virus. <i>Talanta</i> , 2010, 83, 262-268.	5.5	81

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19	How Subtle Is the "Terroir" Effect? Chemistry-Related Signatures of Two "Climats de Bourgogne". PLoS ONE, 2014, 9, e97615.	2.5	71
20	Metabolomic investigations in cerebrospinal fluid of Parkinson's disease. PLoS ONE, 2018, 13, e0208752.	2.5	62
21	Insulin Sensitivity Is Reflected by Characteristic Metabolic Fingerprints - A Fourier Transform Mass Spectrometric Non-Targeted Metabolomics Approach. PLoS ONE, 2010, 5, e13317.	2.5	58
22	High Metabolomic Microdiversity within Co-Occurring Isolates of the Extremely Halophilic Bacterium <i>Salinibacter ruber</i> . PLoS ONE, 2013, 8, e64701.	2.5	48
23	Chemical messages in 170-year-old champagne bottles from the Baltic Sea: Revealing tastes from the past. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 5893-5898.	7.1	47
24	Previously unknown class of metalorganic compounds revealed in meteorites. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 2819-2824.	7.1	47
25	High-field FT-ICR mass spectrometry and NMR spectroscopy to characterize DOM removal through a nanofiltration pilot plant. Water Research, 2014, 67, 154-165.	11.3	45
26	Levels of aqueous humor trace elements in patients with open-angle glaucoma. Journal of Trace Elements in Medicine and Biology, 2018, 45, 150-155.	3.0	43
27	Ultrahigh-resolution FT-ICR mass spectrometry for molecular characterisation of pressurised hot water-extractable organic matter in soils. Biogeochemistry, 2016, 128, 307-326.	3.5	42
28	Solutions for Low and High Accuracy Mass Spectrometric Data Matching: A Data-Driven Annotation Strategy in Nontargeted Metabolomics. Analytical Chemistry, 2015, 87, 8917-8924.	6.5	41
29	Systems chemical analytics: introduction to the challenges of chemical complexity analysis. Faraday Discussions, 2019, 218, 9-28.	3.2	40
30	Manganese speciation in paired serum and CSF samples using SEC-DRC-ICP-MS and CE-ICP-DRC-MS. Analytical and Bioanalytical Chemistry, 2013, 405, 2301-2309.	3.7	39
31	Mass spectrometry-based phytochemical screening for hypoglycemic activity of Fagioli di Sarconi beans ( <i>Phaseolus vulgaris</i> L.). Food Chemistry, 2018, 242, 497-504.	8.2	39
32	OCT Angiography: Measurement of Retinal Macular Microvasculature with Spectralis II OCT Angiography "Reliability and Reproducibility. Ophthalmologica, 2020, 243, 75-84.	1.9	39
33	Long COVID: Association of Functional Autoantibodies against G-Protein-Coupled Receptors with an Impaired Retinal Microcirculation. International Journal of Molecular Sciences, 2022, 23, 7209.	4.1	39
34	Expressing Forest Origins in the Chemical Composition of Cooperage Oak Woods and Corresponding Wines by Using FTICR-MS. Chemistry - A European Journal, 2009, 15, 600-611.	3.3	34
35	Water-extractable organic matter linked to soil physico-chemistry and microbiology at the regional scale. Soil Biology and Biochemistry, 2015, 84, 158-167.	8.8	33
36	Doping Control Using High and Ultra-High Resolution Mass Spectrometry Based Non-Targeted Metabolomics-A Case Study of Salbutamol and Budesonide Abuse. PLoS ONE, 2013, 8, e74584.	2.5	30

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37	Importance of Sulfur-Containing Metabolites in Discriminating Fecal Extracts between Normal and Type-2 Diabetic Mice. <i>Journal of Proteome Research</i> , 2014, 13, 4220-4231.	3.7	28
38	DI-HCR-FT-MS-based high-throughput deep metabolotyping: a case study of the <i>Caenorhabditis elegans</i> – <i>Pseudomonas aeruginosa</i> infection model. <i>Analytical and Bioanalytical Chemistry</i> , 2015, 407, 1059-1073.	3.7	26
39	New molecular evidence of wine yeast-bacteria interaction unraveled by non-targeted exometabolomic profiling. <i>Metabolomics</i> , 2016, 12, 1.	3.0	26
40	Comprehensive structure-selective characterization of dissolved organic matter by reducing molecular complexity and increasing analytical dimensions. <i>Water Research</i> , 2016, 106, 477-487.	11.3	24
41	Species fractionation in a case-control study concerning Parkinson's disease: Cu-amino acids discriminate CSF of PD from controls. <i>Journal of Trace Elements in Medicine and Biology</i> , 2018, 49, 164-170.	3.0	24
42	Retinal Microcirculation as a Correlate of a Systemic Capillary Impairment After Severe Acute Respiratory Syndrome Coronavirus 2 Infection. <i>Frontiers in Medicine</i> , 2021, 8, 676554.	2.6	24
43	Metabolic Fingerprint of PS3-Induced Resistance of Grapevine Leaves against <i>Plasmopara viticola</i> Revealed Differences in Elicitor-Triggered Defenses. <i>Frontiers in Plant Science</i> , 2017, 08, 101.	3.6	23
44	Changes in Brain Metallome/Metabolome Pattern due to a Single i.v. Injection of Manganese in Rats. <i>PLoS ONE</i> , 2015, 10, e0138270.	2.5	23
45	Response to adverse conditions in two strains of the extremely halophilic species <i>Salinibacter ruber</i> . <i>Extremophiles</i> , 2011, 15, 379-389.	2.3	22
46	MetICA: independent component analysis for high-resolution mass-spectrometry based non-targeted metabolomics. <i>BMC Bioinformatics</i> , 2016, 17, 114.	2.6	22
47	Photolysis Pathway of Imazapic in Aqueous Solution: Ultrahigh Resolution Mass Spectrometry Analysis of Intermediates. <i>Journal of Agricultural and Food Chemistry</i> , 2007, 55, 9936-9943.	5.2	21
48	Longitudinal Profiles of Dietary and Microbial Metabolites in Formula- and Breastfed Infants. <i>Frontiers in Molecular Biosciences</i> , 2021, 8, 660456.	3.5	19
49	Diverse Serum Manganese Species Affect Brain Metabolites Depending on Exposure Conditions. <i>Chemical Research in Toxicology</i> , 2015, 28, 1434-1442.	3.3	18
50	Association between arsenic exposure and biomarkers of type 2 diabetes mellitus in a Croatian population: A comparative observational pilot study. <i>Science of the Total Environment</i> , 2020, 720, 137575.	8.0	18
51	Levels of serum trace elements in patients with primary open-angle glaucoma. <i>Journal of Trace Elements in Medicine and Biology</i> , 2019, 53, 129-134.	3.0	16
52	OCT-angiography: Regional reduced macula microcirculation in ocular hypertensive and pre-perimetric glaucoma patients. <i>PLoS ONE</i> , 2021, 16, e0246469.	2.5	16
53	An approach for manganese biomonitoring using a manganese carrier switch in serum from transferrin to citrate at slightly elevated manganese concentration. <i>Journal of Trace Elements in Medicine and Biology</i> , 2015, 32, 145-154.	3.0	15
54	Microbiome-Triggered Transformations of Trace Organic Chemicals in the Presence of Effluent Organic Matter in Managed Aquifer Recharge (MAR) Systems. <i>Environmental Science &amp; Technology</i> , 2018, 52, 14342-14351.	10.0	15

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55	Integrative Metabolomic and Metallomic Analysis in a Case-€“Control Cohort With Parkinson-€™s Disease. <i>Frontiers in Aging Neuroscience</i> , 2019, 11, 331.	3.4	15
56	Hidden in its color: A molecular-level analysis of the beer-€™s Maillard reaction network. <i>Food Chemistry</i> , 2021, 361, 130112.	8.2	15
57	The study of levels from redox-active elements in cerebrospinal fluid of amyotrophic lateral sclerosis patients carrying disease-related gene mutations shows potential copper dyshomeostasis. <i>Metallomics</i> , 2020, 12, 668-681.	2.4	14
58	Mass Difference Maps and Their Application for the Recalibration of Mass Spectrometric Data in Nontargeted Metabolomics. <i>Analytical Chemistry</i> , 2019, 91, 3350-3358.	6.5	13
59	Influence of regionality and maturation time on the chemical fingerprint of whisky. <i>Food Chemistry</i> , 2020, 323, 126748.	8.2	12
60	Targeted borate complex formation as followed with electrospray ionization Fourier transform ion cyclotron mass spectrometry: monomolecular model system and polyborate formation. <i>Rapid Communications in Mass Spectrometry</i> , 2008, 22, 3119-3129.	1.5	11
61	Digging into the low molecular weight peptidome with the OligoNet web server. <i>Scientific Reports</i> , 2017, 7, 11692.	3.3	11
62	Aqueous humor selenium level and open-angle glaucoma. <i>Journal of Trace Elements in Medicine and Biology</i> , 2018, 50, 67-72.	3.0	11
63	Modeling the binding of triazine herbicides to humic substances using capillary electrophoresis. <i>Environmental Chemistry Letters</i> , 2006, 4, 15-21.	16.2	10
64	Targeted and Non-Targeted Boron Complex Formation followed by Electrospray Fourier Transform Ion Cyclotron Mass Spectrometry: A Novel Approach for Identifying Boron Esters with Natural Organic Matter. <i>European Journal of Mass Spectrometry</i> , 2011, 17, 113-123.	1.0	8
65	Decomposing the molecular complexity of brewing. <i>Npj Science of Food</i> , 2020, 4, 11.	5.5	8
66	Thermal History of Asteroid Parent Bodies Is Reflected in Their Metalorganic Chemistry. <i>Astrophysical Journal Letters</i> , 2021, 915, L7.	8.3	7
67	Sulfate Alters the Competition Among Microbiome Members of Sediments Chronically Exposed to Asphalt. <i>Frontiers in Microbiology</i> , 2020, 11, 556793.	3.5	5
68	Activity of native hydrolytic enzymes and their association with the cell wall of three ectomycorrhizal fungi. <i>Mycorrhiza</i> , 2013, 23, 185-197.	2.8	3
69	Mining for Active Molecules in Probiotic Supernatant by Combining Non-Targeted Metabolomics and Immunoregulation Testing. <i>Metabolites</i> , 2022, 12, 35.	2.9	3
70	Relationship between the oxidative status and the tumor growth in transplanted triple-negative 4T1 breast tumor mice after oral administration of rhenium(I)-diselenoether. <i>Journal of Trace Elements in Medicine and Biology</i> , 2022, 71, 126931.	3.0	3
71	Sulfonation Reactions behind the Fate of White Wine-€™s Shelf-Life. <i>Metabolites</i> , 2022, 12, 323.	2.9	3
72	Authentication Approach of the Chemodiversity of Grape and Wine by FTICR-MS. <i>ACS Symposium Series</i> , 2011, , 69-88.	0.5	2

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73	Germany: Longitudinal analysis of intraocular pressure in healthy eyes. <i>Cogent Medicine</i> , 2020, 7, .	0.7	2
74	From Genomics to Microevolution and Ecology: The Case of <i>Salinibacter ruber</i> . , 2011, , 109-122.		2
75	ICare Pro: Age Dependent Effect of Central Corneal Thickness on Intraocular Pressure in Glaucoma and Ocular Hypertension Patients. <i>Current Eye Research</i> , 2020, 45, 668-674.	1.5	1
76	Serum Selenium Levels in Glaucoma: a Pilot Study. <i>Klinische Monatsblätter Fur Augenheilkunde</i> , 2022, 239, 326-330.	0.5	1
77	Ultrahigh Resolution Mass Spectrometry Based Non-targeted Microbial Metabolomics. , 2012, , 57-71.		0
78	Combined Nontargeted Analytical Methodologies for the Characterization of the Chemical Evolution of Bottled Wines. <i>ACS Symposium Series</i> , 2015, , 13-27.	0.5	0
79	Profiling of magnesium organosulfur chemistry in meteorites. , 2021, , .		0