

# Sofia Moco

## List of Publications by Year in descending order

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Version: 2024-02-01

66  
papers

4,650  
citations

159585

30  
h-index

123424

61  
g-index

71  
all docs

71  
docs citations

71  
times ranked

7962  
citing authors

#	ARTICLE	IF	CITATIONS
1	Untargeted large-scale plant metabolomics using liquid chromatography coupled to mass spectrometry. <i>Nature Protocols</i> , 2007, 2, 778-791.	12.0	803
2	A Liquid Chromatography-Mass Spectrometry-Based Metabolome Database for Tomato. <i>Plant Physiology</i> , 2006, 141, 1205-1218.	4.8	522
3	Ultrahigh Performance Liquid Chromatography-Tandem Mass Spectrometry Method for Fast and Robust Quantification of Anionic and Aromatic Metabolites. <i>Analytical Chemistry</i> , 2010, 82, 4403-4412.	6.5	317
4	Metabolomics technologies and metabolite identification. <i>TrAC - Trends in Analytical Chemistry</i> , 2007, 26, 855-866.	11.4	309
5	The light-hyperresponsive high pigment dg mutation of tomato: alterations in the fruit metabolome. <i>New Phytologist</i> , 2005, 166, 427-438.	7.3	207
6	Metabolomics View on Gut Microbiome Modulation by Polyphenol-rich Foods. <i>Journal of Proteome Research</i> , 2012, 11, 4781-4790.	3.7	204
7	Tissue specialization at the metabolite level is perceived during the development of tomato fruit. <i>Journal of Experimental Botany</i> , 2007, 58, 4131-4146.	4.8	189
8	Resveratrol and Its Human Metabolites Effects on Metabolic Health and Obesity. <i>Nutrients</i> , 2019, 11, 143.	4.1	178
9	Functional Metabolic Screen Identifies 6-Phosphofructo-2-Kinase/Fructose-2,6-Biphosphatase 4 as an Important Regulator of Prostate Cancer Cell Survival. <i>Cancer Discovery</i> , 2012, 2, 328-343.	9.4	174
10	Mitochondrial oxidative capacity and NAD+ biosynthesis are reduced in human sarcopenia across ethnicities. <i>Nature Communications</i> , 2019, 10, 5808.	12.8	159
11	Menstrual cycle rhythmicity: metabolic patterns in healthy women. <i>Scientific Reports</i> , 2018, 8, 14568.	3.3	114
12	Factors affecting intake, metabolism and health benefits of phenolic acids: do we understand individual variability?. <i>European Journal of Nutrition</i> , 2020, 59, 1275-1293.	3.9	110
13	A reduced form of nicotinamide riboside defines a new path for NAD+ biosynthesis and acts as an orally bioavailable NAD+ precursor. <i>Molecular Metabolism</i> , 2019, 30, 192-202.	6.5	89
14	An inter-laboratory comparison demonstrates that [1H]-NMR metabolite fingerprinting is a robust technique for collaborative plant metabolomic data collection. <i>Metabolomics</i> , 2010, 6, 263-273.	3.0	86
15	Intra- and inter-metabolite correlation spectroscopy of tomato metabolomics data obtained by liquid chromatography-mass spectrometry and nuclear magnetic resonance. <i>Metabolomics</i> , 2008, 4, 202-215.	3.0	74
16	Plant Micrometabolomics: The Analysis of Endogenous Metabolites Present in a Plant Cell or Tissue. <i>Journal of Proteome Research</i> , 2009, 8, 1694-1703.	3.7	72
17	A computationally driven analysis of the polyphenol-protein interactome. <i>Scientific Reports</i> , 2018, 8, 2232.	3.3	59
18	Metabolomics perspectives in pediatric research. <i>Pediatric Research</i> , 2013, 73, 570-576.	2.3	58

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19	Network medicine framework shows that proximity of polyphenol targets and disease proteins predicts therapeutic effects of polyphenols. <i>Nature Food</i> , 2021, 2, 143-155.	14.0	57
20	Ultra-high performance supercritical fluid chromatography coupled with quadrupole-time-of-flight mass spectrometry as a performing tool for bioactive analysis. <i>Journal of Chromatography A</i> , 2016, 1450, 101-111.	3.7	56
21	Impact of breast-feeding and high- and low-protein formula on the metabolism and growth of infants from overweight and obese mothers. <i>Pediatric Research</i> , 2014, 75, 535-543.	2.3	52
22	Specific Dietary Preferences Are Linked to Differing Gut Microbial Metabolic Activity in Response to Dark Chocolate Intake. <i>Journal of Proteome Research</i> , 2012, 11, 6252-6263.	3.7	44
23	A Whole-Grain-Rich Diet Reduces Urinary Excretion of Markers of Protein Catabolism and Gut Microbiota Metabolism in Healthy Men after One Week. <i>Journal of Nutrition</i> , 2013, 143, 766-773.	2.9	40
24	High-Resolution Quantitative Metabolome Analysis of Urine by Automated Flow Injection NMR. <i>Analytical Chemistry</i> , 2013, 85, 5801-5809.	6.5	36
25	SUCLA2 mutations cause global protein succinylation contributing to the pathomechanism of a hereditary mitochondrial disease. <i>Nature Communications</i> , 2020, 11, 5927.	12.8	35
26	Topographical Body Fat Distribution Links to Amino Acid and Lipid Metabolism in Healthy Non-Obese Women. <i>PLoS ONE</i> , 2013, 8, e73445.	2.5	34
27	AMPK promotes survival of c-Myc-positive melanoma cells by suppressing oxidative stress. <i>EMBO Journal</i> , 2018, 37, .	7.8	34
28	Building-Up a Comprehensive Database of Flavonoids Based on Nuclear Magnetic Resonance Data. <i>Chromatographia</i> , 2006, 64, 503-508.	1.3	32
29	Musculoskeletal system in the old age and the demand for healthy ageing biomarkers. <i>Mechanisms of Ageing and Development</i> , 2013, 134, 541-547.	4.6	32
30	Systems Biology Approaches for Inflammatory Bowel Disease. <i>Inflammatory Bowel Diseases</i> , 2014, 20, 2104-2114.	1.9	32
31	Recombinant expression and functional characterisation of regiospecific flavonoid glucosyltransferases from <i>Hieracium pilosella</i> L.. <i>Planta</i> , 2009, 229, 1135-1146.	3.2	31
32	LC-MS-SPE-NMR for the Isolation and Characterization of neo-Clerodane Diterpenoids from <i>Teucrium luteum</i> subsp. <i>flavovirens</i> . <i>Journal of Natural Products</i> , 2010, 73, 962-965.	3.0	30
33	Endogenous nicotinamide riboside metabolism protects against diet-induced liver damage. <i>Nature Communications</i> , 2019, 10, 4291.	12.8	30
34	Optimized selection of liquid chromatography conditions for wide range analysis of natural compounds. <i>Journal of Chromatography A</i> , 2017, 1504, 91-104.	3.7	28
35	Studying Metabolism by NMR-Based Metabolomics. <i>Frontiers in Molecular Biosciences</i> , 2022, 9, 882487.	3.5	26
36	A 48-Hour Vegan Diet Challenge in Healthy Women and Men Induces a Branched-Chain Amino Acid Related, Health Associated, Metabolic Signature. <i>Molecular Nutrition and Food Research</i> , 2018, 62, 1700703.	3.3	25

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37	Augmented mitochondrial energy metabolism is an early response to chronic glucose stress in human pancreatic beta cells. <i>Diabetologia</i> , 2020, 63, 2628-2640.	6.3	24
38	MetIDB: A Publicly Accessible Database of Predicted and Experimental <sup>1</sup> H NMR Spectra of Flavonoids. <i>Analytical Chemistry</i> , 2013, 85, 8700-8707.	6.5	23
39	In Vitro Gut Metabolism of [ <sup>13</sup> C]â€Quinic Acid, The Other Hydrolysis Product of Chlorogenic Acid. <i>Molecular Nutrition and Food Research</i> , 2018, 62, e1800396.	3.3	23
40	Validation of the Brazilian Healthy Eating Index-Revised Using Biomarkers in Children and Adolescents. <i>Nutrients</i> , 2018, 10, 154.	4.1	22
41	AlpsNMR: an R package for signal processing of fully untargeted NMR-based metabolomics. <i>Bioinformatics</i> , 2020, 36, 2943-2945.	4.1	19
42	Vitamin B2 and Folate Concentrations are Associated with ARA, EPA and DHA Fatty Acids in Red Blood Cells of Brazilian Children and Adolescents. <i>Nutrients</i> , 2019, 11, 2918.	4.1	16
43	Role of sulfotransferases in resveratrol metabolism in human adipocytes. <i>Molecular Nutrition and Food Research</i> , 2017, 61, 1700020.	3.3	15
44	Chemical Identification Strategies Using Liquid Chromatography-Photodiode Array-Solid-Phase Extraction-Nuclear Magnetic Resonance/Mass Spectrometry. <i>Methods in Molecular Biology</i> , 2011, 860, 287-316.	0.9	15
45	Resistance to lean mass gain in constitutional thinness in free-living conditions is not overpassed by overfeeding. <i>Journal of Cachexia, Sarcopenia and Muscle</i> , 2020, 11, 1187-1199.	7.3	14
46	A Method to Monitor the NAD+ Metabolomeâ€”From Mechanistic to Clinical Applications. <i>International Journal of Molecular Sciences</i> , 2021, 22, 10598.	4.1	13
47	Reprint of: Musculoskeletal system in the old age and the demand for healthy ageing biomarkers. <i>Mechanisms of Ageing and Development</i> , 2014, 136-137, 94-100.	4.6	9
48	Standardized LC-ELSD Fractionation Procedure for the Identification of Minor Bioactives via the Enzymatic Screening of Natural Extracts. <i>Journal of Natural Products</i> , 2016, 79, 2856-2864.	3.0	7
49	Biomarker-based validity of a food frequency questionnaire estimating intake in Brazilian children and adolescents. <i>International Journal of Food Sciences and Nutrition</i> , 2021, 72, 236-247.	2.8	7
50	Nicotinamide Riboside and Dihyronicotinic Acid Riboside Synergistically Increase Intracellular NAD+ by Generating Dihyronicotinamide Riboside. <i>Nutrients</i> , 2022, 14, 2752.	4.1	7
51	DNA damage is inversely associated to blood levels of DHA and EPA fatty acids in Brazilian children and adolescents. <i>Food and Function</i> , 2020, 11, 5115-5121.	4.6	6
52	Can We Use Metabolomics to Understand Changes to Gut Microbiota Populations and Function? A Nutritional Perspective. <i>Molecular and Integrative Toxicology</i> , 2015, , 83-108.	0.5	6
53	Vegan and animal meal composition and timing influence glucose and lipid related postprandial metabolic profiles. <i>Molecular Nutrition and Food Research</i> , 2019, 63, 1800568.	3.3	5
54	Contribution of genetic ancestry and polygenic risk score in meeting vitamin B12 needs in healthy Brazilian children and adolescents. <i>Scientific Reports</i> , 2021, 11, 11992.	3.3	5

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55	Metabo groups in response to micronutrient intervention: Pilot study. Food Science and Nutrition, 2020, 8, 683-693.	3.4	4
56	Front cover: Vegan and Animal Meal Composition and Timing Influence Glucose and Lipid Related Postprandial Metabolic Profiles. Molecular Nutrition and Food Research, 2019, 63, 1970013.	3.3	3
57	DNA Damage, n-3 Long-Chain PUFA Levels and Proteomic Profile in Brazilian Children and Adolescents. Nutrients, 2021, 13, 2483.	4.1	2
58	Metabolic Groups Related to Blood Vitamin Levels and Inflammatory Biomarkers in Brazilian Children and Adolescents. Journal of Nutritional Science and Vitaminology, 2020, 66, 515-525.	0.6	2
59	Metabonomics in Clinical Practice. Molecular and Integrative Toxicology, 2015, , 25-44.	0.5	1
60	Combining the full potential of UHPSFC-QToF/MS and UHPLC-QToF/MS to improve the workflow efficiency of both plant metabolic profiling and natural bioactive discovery. Planta Medica, 2016, 81, S1-S381.	1.3	1
61	220 PFKFB4 is Essential for Prostate Cancer Cell Survival by Maintaining the Balance Between the Use of Glucose for Energy Generation and the Synthesis of Anti-oxidants. European Journal of Cancer, 2012, 48, S53-S54.	2.8	0
62	Metabolomics in nutrition. , 2013, , 106-123.		0
63	Front cover: In Vitro Gut Metabolism of [U-13 C]-Quinic Acid, The Other Hydrolysis Product of Chlorogenic Acid. Molecular Nutrition and Food Research, 2018, 62, 1870094.	3.3	0
64	Natural product research in the food context. Planta Medica, 2016, 81, S1-S381.	1.3	0
65	Improving the detection of plant bioactive compounds by coupling a semi-preparative 2D-LCxLC system to an HTS platform. Planta Medica, 2016, 81, S1-S381.	1.3	0
66	Advanced technologies for exploring the chemical and functional properties of bioactive constituents in food. Planta Medica, 2016, 81, S1-S381.	1.3	0