

Alfredo Miccheli

List of Publications by Year in descending order

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79
papers

3,298
citations

172386

29
h-index

155592

55
g-index

79
all docs

79
docs citations

79
times ranked

5506
citing authors

#	ARTICLE	IF	CITATIONS
1	Gut microbiota profiling of pediatric nonalcoholic fatty liver disease and obese patients unveiled by an integrated meta-omics-based approach. <i>Hepatology</i> , 2017, 65, 451-464.	3.6	572
2	Mitochondrial pathways in sarcopenia of aging and disuse muscle atrophy. <i>Biological Chemistry</i> , 2013, 394, 393-414.	1.2	246
3	Gut microbiome-derived metabolites characterize a peculiar obese urinary metabotype. <i>International Journal of Obesity</i> , 2010, 34, 1095-1098.	1.6	206
4	Gut metabolomics profiling of non-small cell lung cancer (NSCLC) patients under immunotherapy treatment. <i>Journal of Translational Medicine</i> , 2020, 18, 49.	1.8	114
5	Effect of pH on the production of bacterial polyhydroxyalkanoates by mixed cultures enriched under periodic feeding. <i>Process Biochemistry</i> , 2010, 45, 714-723.	1.8	109
6	Gut microbiota signatures in cystic fibrosis: Loss of host CFTR function drives the microbiota enterophenotype. <i>PLoS ONE</i> , 2018, 13, e0208171.	1.1	107
7	Current nutritional recommendations and novel dietary strategies to manage sarcopenia. <i>Journal of Frailty & Aging</i> , 2013, 2, 38-53.	0.8	94
8	Ageing brain: effect of acetyl-L-carnitine treatment on rat brain energy and phospholipid metabolism. A study by ³¹ P and ¹ H NMR spectroscopy. <i>Brain Research</i> , 1990, 526, 108-112.	1.1	88
9	Phylogenetic and Metabolic Tracking of Gut Microbiota during Perinatal Development. <i>PLoS ONE</i> , 2015, 10, e0137347.	1.1	84
10	Exploring human breast milk composition by NMR-based metabolomics. <i>Natural Product Research</i> , 2014, 28, 95-101.	1.0	83
11	Network Analysis of Gut Microbiome and Metabolome to Discover Microbiota-Linked Biomarkers in Patients Affected by Non-Small Cell Lung Cancer. <i>International Journal of Molecular Sciences</i> , 2020, 21, 8730.	1.8	75
12	Assessment of Fecal Microbiota and Fecal Metabolome in Symptomatic Uncomplicated Diverticular Disease of the Colon. <i>Journal of Clinical Gastroenterology</i> , 2016, 50, S9-S12.	1.1	71
13	A metabonomic study of transgenic maize (<i>Zea mays</i>) seeds revealed variations in osmolytes and branched amino acids. <i>Journal of Experimental Botany</i> , 2006, 57, 2613-2625.	2.4	70
14	Effect of acetyl-L-carnitine on recovery of brain phosphorus metabolites and lactic acid level during reperfusion after cerebral ischemia in the rat - study by ¹³ P- and ¹ H-NMR spectroscopy. <i>Brain Research</i> , 1994, 643, 92-99.	1.1	69
15	Administration of a multistrain probiotic product (VSL#3) to women in the perinatal period differentially affects breast milk beneficial microbiota in relation to mode of delivery. <i>Pharmacological Research</i> , 2015, 95-96, 63-70.	3.1	64
16	Fecal and urinary NMR-based metabolomics unveil an aging signature in mice. <i>Experimental Gerontology</i> , 2014, 49, 5-11.	1.2	62
17	NMR-based metabonomic study of transgenic maize. <i>Phytochemistry</i> , 2004, 65, 3187-3198.	1.4	59
18	Monitoring of metabolic profiling and water status of Hayward kiwifruits by nuclear magnetic resonance. <i>Talanta</i> , 2010, 82, 1826-1838.	2.9	59

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19	Zebrafish embryo proteins induce apoptosis in human colon cancer cells (Caco2). Apoptosis: an International Journal on Programmed Cell Death, 2006, 11, 1617-1628.	2.2	54
20	Effects of resveratrol on HepG2 cells as revealed by 1H-NMR based metabolic profiling. Biochimica Et Biophysica Acta - General Subjects, 2012, 1820, 1-8.	1.1	51
21	Characterization of the gut-liver-muscle axis in cirrhotic patients with sarcopenia. Liver International, 2021, 41, 1320-1334.	1.9	51
22	The Influence of a Sports Drink on the Postexercise Metabolism of Elite Athletes as Investigated by NMR-Based Metabolomics. Journal of the American College of Nutrition, 2009, 28, 553-564.	1.1	43
23	Electrochemically Driven Fermentation of Organic Substrates with Undefined Mixed Microbial Cultures. ChemSusChem, 2017, 10, 3091-3097.	3.6	40
24	NMR-based metabolic profiling of human hepatoma cells in relation to cell growth by culture media analysis. Biochimica Et Biophysica Acta - General Subjects, 2006, 1760, 1723-1731.	1.1	39
25	Daily Consumption of Orange Juice from <i>Citrus sinensis</i> L. Osbeck cv. Cara Cara and cv. Bahia Differently Affects Gut Microbiota Profiling as Unveiled by an Integrated Meta-Omics Approach. Journal of Agricultural and Food Chemistry, 2019, 67, 1381-1391.	2.4	39
26	Invariant features of metabolic networks: a data analysis application on scaling properties of biochemical pathways. Physica A: Statistical Mechanics and Its Applications, 2004, 337, 157-170.	1.2	37
27	Acetyl-L-carnitine modulates glucose metabolism and stimulates glycogen synthesis in rat brain. Brain Research, 1998, 796, 75-81.	1.1	32
28	The metabolomics side of frailty: Toward personalized medicine for the aged. Experimental Gerontology, 2019, 126, 110692.	1.2	32
29	Combination of Metabolomic and Proteomic Analysis Revealed Different Features among <i>Lactobacillus delbrueckii</i> Subspecies <i>bulgaricus</i> and <i>lactis</i> Strains While In Vivo Testing in the Model Organism <i>Caenorhabditis elegans</i> Highlighted Probiotic Properties. Frontiers in Microbiology, 2017, 8, 1206.	1.5	30
30	Metabolic Profiling and Outer Pericarp Water State in Zespri, Cl.GI, and Hayward Kiwifruits. Journal of Agricultural and Food Chemistry, 2013, 61, 1727-1740.	2.4	29
31	<i>Lactobacillus acidophilus</i> La5 and <i>Bifidobacterium lactis</i> Bb12 Induce Different Age-Related Metabolic Profiles Revealed by 1H-NMR Spectroscopy in Urine and Feces of Mice. Journal of Nutrition, 2013, 143, 1549-1557.	1.3	29
32	Olive Mill Wastes: A Source of Bioactive Molecules for Plant Growth and Protection against Pathogens. Biology, 2020, 9, 450.	1.3	29
33	Effect of long-term feeding with acetyl-L-carnitine on the age-related changes in rat brain lipid composition: a study by 31P NMR spectroscopy. Neurochemical Research, 2000, 25, 395-399.	1.6	28
34	Hepatocytes Entrapped in Alginate Gel Beads and Cultured in Bioreactor: Rapid Repolarization and Reconstitution of Adhesion Areas. Cells Tissues Organs, 2001, 168, 126-136.	1.3	28
35	A non-targeted metabolomics approach to evaluate the effects of biomass growth and chitosan elicitation on primary and secondary metabolism of <i>Hypericum perforatum</i> in vitro roots. Metabolomics, 2014, 10, 1186-1196.	1.4	28
36	Acetic acid acts as an elicitor exerting a chitosan-like effect on xanthone biosynthesis in <i>Hypericum perforatum</i> L. root cultures. Plant Cell Reports, 2016, 35, 1009-1020.	2.8	28

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37	Liquid chromatography-tandem mass spectrometry method for the determination of vitamin K homologues in human milk after overnight cold saponification. <i>Journal of Food Composition and Analysis</i> , 2016, 47, 21-30.	1.9	27
38	Modulation of human lymphoblastoid B cell line by phorbol ester and sphingosine. A ³¹ P-NMR study. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 1991, 1093, 29-35.	1.9	26
39	[¹³ C]Glucose entry in neuronal and astrocytic intermediary metabolism of aged rats. <i>Brain Research</i> , 2003, 966, 116-125.	1.1	25
40	¹ H NMR-Based Metabolomics Reveals a Pedoclimatic Metabolic Imprinting in Ready-to-Drink Carrot Juices. <i>Journal of Agricultural and Food Chemistry</i> , 2016, 64, 5284-5291.	2.4	21
41	Application of NMR-based Metabolomics to the Study of Gut Microbiota in Obesity. <i>Journal of Clinical Gastroenterology</i> , 2014, 48, S5-S7.	1.1	20
42	Orange juice affects acylcarnitine metabolism in healthy volunteers as revealed by a mass-spectrometry based metabolomics approach. <i>Food Research International</i> , 2018, 107, 346-352.	2.9	20
43	Metabolic Profile and Root Development of <i>Hypericum perforatum</i> L. In vitro Roots under Stress Conditions Due to Chitosan Treatment and Culture Time. <i>Frontiers in Plant Science</i> , 2016, 7, 507.	1.7	17
44	Aerobic metabolism of mixed carbon sources in sequencing batch reactor under pulse and continuous feeding. <i>Bioresource Technology</i> , 2013, 129, 118-126.	4.8	16
45	¹ H NMR-Based Urinary Metabolic Profiling Reveals Changes in Nicotinamide Pathway Intermediates Due to Postnatal Stress Model in Rat. <i>Journal of Proteome Research</i> , 2014, 13, 5848-5859.	1.8	16
46	Short-chain fatty acids promote the effect of environmental signals on the gut microbiome and metabolome in mice. <i>Communications Biology</i> , 2022, 5, .	2.0	16
47	Abscisic acid-induced microheterogeneity in phospholipid vesicle. <i>Biophysical Chemistry</i> , 1990, 35, 65-73.	1.5	15
48	Glutamic acid removal and PHB storage in the activated sludge process under dynamic conditions. <i>Biotechnology and Bioengineering</i> , 2004, 86, 842-851.	1.7	15
49	Can the FUT2 Non-secretor Phenotype Associated With Gut Microbiota Increase the Children Susceptibility for Type 1 Diabetes? A Mini Review. <i>Frontiers in Nutrition</i> , 2020, 7, 606171.	1.6	15
50	Longitudinal Multi-Omics Study of a Mother-Infant Dyad from Breastfeeding to Weaning: An Individualized Approach to Understand the Interactions Among Diet, Fecal Metabolome and Microbiota Composition. <i>Frontiers in Molecular Biosciences</i> , 2021, 8, 688440.	1.6	14
51	Muscular Uptake of Tc-99m MIBI and Tl-201 in Duchenne Muscular Dystrophy. <i>Clinical Nuclear Medicine</i> , 1996, 21, 792-796.	0.7	10
52	<i>Leuconostoc</i> and <i>Enteroides</i> Strains Isolated from Carrots Show Probiotic Features. <i>Microorganisms</i> , 2021, 9, 2290.	1.6	10
53	Dexamethasone-dependent modulation of human lymphoblastoid B cell line through sphingosine production. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 1994, 1221, 103-108.	1.9	9
54	Energy metabolism and re-establishment of intercellular adhesion complexes of gel entrapped hepatocytes. <i>Cytotechnology</i> , 2000, 32, 219-228.	0.7	9

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55	Dexamethasone-dependent modulation of cholesterol levels in human lymphoblastoid B cell line through sphingosine production. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 1994, 1221, 171-177.	1.9	8
56	Depletion of casein kinase I leads to a NAD(P) ⁺ /NAD(P)H balance-dependent metabolic adaptation as determined by NMR spectroscopy-metabolomic profile in <i>Kluyveromyces lactis</i> . <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2014, 1840, 556-564.	1.1	8
57	The “Metabolic biomarkers of frailty in older people with type 2 diabetes mellitus” (MetaboFrail) study: Rationale, design and methods. <i>Experimental Gerontology</i> , 2020, 129, 110782.	1.2	8
58	NMR-Based Metabolomic Study of Purple Carrot Optimal Harvest Time for Utilization as a Source of Bioactive Compounds. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 8493.	1.3	8
59	Targeted and untargeted metabolomics applied to occupational exposure to hyperbaric atmosphere. <i>Toxicology Letters</i> , 2020, 328, 28-34.	0.4	8
60	Red Beetroot’s NMR-Based Metabolomics: Phytochemical Profile Related to Development Time and Production Year. <i>Foods</i> , 2021, 10, 1887.	1.9	8
61	Modulation of the free sphingosin levels in Epstein Barr virus transformed human B lymphocytes by phorbol dibutyrate. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 1991, 1095, 90-92.	1.9	7
62	Transport and consumption rate of O ₂ in alginate gel beads entrapping hepatocytes. <i>Biotechnology Letters</i> , 2000, 22, 865-870.	1.1	7
63	Metabolic analysis of the removal of formic acid by unacclimated activated sludge. <i>Water Research</i> , 2010, 44, 3393-3400.	5.3	7
64	Gut and Breast Milk Microbiota and Their Role in the Development of the Immune Function. <i>Current Pediatrics Reports</i> , 2014, 2, 218-226.	1.7	7
65	¹³ C NMR based profiling unveils different α -ketoglutarate pools involved into glutamate and lysine synthesis in the milk yeast <i>Kluyveromyces lactis</i> . <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2015, 1850, 2222-2227.	1.1	6
66	Urinary metabolic profiling and symptomatic uncomplicated diverticular disease of the colon. <i>Clinics and Research in Hepatology and Gastroenterology</i> , 2017, 41, 344-346.	0.7	6
67	Biostimulant Effects of <i>Chaetomium globosum</i> and <i>Minimedusa polyspora</i> Culture Filtrates on <i>Cichorium intybus</i> Plant: Growth Performance and Metabolomic Traits. <i>Frontiers in Plant Science</i> , 2022, 13, .	1.7	6
68	Fused Omics Data Models Reveal Gut Microbiome Signatures Specific of Inactive Stage of Juvenile Idiopathic Arthritis in Pediatric Patients. <i>Microorganisms</i> , 2020, 8, 1540.	1.6	5
69	Dissecting drug and vehicle metabolic effects in rats by a metabolomic approach. <i>Journal of Proteomics</i> , 2007, 70, 355-361.	2.4	4
70	Urinary metabolomics of HCV patients with severe liver fibrosis before and during the sustained virologic response achieved by direct acting antiviral treatment. <i>Biomedicine and Pharmacotherapy</i> , 2021, 143, 112217.	2.5	4
71	NMR-Based Metabolomics in Food Quality Control. <i>Data Handling in Science and Technology</i> , 2013, 28, 411-447.	3.1	3
72	Su1348 Analysis of Microbiota and Metaboloma in Symptomatic Uncomplicated Diverticular Disease of the Colon. <i>Gastroenterology</i> , 2015, 148, S-481-S-482.	0.6	2

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73	Histone acetylation landscape in <i>S. cerevisiae</i> nhp6ab mutants reflects altered glucose metabolism. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2020, 1864, 129454.	1.1	2
74	Biomonitoring of Exposure to Urban Pollutants and Oxidative Stress during the COVID-19 Lockdown in Rome Residents. <i>Toxics</i> , 2022, 10, 267.	1.6	2
75	Metabolic Impact of HCV Clearance Examined by Urine Metabonomics in Patients with Severe Liver Fibrosis. <i>SSRN Electronic Journal</i> , 0, , .	0.4	1
76	Hyperbaric Exposure of Scuba Divers Affects the Urinary Excretion of Nucleic Acid Oxidation Products and Hypoxanthine. <i>International Journal of Environmental Research and Public Health</i> , 2022, 19, 3005.	1.2	1
77	Diet and Aging. , 2013, , 109-120.		0
78	Fecal Microbiota, Fecal and Urinary Metabolic Profiling and Symptomatic Uncomplicated Diverticular Disease of the Colon. <i>Gastroenterology</i> , 2017, 152, S807.	0.6	0
79	Comparative transcriptomics and metabolomics in <i>Vitis vinifera</i> "Malvasia"™ and <i>Vitis rupestris</i> "Du Lot"™ cultured cells provide insights in possible innate resistance against pathogens. <i>Plant Biosystems</i> , 2021, 155, 557-566.	0.8	0