Giuseppe Astarita

List of Publications by Year
in descending order

88	8,742	53939 47	56606 87
papers	citations	h-index	g-index

92	92	92	11919
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Ion mobility mass spectrometry in the omics era: Challenges and opportunities for metabolomics and lipidomics. Mass Spectrometry Reviews, 2022, 41, 722-765.	2.8	87
2	Analysis of Grape Volatiles Using Atmospheric Pressure Ionization Gas Chromatography Mass Spectrometry-Based Metabolomics. Methods in Molecular Biology, 2022, 2396, 117-136.	0.4	1
3	A High-Throughput HILIC-MS-Based Metabolomic Assay for the Analysis of Polar Metabolites. Methods in Molecular Biology, 2022, 2396, 137-159.	0.4	4
4	Preclinical and clinical evaluation of the LRRK2 inhibitor DNL201 for Parkinsonâ€™s disease. Science Translational Medicine, 2022, 14, .	5.8	108
5	Novel App knock-in mouse model shows key features of amyloid pathology and reveals profound metabolic dysregulation of microglia. Molecular Neurodegeneration, 2022, 17, .	4.4	26
6	Rescue of a lysosomal storage disorder caused by Grn loss of function with a brain penetrant progranulin biologic. Cell, 2021, 184, 4651-4668.e25.	13.5	97
7	Metabolomic approaches to study the tumor microenvironment. Methods in Enzymology, 2020, 636, 93-108.	0.4	3
8	CMIP is a negative regulator of T cell signaling. Cellular and Molecular Immunology, 2020, 17, 1026-1041.	4.8	15
9	TREM2 Regulates Microglial Cholesterol Metabolism upon Chronic Phagocytic Challenge. Neuron, 2020, 105, 837-854.e9.	3.8	391
10	Association of caffeine and related analytes with resistance to Parkinson disease among LRRK2 mutation carriers. Neurology, 2020, 95, e3428-e3437.	1.5	34
11	Characterization of Fluid Biomarkers Reveals Lysosome Dysfunction and Neurodegeneration in Neuronopathic MPS II Patients. International Journal of Molecular Sciences, 2020, 21, 5188.	1.8	14
12	High-Throughput Liquid Chromatographyâ€“Tandem Mass Spectrometry Quantification of Glycosaminoglycans as Biomarkers of Mucopolysaccharidosis II. International Journal of Molecular Sciences, 2020, 21, 5449.	1.8	9
13	Gangliosides in Podocyte Biology and Disease. International Journal of Molecular Sciences, 2020, 21, 9645.	1.8	7
14	Brain delivery and activity of a lysosomal enzyme using a blood-brain barrier transport vehicle in mice. Science Translational Medicine, 2020, 12, .	5.8	121
15	Alzheimerâ€™s-associated PLCÎ³2 is a signaling node required for both TREM2 function and the inflammatory response in human microglia. Nature Neuroscience, 2020, 23, 927-938.	7.1	142
16	CHAPTER 4. Ion Mobilityâ€“Mass Spectrometry for Lipid Analysis. New Developments in Mass Spectrometry, 2020, , 74-87.	0.2	0
17	Traveling Wave Ion Mobility Mass Spectrometry: Metabolomics Applications. Methods in Molecular Biology, 2019, 1978, 39-53.	0.4	4
18	Investigating the Potential of Ion Mobility-Mass Spectrometry for Microalgae Biomass Characterization. Analytical Chemistry, 2019, 91, 9266-9276.	3.2	10

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19	Serum lipidomic analysis from mixed neutron/X-ray radiation fields reveals a hyperlipidemic and pro-inflammatory phenotype. Scientific Reports, 2019, 9, 4539.	1.6	26
20	Unbiased Lipidomics and Metabolomics of Human Brain Samples. Methods in Molecular Biology, 2018, 1750, 255-269.	0.4	13
21	Evaluation of Seasonal Variability of Toxic and Essential Elements in Urine Analyzed by Inductively Coupled Plasma Mass Spectrometry. Exposure and Health, 2017, 9, 79-88.	2.8	11
22	Pleiotropic Effect of Human ApoE4 on Cerebral Ceramide and Saturated Fatty Acid Levels. Journal of Alzheimer's Disease, 2017, 60, 769-781.	1.2	7
23	Ion-Mobility Mass Spectrometry for Lipidomics Applications. Neuromethods, 2017, , 61-79.	0.2	5
24	Metabolomics and lipidomics using traveling-wave ion mobility mass spectrometry. Nature Protocols, 2017, 12, 797-813.	5.5	205
25	A Serum Small Molecule Biosignature of Radiation Exposure from Total Body Irradiated Patients. Journal of Proteome Research, 2017, 16, 3805-3815.	1.8	37
26	Metabolic Profiling as a Screening Tool for Cytotoxic Compounds: Identification of 3-Alkyl Pyridine Alkaloids from Sponges Collected at a Shallow Water Hydrothermal Vent Site North of Iceland. Marine Drugs, 2017, 15, 52.	2.2	13
27	A lipidomic and metabolomic serum signature from nonhuman primates exposed to ionizing radiation. Metabolomics, 2016, 12, 1.	1.4	55
28	Histone Deacetylase SIRT1 Controls Proliferation, Circadian Rhythm, and Lipid Metabolism during Liver Regeneration in Mice. Journal of Biological Chemistry, 2016, 291, 23318-23329.	1.6	62
29	Unbiased Metabolomic Investigation of Alzheimerâ€™s Disease Brain Points to Dysregulation of Mitochondrial Aspartate Metabolism. Journal of Proteome Research, 2016, 15, 608-618.	1.8	107
30	Untargeted Metabolomics Reveals Predominant Alterations in Lipid Metabolism Following Light Exposure in Broccoli Sprouts. International Journal of Molecular Sciences, 2015, 16, 13678-13691.	1.8	20
31	Deficiency of Lipoprotein Lipase in Neurons Decreases AMPA Receptor Phosphorylation and Leads to Neurobehavioral Abnormalities in Mice. PLoS ONE, 2015, 10, e0135113.	1.1	13
32	Ion Mobility-Derived Collision Cross Section As an Additional Measure for Lipid Fingerprinting and Identification. Analytical Chemistry, 2015, 87, 1137-1144.	3.2	245
33	Multidimensional Analytical Approach Based on UHPLC-UV-Ion Mobility-MS for the Screening of Natural Pigments. Analytical Chemistry, 2015, 87, 2593-2599.	3.2	50
34	Tetrahydrobiopterin and alkylglycerol monooxygenase substantially alter the murine macrophage lipidome. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 2431-2436.	3.3	50
35	Lipidomics: An Evolving Discipline in Molecular Sciences. International Journal of Molecular Sciences, 2015, 16, 7748-7752.	1.8	6
36	Applications of ion-mobility mass spectrometry for lipid analysis. Analytical and Bioanalytical Chemistry, 2015, 407, 4995-5007.	1.9	158

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37	Targeted lipidomic strategies for oxygenated metabolites of polyunsaturated fatty acids. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2015, 1851, 456-468.	1.2	110
38	Methamphetamine Accelerates Cellular Senescence through Stimulation of De Novo Ceramide Biosynthesis. PLoS ONE, 2015, 10, e0116961.	1.1	39
39	Circadian Control of Fatty Acid Elongation by SIRT1 Protein-mediated Deacetylation of Acetyl-coenzyme A Synthetase 1. Journal of Biological Chemistry, 2014, 289, 6091-6097.	1.6	61
40	Ion Mobility Derived Collision Cross Sections to Support Metabolomics Applications. Analytical Chemistry, 2014, 86, 3985-3993.	3.2	279
41	Metabolic Phenotyping Reveals a Lipid Mediator Response to Ionizing Radiation. Journal of Proteome Research, 2014, 13, 4143-4154.	1.8	62
42	A Protective Lipidomic Biosignature Associated with a Balanced Omega-6/Omega-3 Ratio in fat-1 Transgenic Mice. PLoS ONE, 2014, 9, e96221.	1.1	32
43	An Emerging Role for Metabolomics in Nutrition Science. Journal of Nutrigenetics and Nutrigenomics, 2013, 6, 181-200.	1.8	71
44	Pharmacological modulation of circadian rhythms by synthetic activators of the deacetylase SIRT1. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 3333-3338.	3.3	94
45	An amyloid Î²42-dependent deficit in anandamide mobilization is associated with cognitive dysfunction in Alzheimer's disease. Neurobiology of Aging, 2012, 33, 1522-1532.	1.5	97
46	Effects of diet and behavioral enrichment on free fatty acids in the aged canine brain. Neuroscience, 2012, 202, 326-333.	1.1	23
47	2-Arachidonoylglycerol Signaling in Forebrain Regulates Systemic Energy Metabolism. Cell Metabolism, 2012, 15, 299-310.	7.2	91
48	The endogenous cannabinoid system in the gut of patients with inflammatory bowel disease. Mucosal Immunology, 2011, 4, 574-583.	2.7	76
49	Deficiency of Lipoprotein Lipase in Neurons Modifies the Regulation of Energy Balance and Leads to Obesity. Cell Metabolism, 2011, 13, 105-113.	7.2	118
50	Towards a whole-body systems [multi-organ] lipidomics in Alzheimerâ€™s disease. Prostaglandins Leukotrienes and Essential Fatty Acids, 2011, 85, 197-203.	1.0	33
51	New Lipidomic Approaches in Cystic Fibrosis. Methods in Molecular Biology, 2011, 742, 265-278.	0.4	11
52	Lipidomics of Alzheimerâ€™s disease: a liver peroxisomal dysfunction in the metabolism of omega-3 fatty acids. Oleagineux Corps Gras Lipides, 2011, 18, 218-223.	0.2	2
53	Elevated Stearoyl-CoA Desaturase in Brains of Patients with Alzheimer's Disease. PLoS ONE, 2011, 6, e24777.	1.1	111
54	Plasma lipidomics reveals potential prognostic signatures within a cohort of cystic fibrosis patients. Journal of Lipid Research, 2011, 52, 1011-1022.	2.0	62

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55	Endocannabinoid signal in the gut controls dietary fat intake. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 12904-12908.	3.3	171
56	Diacylglycerol Lipase-Î± and -Î² Control Neurite Outgrowth in Neuro-2a Cells through Distinct Molecular Mechanisms. Molecular Pharmacology, 2011, 80, 60-67.	1.0	33
57	Sympathetic Activity Controls Fat-Induced Oleoylethanolamide Signaling in Small Intestine. Journal of Neuroscience, 2011, 31, 5730-5736.	1.7	40
58	Dietary and Behavioral Interventions Protect against Age Related Activation of Caspase Cascades in the Canine Brain. PLoS ONE, 2011, 6, e24652.	1.1	12
59	Endocannabinoid Regulation of Acute and Protracted Nicotine Withdrawal: Effect of FAAH Inhibition. PLoS ONE, 2011, 6, e28142.	1.1	70
60	Changes in Cognition and Amyloid-Î² Processing with Long Term Cholesterol Reduction using Atorvastatin in Aged Dogs. Journal of Alzheimer's Disease, 2010, 22, 135-150.	1.2	34
61	CD36 gene deletion decreases oleoylethanolamide levels in small intestine of free-feeding mice. Pharmacological Research, 2010, 61, 27-33.	3.1	44
62	PER2 Controls Lipid Metabolism by Direct Regulation of PPARÎ³. Cell Metabolism, 2010, 12, 509-520.	7.2	400
63	Deficient Liver Biosynthesis of Docosahexaenoic Acid Correlates with Cognitive Impairment in Alzheimer's Disease. PLoS ONE, 2010, 5, e12538.	1.1	176
64	A Novel Lipidomic Strategy Reveals Plasma Phospholipid Signatures Associated with Respiratory Disease Severity in Cystic Fibrosis Patients. PLoS ONE, 2009, 4, e7735.	1.1	51
65	Fat-induced satiety factor oleoylethanolamide enhances memory consolidation. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 8027-8031.	3.3	123
66	Lipidomic Analysis of Biological Samples by Liquid Chromatography Coupled to Mass Spectrometry. Methods in Molecular Biology, 2009, 579, 201-219.	0.4	30
67	Lipidomic analysis of endocannabinoid metabolism in biological samples. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2009, 877, 2755-2767.	1.2	103
68	Chapter 4 Targeted Lipidomics as a Tool to Investigate Endocannabinoid Function. International Review of Neurobiology, 2009, 85, 35-55.	0.9	15
69	Selective N -acylethanolamine-hydrolyzing acid amidase inhibition reveals a key role for endogenous palmitoylethanolamide in inflammation. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 20966-20971.	3.3	206
70	Circadian Control of the NAD ⁺ Salvage Pathway by CLOCK-SIRT1. Science, 2009, 324, 654-657.	6.0	1,046
71	An endocannabinoid signaling system modulates anxiety-like behavior in male Syrian hamsters. Psychopharmacology, 2008, 200, 333-346.	1.5	52
72	The Lipid Messenger OEA Links Dietary Fat Intake to Satiety. Cell Metabolism, 2008, 8, 281-288.	7.2	321

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73	Targeted enhancement of oleoylethanolamide production in proximal small intestine induces across-meal satiety in rats. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2008, 295, R45-R50.	0.9	96
74	Identification of biosynthetic precursors for the endocannabinoid anandamide in the rat brain. Journal of Lipid Research, 2008, 49, 48-57.	2.0	58
75	Endogenous cannabinoids in patients with schizophrenia and substance use disorder during quetiapine therapy. Journal of Psychopharmacology, 2008, 22, 262-269.	2.0	45
76	Food Intake Regulates Oleoylethanolamide Formation and Degradation in the Proximal Small Intestine. Journal of Biological Chemistry, 2007, 282, 1518-1528.	1.6	234
77	A Key Role for Diacylglycerol Lipase-Î± in Metabotropic Glutamate Receptor-Dependent Endocannabinoid Mobilization. Molecular Pharmacology, 2007, 72, 612-621.	1.0	159
78	Identification of a Bioactive Impurity in a Commercial Sample of 6â€Methylâ€2â€pâ€Tolylaminobenzo[d][1,3]Oxazinâ€4â€One (URB754). Annali Di Chimica, 2007, 97, 887-894.	0.6	17
79	URB602 Inhibits Monoacylglycerol Lipase andÂSelectively Blocks 2-Arachidonoylglycerol Degradation in Intact Brain Slices. Chemistry and Biology, 2007, 14, 1357-1365.	6.2	93
80	Determination of anandamide and other fatty acyl ethanolamides in human serum by electrospray tandem mass spectrometry. Analytical Biochemistry, 2007, 361, 162-168.	1.1	56
81	A neuroscientist's guide to lipidomics. Nature Reviews Neuroscience, 2007, 8, 743-754.	4.9	327
82	Pharmacological Characterization of Hydrolysis-Resistant Analogs of Oleoylethanolamide with Potent Anorexiant Properties. Journal of Pharmacology and Experimental Therapeutics, 2006, 318, 563-570.	1.3	79
83	Postprandial increase of oleoylethanolamide mobilization in small intestine of the Burmese python (Python molurus). American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2006, 290, R1407-R1412.	0.9	65
84	Selective inhibition of 2-AG hydrolysis enhances endocannabinoid signaling in hippocampus. Nature Neuroscience, 2005, 8, 1139-1141.	7.1	210
85	The Nuclear Receptor Peroxisome Proliferator-Activated Receptor-Î± Mediates the Anti-Inflammatory Actions of Palmitoylethanolamide. Molecular Pharmacology, 2005, 67, 15-19.	1.0	804
86	Ni2+, a Double-Acting Inhibitor of Neuronal Nitric Oxide Synthase Interfering with -Arginine Binding and Ca2+/Calmodulin-Dependent Enzyme Activation. Biochemical and Biophysical Research Communications, 2001, 285, 142-146.	1.0	13
87	Inhibition of neuronal nitric oxide synthase by 6-nitrocatecholamines, putative reaction products of nitric oxide with catecholamines under oxidative stress conditions. Biochemical Journal, 2001, 356, 105.	1.7	11
88	TREM2 Regulates Microglial Cholesterol Metabolism Upon Chronic Phagocytic Challenge. SSRN Electronic Journal, 0, , .	0.4	2