Pietro Franceschi

List of Publications by Year
in descending order

96	2,409	236612	243296
papers	citations	25 h-index	44 g-index

98	98	98	3968
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A Versatile Targeted Metabolomics Method for the Rapid Quantification of Multiple Classes of Phenolics in Fruits and Beverages. Journal of Agricultural and Food Chemistry, 2012, 60, 8831-8840.	2.4	267
2	Nutrimetabolomics: An Integrative Action for Metabolomic Analyses in Human Nutritional Studies. Molecular Nutrition and Food Research, 2019, 63, e1800384.	1.5	173
3	Sample Preparation for Mass Spectrometry Imaging of Plant Tissues: A Review. Frontiers in Plant Science, 2016, 7, 60.	1.7	125
4	CRITICAL REVIEW OF N, N ⁺ , N ⁺ ₂ , N ⁺⁺ , And N ⁺⁺ ₂ MAIN PRODUCTION PROCESSES AND REACTIONS OF RELEVANCE TO TITAN'S ATMOSPHERE. Astrophysical Journal, Supplement Series, 2013, 204, 20.	3.0	118
5	LC-MS based global metabolite profiling of grapes: solvent extraction protocol optimisation. Metabolomics, 2012, 8, 175-185.	1.4	72
6	Identification of Biomarkers for Defense Response to Plasmopara viticola in a Resistant Grape Variety. Frontiers in Plant Science, 2017, 8, 1524.	1.7	65
7	Two apples a day lower serum cholesterol and improve cardiometabolic biomarkers in mildly hypercholesterolemic adults: a randomized, controlled, crossover trial. American Journal of Clinical Nutrition, 2020, 111, 307-318.	2.2	63
8	A practical tool for maximal information coefficient analysis. GigaScience, 2018, 7, 1-8.	3.3	58
9	The Rpv3-3 Haplotype and Stilbenoid Induction Mediate Downy Mildew Resistance in a Grapevine Interspecific Population. Frontiers in Plant Science, 2019, 10, 234.	1.7	58
10	Regional features of northern Italian sparkling wines, identified using solid-phase micro extraction and comprehensive two-dimensional gas chromatography coupled with time-of-flight mass spectrometry. Food Chemistry, 2016, 208, 68-80.	4.2	56
11	Combining intensity correlation analysis and MALDI imaging to study the distribution of flavonols and dihydrochalcones in Golden Delicious apples. Journal of Experimental Botany, 2012, 63, 1123-1133.	2.4	54
12	Phenol Production in Benzene/Air Plasmas at Atmospheric Pressure. Role of Radical and Ionic Routes. Journal of Physical Chemistry A, 2006, 110, 7841-7847.	1.1	51
13	Characterisation and attempted differentiation of European and extra-European olive oils using stable isotope ratio analysis. Food Chemistry, 2019, 276, 782-789.	4.2	48
14	Stability-based biomarker selection. Analytica Chimica Acta, 2011, 705, 15-23.	2.6	47
15	A targeted metabolomics approach to understand differences in flavonoid biosynthesis in red and yellow raspberries. Plant Physiology and Biochemistry, 2013, 72, 79-86.	2.8	47
16	Internal energy effects in the reactivity of CO22+ doubly charged molecular ions with CO2 and CO. International Journal of Mass Spectrometry, 2003, 228, 507-516.	0.7	37
17	Use of Metabolic Profiling To Study Grape Skin Polyphenol Behavior as a Result of Canopy Microclimate Manipulation in a â€˜Pinot noirâ€™ Vineyard. Journal of Agricultural and Food Chemistry, 2013, 61, 8976-8986.	2.4	36
18	New Insights into the Reaction Mechanisms of Phenylium Ions with Benzeneâ€. Journal of Physical Chemistry A, 2007, 111, 12513-12523.	1.1	35

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19	A benchmark spikeâ€in data set for biomarker identification in metabolomics. Journal of Chemometrics, 2012, 26, 16-24.	0.7	32
20	Bond-forming reactions of dications: Production of ArO+ and ArO2+ in the reaction of Ar2+ with O2. Journal of Chemical Physics, 2003, 118, 2159-2163.	1.2	31
21	X-ray Absorption Spectroscopy of VOCl3, CrO2Cl2, and MnO3Cl: An Experimental and Theoretical Study. Journal of Physical Chemistry A, 2009, 113, 2914-2925.	1.1	30
22	Discovery of Intake Biomarkers of Lentils, Chickpeas, and White Beans by Untargeted LCâ€“MS Metabolomics in Serum and Urine. Molecular Nutrition and Food Research, 2020, 64, e1901137.	1.5	30
23	Photoionization Cross Section of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msup><mml:mi>Xe</mml:mi><mml:mo>+</mml:mo></mml:msup></mml:math>Ion in the Pure<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mn>5</mml:mn><mml:msup><mml:mi>p</mml:mi><mml:mn>5</mml:mn></mml:msup></mml:math><mml:ma xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mmultiscripts><mml:mi>P</mml:mi><mml:mrow><mml:mn>3</mml:mn><mml:mo>/</mml:mo><mml:.	2.9	29
24	MetaDB a Data Processing Workflow in Untargeted MS-Based Metabolomics Experiments. Frontiers in Bioengineering and Biotechnology, 2014, 2, 72.	2.0	29
25	Urinary metabolomic profiling to identify biomarkers of a flavonoid-rich and flavonoid-poor fruits and vegetables diet in adults: the FLAVURS trial. Metabolomics, 2016, 12, 1.	1.4	28
26	ONS: an ontology for a standardized description of interventions and observational studies in nutrition. Genes and Nutrition, 2018, 13, 12.	1.2	28
27	Chemical processes in the atmospheric pressure plasma treatment of benzene. Plasma Processes and Polymers, 2007, 4, 548-555.	1.6	26
28	Dissociative double photoionization of N2 using synchrotron radiation: Appearance energy of the N2+ dication. Journal of Chemical Physics, 2007, 126, 134310.	1.2	25
29	Constructing a mass measurement error surface to improve automatic annotations in liquid chromatography/mass spectrometry based metabolomics. Rapid Communications in Mass Spectrometry, 2013, 27, 2425-2431.	0.7	25
30	Core Microbiota and Metabolome of Vitis vinifera L. cv. Corvina Grapes and Musts. Frontiers in Microbiology, 2017, 8, 457.	1.5	24
31	Two-omics data revealed commonalities and differences between Rpv12- and Rpv3-mediated resistance in grapevine. Scientific Reports, 2020, 10, 12193.	1.6	24
32	Non-invasive real time monitoring of yeast volatilome by PTR-ToF-MS. Metabolomics, 2017, 13, 118.	1.4	22
33	Selfâ€organizing maps: A versatile tool for the automatic analysis of untargeted imaging datasets. Proteomics, 2014, 14, 853-861.	1.3	21
34	Reactions of molecular dications: collision energy dependence of integral cross-sections of processes in CHCl2+ + Ar, D2 systems from guided beam studies. International Journal of Mass Spectrometry, 2003, 228, 487-495.	0.7	20
35	Multiple comparisons in mass-spectrometry-based -omics technologies. TrAC - Trends in Analytical Chemistry, 2013, 50, 11-21.	5.8	20
36	Reactivity of C10H7+ and C10D7+ with H2 and D2. Journal of Chemical Physics, 2004, 121, 6728-6737.	1.2	19

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37	Energetics of fragmentations of indene dication from photoionization experiments. Chemical Physics Letters, 2006, 423, 254-259.	1.2	19
38	Improvement of sea fennel (Crithmum maritimum L.) nutritional value through iodine biofortification in a hydroponic floating system. Food Chemistry, 2019, 296, 150-159.	4.2	19
39	Maximum Growth Potential and Periods of Resource Limitation in Apple Tree. Frontiers in Plant Science, 2016, 7, 233.	1.7	18
40	Gas-phase synthesis and detection of the benzenediazonium ion, C6H5N2+. A joint atmospheric pressure chemical ionization and guided ion beam experiment. Rapid Communications in Mass Spectrometry, 2005, 19, 1951-1955.	0.7	17
41	Guided ion beams study of ionâ€“molecule reactions at low collision energies: The Li+â€“acetone adduct formation in the 0.10â€“1.00eV center of mass energy range. Chemical Physics Letters, 2007, 442, 28-34.	1.2	16
42	Reactions of phenylium ions C6(H,D)5+ with D2. Journal of Chemical Physics, 2003, 119, 8366-8372.	1.2	15
43	A simple and cost-effective high voltage radio frequency driver for multipolar ion guides. International Journal of Mass Spectrometry, 2007, 265, 224-229.	0.7	15
44	Overview of Dekkera bruxellensis behaviour in an ethanol-rich environment using untargeted and targeted metabolomic approaches. Food Research International, 2013, 51, 670-678.	2.9	15
45	Applying generalized additive models to unravel dynamic changes in anthocyanin biosynthesis in methyl jasmonate elicited grapevine (Vitis vinifera cv. Gamay) cell cultures. Horticulture Research, 2017, 4, 17038.	2.9	15
46	Î´³⁴S for tracing the origin of cheese and detecting its authenticity. Journal of Mass Spectrometry, 2020, 55, e4451.	0.7	15
47	Experimental and theoretical investigation of the production of cations containing Câ€“N bonds in the reaction of benzene with atomic nitrogen ions. Journal of Chemical Physics, 2003, 119, 1978-1985.	1.2	14
48	Mono-Locus and Pyramided Resistant Grapevine Cultivars Reveal Early Putative Biomarkers Upon Artificial Inoculation With Plasmopara viticola. Frontiers in Plant Science, 2021, 12, 693887.	1.7	14
49	Meta-Statistics for Variable Selection: TheRPackageBioMark. Journal of Statistical Software, 2012, 51, .	1.8	14
50	Surfactant lung delivery with LISA and InSurE in adult rabbits with respiratory distress. Pediatric Research, 2021, 90, 576-583.	1.1	13
51	Sample preparation strategy for the detection of steroid-like compounds using MALDI mass spectrometry imaging: pulmonary distribution of budesonide as a case study. Analytical and Bioanalytical Chemistry, 2021, 413, 4363-4371.	1.9	13
52	Metabolomic Characterization of Commercial, Old, and Red-Fleshed Apple Varieties. Metabolites, 2021, 11, 378.	1.3	13
53	Vibrational communication and mating behavior of the meadow spittlebug Philaenus spumarius. Entomologia Generalis, 2020, 40, 307-321.	1.1	13
54	C N bond formation in the reaction of nitrogen ions N + with benzene molecules. Chemical Physics Letters, 2001, 346, 35-40.	1.2	12

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55	Low energy charge-transfer collisions of rare gas dications: Ne2++Ne and Kr2++Kr. Chemical Physics Letters, 2004, 400, 476-480.	1.2	12
56	D-optimal design of an untargeted HS-SPME-GC-TOF metabolite profiling method. Analyst, The, 2012, 137, 3725.	1.7	12
57	Ion chemistry in gaseous discharges at atmospheric pressure. Plasma Sources Science and Technology, 2009, 18, 034005.	1.3	11
58	Comparative lipidomic study of urothelial cancer models: association with urothelial cancer cell invasiveness. Molecular BioSystems, 2016, 12, 3266-3279.	2.9	11
59	Structure and stability of oligomeric clusters produced in the ionization of acetonitrile. Chemical Physics Letters, 2005, 415, 265-270.	1.2	10
60	The intriguing case of organic impurities contained in synthetic methanol: a mass spectrometry based investigation. Rapid Communications in Mass Spectrometry, 2007, 21, 3337-3344.	0.7	10
61	Thresholding for biomarker selection in multivariate data using Higher Criticism. Molecular BioSystems, 2012, 8, 2339.	2.9	10
62	Spatial analysis of thickness variability applied to an Early Jurassic carbonate platform in the central Southern Alps (Italy): a tool to unravel synâ€sedimentary faulting. Terra Nova, 2014, 26, 239-246.	0.9	10
63	Projection to latent structures with orthogonal constraints for metabolomics data. Journal of Chemometrics, 2018, 32, e2987.	0.7	10
64	High resolution inner-shell spectroscopy and ab initio CI calculations on TiCl4 and isoelectronic moleculesElectronic supplementary information (ESI) available: All excitation energies and oscillator strengths for TiCl4, VOCl3, CrO2Cl2 and MnO3Cl, including Rydberg levels. See http://www.rsc.org/suppdata/cp/b3/b302805b/. Physical Chemistry Chemical Physics, 2003, 5, 2758.	1.3	9
65	H, C, and O Stable Isotope Ratios of Passito Wine. Journal of Agricultural and Food Chemistry, 2015, 63, 5851-5857.	2.4	9
66	Gender specific decrease of a set of circulating N-acylphosphatidyl ethanolamines (NAPEs) in the plasma of Parkinsonâ€™s disease patients. Metabolomics, 2019, 15, 74.	1.4	9
67	Excitation ofS1andS3Metastable Helium Atoms to Doubly Excited States. Physical Review Letters, 2009, 102, 153001.	2.9	8
68	Ion mobility mass spectrometric investigation of ellagitannins and their nonâ€covalent aggregates. Rapid Communications in Mass Spectrometry, 2011, 25, 827-833.	0.7	8
69	Impact of tissue surface properties on the desorption electrospray ionization imaging of organic acids in grapevine stem. Rapid Communications in Mass Spectrometry, 2016, 30, 711-718.	0.7	8
70	Mass spectrometry imaging as a tool for evaluating the pulmonary distribution of exogenous surfactant in premature lambs. Respiratory Research, 2019, 20, 175.	1.4	8
71	Vibrational playbacks and microscopy to study the signalling behaviour and female physiology of Philaenus spumarius. Journal of Applied Entomology, 2021, 145, 518-529.	0.8	8
72	Chemical synthesis in acetonitrile containing discharges. Insights from photoionization experiments with synchrotron radiation. Chemical Physics, 2012, 398, 269-277.	0.9	7

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73	IsotopicLabelling: an R package for the analysis of MS isotopic patterns of labelled analytes. Bioinformatics, 2017, 33, 300-302.	1.8	7
74	Past-in-the-Future. Peak detection improves targeted mass spectrometry imaging. Analytica Chimica Acta, 2018, 1042, 1-10.	2.6	7
75	HPLC-HRMS Global Metabolomics Approach for the Diagnosis of â€œOlive Quick Decline Syndromeâ€• Markers in Olive Trees Leaves. Metabolites, 2021, 11, 40.	1.3	7
76	High Production of Small Organic Dicarboxylate Dianions by DESI and ESI. Journal of the American Society for Mass Spectrometry, 2015, 26, 386-389.	1.2	6
77	Discovery of A-type procyanidin dimers in yellow raspberries by untargeted metabolomics and correlation based data analysis. Metabolomics, 2016, 12, 144.	1.4	6
78	Drug-Homogeneity Index in Mass-Spectrometry Imaging. Analytical Chemistry, 2018, 90, 13257-13264.	3.2	6
79	Assessing the authenticity of animal rennet using Î´15N analysis of chymosin. Food Chemistry, 2019, 293, 545-549.	4.2	6
80	Grape Lipidomics: An Extensive Profiling thorough UHPLC-MS/MS Method. Metabolites, 2021, 11, 827.	1.3	6
81	Photoionisation of ethylene clusters by synchrotron radiation in the energy range 17â€“50 eV. International Journal of Mass Spectrometry, 2002, 220, 281-288.	0.7	5
82	State-specific reactions and autoionization dynamics of Ar2+ produced by synchrotron radiation. International Journal of Mass Spectrometry, 2009, 280, 119-127.	0.7	5
83	A methodological approach to correlate tumor heterogeneity with drug distribution profile in mass spectrometry imaging data. GigaScience, 2020, 9, .	3.3	5
84	Metabolomic Characterization of Pigmented and Non-Pigmented Potato Cultivars Using a Joint and Individual Variation Explained (JIVE). Foods, 2022, 11, 1708.	1.9	5
85	TLC surface integrity affects the detection of alkali adduct ions in TLC-MALDI analysis. Analytical and Bioanalytical Chemistry, 2017, 409, 5661-5666.	1.9	4
86	The Compound Characteristics Comparison (CCC) approach: a tool for improving confidence in natural compound identification. Food Additives and Contaminants - Part A Chemistry, Analysis, Control, Exposure and Risk Assessment, 2018, 35, 2145-2157.	1.1	4
87	Projection to latent structures with orthogonal constraints for metabolomics data. Journal of Chemometrics, 2018, 32, e3047.	0.7	4
88	Formation of polynuclear copper complexes of guanine-based nucleobases in the gas phase studied by ESI-MS. International Journal of Mass Spectrometry, 2013, 354-355, 303-311.	0.7	2
89	Metabolic Biomarker Identification with Few Samples. , 0, , .		2
90	Application of a Target-Guided Data Processing Approach in Saturated Peak Correction of GCÃ—GC Analysis. Analytical Chemistry, 2022, 94, 1941-1948.	3.2	2

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91	Effect of Dairy, Season, and Sampling Position on Physical Properties of Trentingrana Cheese: Application of an LMM-ASCA Model. Foods, 2022, 11, 127.	1.9	2
92	TOFwave: reproducibility in biomarker discovery from time-of-flight mass spectrometry data. Molecular BioSystems, 2012, 8, 2845.	2.9	1
93	Data Treatment for LC-MS Untargeted Analysis. Methods in Molecular Biology, 2018, 1738, 27-39.	0.4	1
94	On the Origin and Propagation of the COVID-19 Outbreak in the Italian Province of Trento, a Tourist Region of Northern Italy. Viruses, 2022, 14, 580.	1.5	1
95	Angular effects in autoionization of3Pdoubly excited states in He. Journal of Physics: Conference Series, 2009, 194, 022052.	0.3	0
96	Surfactant-Assisted Distal Pulmonary Distribution of Budesonide Revealed by Mass Spectrometry Imaging. Pharmaceutics, 2021, 13, 868.	2.0	0