

Pietro Franceschi

List of Publications by Year in descending order

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96
papers

2,409
citations

236925

25
h-index

243625

44
g-index

98
all docs

98
docs citations

98
times ranked

3968
citing authors

#	ARTICLE	IF	CITATIONS
1	A Versatile Targeted Metabolomics Method for the Rapid Quantification of Multiple Classes of Phenolics in Fruits and Beverages. <i>Journal of Agricultural and Food Chemistry</i> , 2012, 60, 8831-8840.	5.2	267
2	Nutrimetabolomics: An Integrative Action for Metabolomic Analyses in Human Nutritional Studies. <i>Molecular Nutrition and Food Research</i> , 2019, 63, e1800384.	3.3	173
3	Sample Preparation for Mass Spectrometry Imaging of Plant Tissues: A Review. <i>Frontiers in Plant Science</i> , 2016, 7, 60.	3.6	125
4	CRITICAL REVIEW OF N, N ⁺ , N ⁺ ₂ , N ⁺ , And N ⁺ ₂ MAIN PRODUCTION PROCESSES AND REACTIONS OF RELEVANCE TO TITAN'S ATMOSPHERE. <i>Astrophysical Journal, Supplement Series</i> , 2013, 204, 20.	7.7	118
5	LC-MS based global metabolite profiling of grapes: solvent extraction protocol optimisation. <i>Metabolomics</i> , 2012, 8, 175-185.	3.0	72
6	Identification of Biomarkers for Defense Response to <i>Plasmopara viticola</i> in a Resistant Grape Variety. <i>Frontiers in Plant Science</i> , 2017, 8, 1524.	3.6	65
7	Two apples a day lower serum cholesterol and improve cardiometabolic biomarkers in mildly hypercholesterolemic adults: a randomized, controlled, crossover trial. <i>American Journal of Clinical Nutrition</i> , 2020, 111, 307-318.	4.7	63
8	A practical tool for maximal information coefficient analysis. <i>GigaScience</i> , 2018, 7, 1-8.	6.4	58
9	The Rpv3-3 Haplotype and Stilbenoid Induction Mediate Downy Mildew Resistance in a Grapevine Interspecific Population. <i>Frontiers in Plant Science</i> , 2019, 10, 234.	3.6	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. <i>Food Chemistry</i> , 2016, 208, 68-80.	8.2	56
11	Combining intensity correlation analysis and MALDI imaging to study the distribution of flavonols and dihydrochalcones in Golden Delicious apples. <i>Journal of Experimental Botany</i> , 2012, 63, 1123-1133.	4.8	54
12	Phenol Production in Benzene/Air Plasmas at Atmospheric Pressure. Role of Radical and Ionic Routes. <i>Journal of Physical Chemistry A</i> , 2006, 110, 7841-7847.	2.5	51
13	Characterisation and attempted differentiation of European and extra-European olive oils using stable isotope ratio analysis. <i>Food Chemistry</i> , 2019, 276, 782-789.	8.2	48
14	Stability-based biomarker selection. <i>Analytica Chimica Acta</i> , 2011, 705, 15-23.	5.4	47
15	A targeted metabolomics approach to understand differences in flavonoid biosynthesis in red and yellow raspberries. <i>Plant Physiology and Biochemistry</i> , 2013, 72, 79-86.	5.8	47
16	Internal energy effects in the reactivity of CO ₂ ⁺ doubly charged molecular ions with CO ₂ and CO. <i>International Journal of Mass Spectrometry</i> , 2003, 228, 507-516.	1.5	37
17	Use of Metabolic Profiling To Study Grape Skin Polyphenol Behavior as a Result of Canopy Microclimate Manipulation in a "Pinot noir"™ Vineyard. <i>Journal of Agricultural and Food Chemistry</i> , 2013, 61, 8976-8986.	5.2	36
18	New Insights into the Reaction Mechanisms of Phenylum Ions with Benzene. <i>Journal of Physical Chemistry A</i> , 2007, 111, 12513-12523.	2.5	35

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19	A benchmark spikeâ€”in data set for biomarker identification in metabolomics. <i>Journal of Chemometrics</i> , 2012, 26, 16-24.	1.3	32
20	Bond-forming reactions of dications: Production of ArO ⁺ and ArO ₂ ⁺ in the reaction of Ar ₂ ⁺ with O ₂ . <i>Journal of Chemical Physics</i> , 2003, 118, 2159-2163.	3.0	31
21	X-ray Absorption Spectroscopy of VOCl ₃ , CrO ₂ Cl ₂ , and MnO ₃ Cl: An Experimental and Theoretical Study. <i>Journal of Physical Chemistry A</i> , 2009, 113, 2914-2925.	2.5	30
22	Discovery of Intake Biomarkers of Lentils, Chickpeas, and White Beans by Untargeted LC-MS Metabolomics in Serum and Urine. <i>Molecular Nutrition and Food Research</i> , 2020, 64, e1901137.	3.3	30
23	Photoionization Cross Section of Xe^{2+} in the Pure ^{55}P in the Pure ^{55}P	7.8	29
24	MetaDB a Data Processing Workflow in Untargeted MS-Based Metabolomics Experiments. <i>Frontiers in Bioengineering and Biotechnology</i> , 2014, 2, 72.	4.1	29
25	Urinary metabolomic profiling to identify biomarkers of a flavonoid-rich and flavonoid-poor fruits and vegetables diet in adults: the FLAVURS trial. <i>Metabolomics</i> , 2016, 12, 1.	3.0	28
26	ONS: an ontology for a standardized description of interventions and observational studies in nutrition. <i>Genes and Nutrition</i> , 2018, 13, 12.	2.5	28
27	Chemical processes in the atmospheric pressure plasma treatment of benzene. <i>Plasma Processes and Polymers</i> , 2007, 4, 548-555.	3.0	26
28	Dissociative double photoionization of N ₂ using synchrotron radiation: Appearance energy of the N ₂ ⁺ dication. <i>Journal of Chemical Physics</i> , 2007, 126, 134310.	3.0	25
29	Constructing a mass measurement error surface to improve automatic annotations in liquid chromatography/mass spectrometry based metabolomics. <i>Rapid Communications in Mass Spectrometry</i> , 2013, 27, 2425-2431.	1.5	25
30	Core Microbiota and Metabolome of <i>Vitis vinifera</i> L. cv. Corvina Grapes and Musts. <i>Frontiers in Microbiology</i> , 2017, 8, 457.	3.5	24
31	Two-omics data revealed commonalities and differences between Rpv12- and Rpv3-mediated resistance in grapevine. <i>Scientific Reports</i> , 2020, 10, 12193.	3.3	24
32	Non-invasive real time monitoring of yeast volatilome by PTR-ToF-MS. <i>Metabolomics</i> , 2017, 13, 118.	3.0	22
33	Self-organizing maps: A versatile tool for the automatic analysis of untargeted imaging datasets. <i>Proteomics</i> , 2014, 14, 853-861.	2.2	21
34	Reactions of molecular dications: collision energy dependence of integral cross-sections of processes in CHCl ₂ ⁺ + Ar, D ₂ systems from guided beam studies. <i>International Journal of Mass Spectrometry</i> , 2003, 228, 487-495.	1.5	20
35	Multiple comparisons in mass-spectrometry-based -omics technologies. <i>TrAC - Trends in Analytical Chemistry</i> , 2013, 50, 11-21.	11.4	20
36	Reactivity of C ₁₀ H ₇ ⁺ and C ₁₀ D ₇ ⁺ with H ₂ and D ₂ . <i>Journal of Chemical Physics</i> , 2004, 121, 6728-6737.	3.0	19

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37	Energetics of fragmentations of indene dication from photoionization experiments. <i>Chemical Physics Letters</i> , 2006, 423, 254-259.	2.6	19
38	Improvement of sea fennel (<i>Crithmum maritimum</i> L.) nutritional value through iodine biofortification in a hydroponic floating system. <i>Food Chemistry</i> , 2019, 296, 150-159.	8.2	19
39	Maximum Growth Potential and Periods of Resource Limitation in Apple Tree. <i>Frontiers in Plant Science</i> , 2016, 7, 233.	3.6	18
40	Gas-phase synthesis and detection of the benzenediazonium ion, C ₆ H ₅ N ₂ ⁺ . A joint atmospheric pressure chemical ionization and guided ion beam experiment. <i>Rapid Communications in Mass Spectrometry</i> , 2005, 19, 1951-1955.	1.5	17
41	Guided ion beams study of ion-molecule reactions at low collision energies: The Li ⁺ -acetone adduct formation in the 0.10-1.00eV center of mass energy range. <i>Chemical Physics Letters</i> , 2007, 442, 28-34.	2.6	16
42	Reactions of phenylium ions C ₆ (H,D) ⁵⁺ with D ₂ . <i>Journal of Chemical Physics</i> , 2003, 119, 8366-8372.	3.0	15
43	A simple and cost-effective high voltage radio frequency driver for multipolar ion guides. <i>International Journal of Mass Spectrometry</i> , 2007, 265, 224-229.	1.5	15
44	Overview of <i>Dekkera bruxellensis</i> behaviour in an ethanol-rich environment using untargeted and targeted metabolomic approaches. <i>Food Research International</i> , 2013, 51, 670-678.	6.2	15
45	Applying generalized additive models to unravel dynamic changes in anthocyanin biosynthesis in methyl jasmonate elicited grapevine (<i>Vitis vinifera</i> cv. Gamay) cell cultures. <i>Horticulture Research</i> , 2017, 4, 17038.	6.3	15
46	³⁴ S for tracing the origin of cheese and detecting its authenticity. <i>Journal of Mass Spectrometry</i> , 2020, 55, e4451.	1.6	15
47	Experimental and theoretical investigation of the production of cations containing C-N bonds in the reaction of benzene with atomic nitrogen ions. <i>Journal of Chemical Physics</i> , 2003, 119, 1978-1985.	3.0	14
48	Mono-Locus and Pyramided Resistant Grapevine Cultivars Reveal Early Putative Biomarkers Upon Artificial Inoculation With <i>Plasmopara viticola</i> . <i>Frontiers in Plant Science</i> , 2021, 12, 693887.	3.6	14
49	Meta-Statistics for Variable Selection: The <i>R</i> Package <i>BioMark</i> . <i>Journal of Statistical Software</i> , 2012, 51, .	3.7	14
50	Surfactant lung delivery with LISA and InSurE in adult rabbits with respiratory distress. <i>Pediatric Research</i> , 2021, 90, 576-583.	2.3	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. <i>Analytical and Bioanalytical Chemistry</i> , 2021, 413, 4363-4371.	3.7	13
52	Metabolomic Characterization of Commercial, Old, and Red-Fleshed Apple Varieties. <i>Metabolites</i> , 2021, 11, 378.	2.9	13
53	Vibrational communication and mating behavior of the meadow spittlebug <i>Philaenus spumarius</i> . <i>Entomologia Generalis</i> , 2020, 40, 307-321.	3.1	13
54	C-N bond formation in the reaction of nitrogen ions N ⁺ with benzene molecules. <i>Chemical Physics Letters</i> , 2001, 346, 35-40.	2.6	12

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55	Low energy charge-transfer collisions of rare gas dications: Ne ²⁺⁺ Ne and Kr ²⁺⁺ Kr. <i>Chemical Physics Letters</i> , 2004, 400, 476-480.	2.6	12
56	D-optimal design of an untargeted HS-SPME-GC-TOF metabolite profiling method. <i>Analyst, The</i> , 2012, 137, 3725.	3.5	12
57	Ion chemistry in gaseous discharges at atmospheric pressure. <i>Plasma Sources Science and Technology</i> , 2009, 18, 034005.	3.1	11
58	Comparative lipidomic study of urothelial cancer models: association with urothelial cancer cell invasiveness. <i>Molecular BioSystems</i> , 2016, 12, 3266-3279.	2.9	11
59	Structure and stability of oligomeric clusters produced in the ionization of acetonitrile. <i>Chemical Physics Letters</i> , 2005, 415, 265-270.	2.6	10
60	The intriguing case of organic impurities contained in synthetic methanol: a mass spectrometry based investigation. <i>Rapid Communications in Mass Spectrometry</i> , 2007, 21, 3337-3344.	1.5	10
61	Thresholding for biomarker selection in multivariate data using Higher Criticism. <i>Molecular BioSystems</i> , 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 syn-sedimentary faulting. <i>Terra Nova</i> , 2014, 26, 239-246.	2.1	10
63	Projection to latent structures with orthogonal constraints for metabolomics data. <i>Journal of Chemometrics</i> , 2018, 32, e2987.	1.3	10
64	High resolution inner-shell spectroscopy and ab initio CI calculations on TiCl ₄ and isoelectronic molecules. Electronic supplementary information (ESI) available: All excitation energies and oscillator strengths for TiCl ₄ , VOCl ₃ , CrO ₂ Cl ₂ and MnO ₃ Cl, including Rydberg levels. See http://www.rsc.org/suppdata/cp/b3/b302805b/ . <i>Physical Chemistry Chemical Physics</i> , 2003, 5, 2758.	2.8	9
65	H, C, and O Stable Isotope Ratios of Passito Wine. <i>Journal of Agricultural and Food Chemistry</i> , 2015, 63, 5851-5857.	5.2	9
66	Gender specific decrease of a set of circulating N-acylphosphatidyl ethanolamines (NAPEs) in the plasma of Parkinson's disease patients. <i>Metabolomics</i> , 2019, 15, 74.	3.0	9
67	Excitation of S ₁ and S ₃ Metastable Helium Atoms to Doubly Excited States. <i>Physical Review Letters</i> , 2009, 102, 153001.	7.8	8
68	Ion mobility mass spectrometric investigation of ellagitannins and their non-covalent aggregates. <i>Rapid Communications in Mass Spectrometry</i> , 2011, 25, 827-833.	1.5	8
69	Impact of tissue surface properties on the desorption electrospray ionization imaging of organic acids in grapevine stem. <i>Rapid Communications in Mass Spectrometry</i> , 2016, 30, 711-718.	1.5	8
70	Mass spectrometry imaging as a tool for evaluating the pulmonary distribution of exogenous surfactant in premature lambs. <i>Respiratory Research</i> , 2019, 20, 175.	3.6	8
71	Vibrational playbacks and microscopy to study the signalling behaviour and female physiology of <i>Philaenus spumarius</i> . <i>Journal of Applied Entomology</i> , 2021, 145, 518-529.	1.8	8
72	Chemical synthesis in acetonitrile containing discharges. Insights from photoionization experiments with synchrotron radiation. <i>Chemical Physics</i> , 2012, 398, 269-277.	1.9	7

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73	IsotopicLabelling: an R package for the analysis of MS isotopic patterns of labelled analytes. <i>Bioinformatics</i> , 2017, 33, 300-302.	4.1	7
74	Past-in-the-Future. Peak detection improves targeted mass spectrometry imaging. <i>Analytica Chimica Acta</i> , 2018, 1042, 1-10.	5.4	7
75	HPLC-HRMS Global Metabolomics Approach for the Diagnosis of "Olive Quick Decline Syndrome" Markers in Olive Trees Leaves. <i>Metabolites</i> , 2021, 11, 40.	2.9	7
76	High Production of Small Organic Dicarboxylate Dianions by DESI and ESI. <i>Journal of the American Society for Mass Spectrometry</i> , 2015, 26, 386-389.	2.8	6
77	Discovery of A-type procyanidin dimers in yellow raspberries by untargeted metabolomics and correlation based data analysis. <i>Metabolomics</i> , 2016, 12, 144.	3.0	6
78	Drug-Homogeneity Index in Mass-Spectrometry Imaging. <i>Analytical Chemistry</i> , 2018, 90, 13257-13264.	6.5	6
79	Assessing the authenticity of animal rennet using ^{15}N analysis of chymosin. <i>Food Chemistry</i> , 2019, 293, 545-549.	8.2	6
80	Grape Lipidomics: An Extensive Profiling thorough UHPLC-MS/MS Method. <i>Metabolites</i> , 2021, 11, 827.	2.9	6
81	Photoionisation of ethylene clusters by synchrotron radiation in the energy range 17-50 eV. <i>International Journal of Mass Spectrometry</i> , 2002, 220, 281-288.	1.5	5
82	State-specific reactions and autoionization dynamics of Ar^{2+} produced by synchrotron radiation. <i>International Journal of Mass Spectrometry</i> , 2009, 280, 119-127.	1.5	5
83	A methodological approach to correlate tumor heterogeneity with drug distribution profile in mass spectrometry imaging data. <i>GigaScience</i> , 2020, 9, .	6.4	5
84	Metabolomic Characterization of Pigmented and Non-Pigmented Potato Cultivars Using a Joint and Individual Variation Explained (JIVE). <i>Foods</i> , 2022, 11, 1708.	4.3	5
85	TLC surface integrity affects the detection of alkali adduct ions in TLC-MALDI analysis. <i>Analytical and Bioanalytical Chemistry</i> , 2017, 409, 5661-5666.	3.7	4
86	The Compound Characteristics Comparison (CCC) approach: a tool for improving confidence in natural compound identification. <i>Food Additives and Contaminants - Part A Chemistry, Analysis, Control, Exposure and Risk Assessment</i> , 2018, 35, 2145-2157.	2.3	4
87	Projection to latent structures with orthogonal constraints for metabolomics data. <i>Journal of Chemometrics</i> , 2018, 32, e3047.	1.3	4
88	Formation of polynuclear copper complexes of guanine-based nucleobases in the gas phase studied by ESI-MS. <i>International Journal of Mass Spectrometry</i> , 2013, 354-355, 303-311.	1.5	2
89	Metabolic Biomarker Identification with Few Samples. , 0, , .		2
90	Application of a Target-Guided Data Processing Approach in Saturated Peak Correction of GC-MS Analysis. <i>Analytical Chemistry</i> , 2022, 94, 1941-1948.	6.5	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. <i>Foods</i> , 2022, 11, 127.	4.3	2
92	TOFwave: reproducibility in biomarker discovery from time-of-flight mass spectrometry data. <i>Molecular BioSystems</i> , 2012, 8, 2845.	2.9	1
93	Data Treatment for LC-MS Untargeted Analysis. <i>Methods in Molecular Biology</i> , 2018, 1738, 27-39.	0.9	1
94	On the Origin and Propagation of the COVID-19 Outbreak in the Italian Province of Trento, a Tourist Region of Northern Italy. <i>Viruses</i> , 2022, 14, 580.	3.3	1
95	Angular effects in autoionization of 3Pdoubly excited states in He. <i>Journal of Physics: Conference Series</i> , 2009, 194, 022052.	0.4	0
96	Surfactant-Assisted Distal Pulmonary Distribution of Budesonide Revealed by Mass Spectrometry Imaging. <i>Pharmaceutics</i> , 2021, 13, 868.	4.5	0