

Pietro Franceschi

List of Publications by Year in descending order

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Version: 2024-02-01

96
papers

2,409
citations

236612

25
h-index

243296

44
g-index

98
all docs

98
docs citations

98
times ranked

3968
citing authors

#	ARTICLE	IF	CITATIONS
1	Application of a Target-Guided Data Processing Approach in Saturated Peak Correction of GC \AA —GC Analysis. <i>Analytical Chemistry</i> , 2022, 94, 1941-1948.	3.2	2
2	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.	1.9	2
3	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.	1.5	1
4	Metabolomic Characterization of Pigmented and Non-Pigmented Potato Cultivars Using a Joint and Individual Variation Explained (JIVE). <i>Foods</i> , 2022, 11, 1708.	1.9	5
5	HPLC-HRMS Global Metabolomics Approach for the Diagnosis of "Olive Quick Decline Syndrome" Markers in Olive Trees Leaves. <i>Metabolites</i> , 2021, 11, 40.	1.3	7
6	Surfactant lung delivery with LISA and InSurE in adult rabbits with respiratory distress. <i>Pediatric Research</i> , 2021, 90, 576-583.	1.1	13
7	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.	0.8	8
8	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.	1.9	13
9	Surfactant-Assisted Distal Pulmonary Distribution of Budesonide Revealed by Mass Spectrometry Imaging. <i>Pharmaceutics</i> , 2021, 13, 868.	2.0	0
10	Metabolomic Characterization of Commercial, Old, and Red-Fleshed Apple Varieties. <i>Metabolites</i> , 2021, 11, 378.	1.3	13
11	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.	1.7	14
12	Grape Lipidomics: An Extensive Profiling thorough UHPLC-MS/MS Method. <i>Metabolites</i> , 2021, 11, 827.	1.3	6
13	$\delta^{13}\text{C}$ for tracing the origin of cheese and detecting its authenticity. <i>Journal of Mass Spectrometry</i> , 2020, 55, e4451.	0.7	15
14	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.	2.2	63
15	Two-omics data revealed commonalities and differences between Rpv12- and Rpv3-mediated resistance in grapevine. <i>Scientific Reports</i> , 2020, 10, 12193.	1.6	24
16	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.	1.5	30
17	Vibrational communication and mating behavior of the meadow spittlebug <i>Philaenus spumarius</i> . <i>Entomologia Generalis</i> , 2020, 40, 307-321.	1.1	13
18	A methodological approach to correlate tumor heterogeneity with drug distribution profile in mass spectrometry imaging data. <i>GigaScience</i> , 2020, 9, .	3.3	5

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19	Mass spectrometry imaging as a tool for evaluating the pulmonary distribution of exogenous surfactant in premature lambs. <i>Respiratory Research</i> , 2019, 20, 175.	1.4	8
20	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.	4.2	19
21	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.	1.4	9
22	Assessing the authenticity of animal rennet using $\delta^{15}\text{N}$ analysis of chymosin. <i>Food Chemistry</i> , 2019, 293, 545-549.	4.2	6
23	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.	1.7	58
24	Nutrimetabolomics: An Integrative Action for Metabolomic Analyses in Human Nutritional Studies. <i>Molecular Nutrition and Food Research</i> , 2019, 63, e1800384.	1.5	173
25	Characterisation and attempted differentiation of European and extra-European olive oils using stable isotope ratio analysis. <i>Food Chemistry</i> , 2019, 276, 782-789.	4.2	48
26	Projection to latent structures with orthogonal constraints for metabolomics data. <i>Journal of Chemometrics</i> , 2018, 32, e2987.	0.7	10
27	A practical tool for maximal information coefficient analysis. <i>GigaScience</i> , 2018, 7, 1-8.	3.3	58
28	Data Treatment for LC-MS Untargeted Analysis. <i>Methods in Molecular Biology</i> , 2018, 1738, 27-39.	0.4	1
29	ONS: an ontology for a standardized description of interventions and observational studies in nutrition. <i>Genes and Nutrition</i> , 2018, 13, 12.	1.2	28
30	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.	1.1	4
31	Drug-Homogeneity Index in Mass-Spectrometry Imaging. <i>Analytical Chemistry</i> , 2018, 90, 13257-13264.	3.2	6
32	Past-in-the-Future. Peak detection improves targeted mass spectrometry imaging. <i>Analytica Chimica Acta</i> , 2018, 1042, 1-10.	2.6	7
33	Projection to latent structures with orthogonal constraints for metabolomics data. <i>Journal of Chemometrics</i> , 2018, 32, e3047.	0.7	4
34	TLC surface integrity affects the detection of alkali adduct ions in TLC-MALDI analysis. <i>Analytical and Bioanalytical Chemistry</i> , 2017, 409, 5661-5666.	1.9	4
35	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.	2.9	15
36	IsotopicLabelling: an R package for the analysis of MS isotopic patterns of labelled analytes. <i>Bioinformatics</i> , 2017, 33, 300-302.	1.8	7

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37	Non-invasive real time monitoring of yeast volatilome by PTR-ToF-MS. <i>Metabolomics</i> , 2017, 13, 118.	1.4	22
38	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.	1.7	65
39	Core Microbiota and Metabolome of <i>Vitis vinifera</i> L. cv. Corvina Grapes and Musts. <i>Frontiers in Microbiology</i> , 2017, 8, 457.	1.5	24
40	Sample Preparation for Mass Spectrometry Imaging of Plant Tissues: A Review. <i>Frontiers in Plant Science</i> , 2016, 7, 60.	1.7	125
41	Maximum Growth Potential and Periods of Resource Limitation in Apple Tree. <i>Frontiers in Plant Science</i> , 2016, 7, 233.	1.7	18
42	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.	0.7	8
43	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.	4.2	56
44	Comparative lipidomic study of urothelial cancer models: association with urothelial cancer cell invasiveness. <i>Molecular BioSystems</i> , 2016, 12, 3266-3279.	2.9	11
45	Discovery of A-type procyanidin dimers in yellow raspberries by untargeted metabolomics and correlation based data analysis. <i>Metabolomics</i> , 2016, 12, 144.	1.4	6
46	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.	1.4	28
47	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.	1.2	6
48	H, C, and O Stable Isotope Ratios of Passito Wine. <i>Journal of Agricultural and Food Chemistry</i> , 2015, 63, 5851-5857.	2.4	9
49	MetaDB a Data Processing Workflow in Untargeted MS-Based Metabolomics Experiments. <i>Frontiers in Bioengineering and Biotechnology</i> , 2014, 2, 72.	2.0	29
50	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.	0.9	10
51	Self-organizing maps: A versatile tool for the automatic analysis of untargeted imaging datasets. <i>Proteomics</i> , 2014, 14, 853-861.	1.3	21
52	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.	2.4	36
53	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.	2.9	15
54	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.	0.7	2

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55	Multiple comparisons in mass-spectrometry-based -omics technologies. <i>TrAC - Trends in Analytical Chemistry</i> , 2013, 50, 11-21.	5.8	20
56	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.	3.0	118
57	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.	2.8	47
58	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.	0.7	25
59	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.	2.4	54
60	Thresholding for biomarker selection in multivariate data using Higher Criticism. <i>Molecular BioSystems</i> , 2012, 8, 2339.	2.9	10
61	TOFwave: reproducibility in biomarker discovery from time-of-flight mass spectrometry data. <i>Molecular BioSystems</i> , 2012, 8, 2845.	2.9	1
62	D-optimal design of an untargeted HS-SPME-GC-TOF metabolite profiling method. <i>Analyst, The</i> , 2012, 137, 3725.	1.7	12
63	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.	2.4	267
64	LC-MS based global metabolite profiling of grapes: solvent extraction protocol optimisation. <i>Metabolomics</i> , 2012, 8, 175-185.	1.4	72
65	Chemical synthesis in acetonitrile containing discharges. Insights from photoionization experiments with synchrotron radiation. <i>Chemical Physics</i> , 2012, 398, 269-277.	0.9	7
66	A benchmark spike-in data set for biomarker identification in metabolomics. <i>Journal of Chemometrics</i> , 2012, 26, 16-24.	0.7	32
67	Meta-Statistics for Variable Selection: The <i>R</i> Package <i>BioMark</i> . <i>Journal of Statistical Software</i> , 2012, 51, .	1.8	14
68	Stability-based biomarker selection. <i>Analytica Chimica Acta</i> , 2011, 705, 15-23.	2.6	47
69	Ion mobility mass spectrometric investigation of ellagitannins and their non-covalent aggregates. <i>Rapid Communications in Mass Spectrometry</i> , 2011, 25, 827-833.	0.7	8
70	State-specific reactions and autoionization dynamics of Ar ²⁺ produced by synchrotron radiation. <i>International Journal of Mass Spectrometry</i> , 2009, 280, 119-127.	0.7	5
71	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.	1.1	30
72	Excitation of S ₁ and S ₃ Metastable Helium Atoms to Doubly Excited States. <i>Physical Review Letters</i> , 2009, 102, 153001.	2.9	8

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73	Ion chemistry in gaseous discharges at atmospheric pressure. Plasma Sources Science and Technology, 2009, 18, 034005.	1.3	11
74	Angular effects in autoionization of 3Pdoubly excited states in He. Journal of Physics: Conference Series, 2009, 194, 022052.	0.3	0
75	Photoionization Cross Section of Xe^+ Ion in the Pure p^5 State. http://www.w3.org/1998/Math/MathML display="inline">P_{p^5}	2.9	29
76	Dissociative double photoionization of N ₂ using synchrotron radiation: Appearance energy of the N ₂ ⁺ dication. Journal of Chemical Physics, 2007, 126, 134310.	1.2	25
77	New Insights into the Reaction Mechanisms of Phenylum Ions with Benzene. Journal of Physical Chemistry A, 2007, 111, 12513-12523.	1.1	35
78	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. Chemical Physics Letters, 2007, 442, 28-34.	1.2	16
79	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
80	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
81	Chemical processes in the atmospheric pressure plasma treatment of benzene. Plasma Processes and Polymers, 2007, 4, 548-555.	1.6	26
82	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
83	Energetics of fragmentations of indene dication from photoionization experiments. Chemical Physics Letters, 2006, 423, 254-259.	1.2	19
84	Structure and stability of oligomeric clusters produced in the ionization of acetonitrile. Chemical Physics Letters, 2005, 415, 265-270.	1.2	10
85	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. Rapid Communications in Mass Spectrometry, 2005, 19, 1951-1955.	0.7	17
86	Reactivity of C ₁₀ H ₇ ⁺ and C ₁₀ D ₇ ⁺ with H ₂ and D ₂ . Journal of Chemical Physics, 2004, 121, 6728-6737.	1.2	19
87	Low energy charge-transfer collisions of rare gas dications: Ne ²⁺ -Ne and Kr ²⁺ -Kr. Chemical Physics Letters, 2004, 400, 476-480.	1.2	12
88	Reactions of molecular dications: collision energy dependence of integral cross-sections of processes in CHCl ₂ ⁺ + Ar, D ₂ systems from guided beam studies. International Journal of Mass Spectrometry, 2003, 228, 487-495.	0.7	20
89	Internal energy effects in the reactivity of CO ₂ ²⁺ doubly charged molecular ions with CO ₂ and CO. International Journal of Mass Spectrometry, 2003, 228, 507-516.	0.7	37
90	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/ . Physical Chemistry Chemical Physics, 2003, 5, 2758.	1.3	9

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91	Reactions of phenylium ions C ₆ (H,D) ⁵⁺ with D ₂ . Journal of Chemical Physics, 2003, 119, 8366-8372.	1.2	15
92	Bond-forming reactions of dications: Production of ArO ⁺ and ArO ₂ ⁺ in the reaction of Ar ₂ ²⁺ with O ₂ . Journal of Chemical Physics, 2003, 118, 2159-2163.	1.2	31
93	Experimental and theoretical investigation of the production of cations containing C≡N bonds in the reaction of benzene with atomic nitrogen ions. Journal of Chemical Physics, 2003, 119, 1978-1985.	1.2	14
94	Photoionisation of ethylene clusters by synchrotron radiation in the energy range 17–50 eV. International Journal of Mass Spectrometry, 2002, 220, 281-288.	0.7	5
95	C N bond formation in the reaction of nitrogen ions N ⁺ with benzene molecules. Chemical Physics Letters, 2001, 346, 35-40.	1.2	12
96	Metabolic Biomarker Identification with Few Samples. , 0, , .		2