

Alessandra Tata

List of Publications by Year in descending order

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Version: 2024-02-01

61
papers

1,349
citations

304743

22
h-index

377865

34
g-index

62
all docs

62
docs citations

62
times ranked

1748
citing authors

#	ARTICLE	IF	CITATIONS
1	Direct analysis of Stevia leaves for diterpene glycosides by desorption electrospray ionization mass spectrometry. <i>Analyst</i> , The, 2009, 134, 867.	3.5	108
2	Phosphatidylcholine and Sphingomyelin Profiles Vary in <i>Bos taurus indicus</i> and <i>Bos taurus taurus</i> In Vitro- and In Vivo-Produced Blastocysts. <i>Biology of Reproduction</i> , 2012, 87, 130.	2.7	98
3	Rapid Detection of Necrosis in Breast Cancer with Desorption Electrospray Ionization Mass Spectrometry. <i>Scientific Reports</i> , 2016, 6, 35374.	3.3	57
4	Bacterial identification: from the agar plate to the mass spectrometer. <i>RSC Advances</i> , 2013, 3, 994-1008.	3.6	54
5	Ambient Mass Spectrometry Imaging with Picosecond Infrared Laser Ablation Electrospray Ionization (PIR-LAESI). <i>Analytical Chemistry</i> , 2015, 87, 12071-12079.	6.5	49
6	Lipidome signatures in early bovine embryo development. <i>Theriogenology</i> , 2016, 86, 472-484.e1.	2.1	49
7	Imprint Desorption Electrospray Ionization Mass Spectrometry Imaging for Monitoring Secondary Metabolites Production during Antagonistic Interaction of Fungi. <i>Analytical Chemistry</i> , 2015, 87, 12298-12305.	6.5	43
8	Analysis of Metabolic Changes in Plant Pathosystems by Imprint Imaging DESI-MS. <i>Journal of the American Society for Mass Spectrometry</i> , 2015, 26, 641-648.	2.8	43
9	Chemical Composition of Lipids Present in Cat and Dog Oocyte by Matrix-Assisted Desorption Ionization Mass Spectrometry (MALDI-MS). <i>Reproduction in Domestic Animals</i> , 2012, 47, 113-117.	1.4	42
10	Monitoring Toxic Ionic Liquids in Zebrafish (<i>Danio rerio</i>) with Desorption Electrospray Ionization Mass Spectrometry Imaging (DESI-MSI). <i>Journal of the American Society for Mass Spectrometry</i> , 2017, 28, 1136-1148.	2.8	42
11	Wide-field tissue polarimetry allows efficient localized mass spectrometry imaging of biological tissues. <i>Chemical Science</i> , 2016, 7, 2162-2169.	7.4	41
12	Electron Transfer Kinetics of Microperoxidase-1 Covalently Immobilised onto the Surface of Multi-Walled Carbon Nanotubes by Reactive Landing of Mass-Selected Ions. <i>Chemistry - A European Journal</i> , 2009, 15, 7359-7367.	3.3	40
13	Nanoassisted Laser Desorption-Ionization-MS Imaging of Tumors. <i>Analytical Chemistry</i> , 2012, 84, 6341-6345.	6.5	38
14	Optimal single-embryo mass spectrometry fingerprinting. <i>Journal of Mass Spectrometry</i> , 2013, 48, 844-849.	1.6	36
15	Soft-Landed Protein Voltammetry: A Tool for Redox Protein Characterization. <i>Analytical Chemistry</i> , 2008, 80, 5937-5944.	6.5	35
16	Contrast Agent Mass Spectrometry Imaging Reveals Tumor Heterogeneity. <i>Analytical Chemistry</i> , 2015, 87, 7683-7689.	6.5	31
17	Oregano authentication by mid-level data fusion of chemical fingerprint signatures acquired by ambient mass spectrometry. <i>Food Control</i> , 2021, 126, 108058.	5.5	27
18	Evaluation of imprint DESI-MS substrates for the analysis of fungal metabolites. <i>RSC Advances</i> , 2015, 5, 75458-75464.	3.6	26

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19	Phospholipid Profile and Distribution in the Receptive Oviduct and Uterus During Early Diestrus in Cattle. <i>Biology of Reproduction</i> , 2016, 95, 127-127.	2.7	25
20	High throughput MS techniques for caviar lipidomics. <i>Analytical Methods</i> , 2014, 6, 2436.	2.7	24
21	Soft landed protein voltammetry. <i>Chemical Communications</i> , 2007, , 3494.	4.1	23
22	Chemically Modified Multiwalled Carbon Nanotubes Electrodes with Ferrocene Derivatives through Reactive Landing. <i>Journal of Physical Chemistry C</i> , 2011, 115, 4863-4871.	3.1	23
23	An Assessment of the Utility of Tissue Smears in Rapid Cancer Profiling with Desorption Electrospray Ionization Mass Spectrometry (DESI-MS). <i>Journal of the American Society for Mass Spectrometry</i> , 2017, 28, 145-153.	2.8	23
24	Detection of soft-refined oils in extra virgin olive oil using data fusion approaches for LC-MS, GC-IMS and FGC-Enose techniques: The winning synergy of GC-IMS and FGC-Enose. <i>Food Control</i> , 2022, 133, 108645.	5.5	22
25	Effects of n-6 and n-3 polyunsaturated acid-rich soybean phosphatidylcholine on membrane lipid profile and cryotolerance of human sperm. <i>Fertility and Sterility</i> , 2016, 106, 273-283.e6.	1.0	21
26	Authentication of forage-based milk by mid-level data fusion of (+/âˆ™) DART-HRMS signatures. <i>International Dairy Journal</i> , 2021, 112, 104859.	3.0	21
27	Microorganisms in cryopreserved semen and culture media used in the in vitro production (IVP) of bovine embryos identified by matrix-assisted laser desorption ionization mass spectrometry (MALDI-MS). <i>Theriogenology</i> , 2013, 80, 337-345.	2.1	20
28	Separation of glycosidic cationomers by TWIM-MS using CO ₂ as a drift gas. <i>Journal of Mass Spectrometry</i> , 2015, 50, 336-343.	1.6	19
29	New strategies for the differentiation of fresh and frozen/thawed fish: A rapid and accurate non-targeted method by ambient mass spectrometry and data fusion (part A). <i>Food Control</i> , 2021, 130, 108364.	5.5	17
30	Variations in the Abundance of Lipid Biomarker Ions in Mass Spectrometry Images Correlate to Tissue Density. <i>Analytical Chemistry</i> , 2016, 88, 12099-12107.	6.5	16
31	Influence of spermatozoal lipidomic profile on the cryoresistance of frozen spermatozoa from stallions. <i>Theriogenology</i> , 2018, 108, 161-166.	2.1	16
32	Multiplatform Investigation of Plasma and Tissue Lipid Signatures of Breast Cancer Using Mass Spectrometry Tools. <i>International Journal of Molecular Sciences</i> , 2020, 21, 3611.	4.1	16
33	Lipid profiles of follicular fluid from cows submitted to ovarian superstimulation. <i>Theriogenology</i> , 2017, 94, 64-70.	2.1	14
34	MALDI mass spectrometry reveals that cumulus cells modulate the lipid profile of in vitro-matured bovine oocytes. <i>Systems Biology in Reproductive Medicine</i> , 2017, 63, 86-99.	2.1	14
35	From vacuum to atmospheric pressure: A review of ambient ion soft landing. <i>International Journal of Mass Spectrometry</i> , 2020, 450, 116309.	1.5	14
36	Lipid characterization of in vitro-produced bovine embryos with distinct kinetics of development. <i>Zygote</i> , 2019, 27, 413-422.	1.1	13

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37	Spatial distribution of theobromine – a low MW drug – in tissues via matrix-free NALDI-MS imaging. <i>Drug Testing and Analysis</i> , 2014, 6, 949-952.	2.6	11
38	Rapid determination of the tumour stroma ratio in squamous cell carcinomas with desorption electrospray ionization mass spectrometry (DESI-MS): a proof-of-concept demonstration. <i>Analyst</i> , The, 2017, 142, 3250-3260.	3.5	11
39	Lipid Profiling in Cancer Diagnosis with Hand-Held Ambient Mass Spectrometry Probes: Addressing the Late-Stage Performance Concerns. <i>Metabolites</i> , 2021, 11, 660.	2.9	11
40	Serum Metabolomic Profiles of Paratuberculosis Infected and Infectious Dairy Cattle by Ambient Mass Spectrometry. <i>Frontiers in Veterinary Science</i> , 2020, 7, 625067.	2.2	9
41	The use of a commercial ESI Z-spray source for ambient ion soft landing and microdroplet reactivity experiments. <i>International Journal of Mass Spectrometry</i> , 2021, 468, 116658.	1.5	9
42	Ambient mass spectrometry for rapid authentication of milk from Alpine or lowland forage. <i>Scientific Reports</i> , 2022, 12, 7360.	3.3	9
43	Low-energy collisionally activated dissociation of pentose-borate complexes. <i>International Journal of Mass Spectrometry</i> , 2010, 289, 76-83.	1.5	8
44	Effect of soybean phosphatidylcholine on lipid profile of bovine oocytes matured in vitro. <i>Chemistry and Physics of Lipids</i> , 2017, 204, 76-84.	3.2	8
45	Major phytopathogens and strains from cocoa (<i>Theobroma cacao</i> L.) are differentiated by MALDI-MS lipid and/or peptide/protein profiles. <i>Analytical and Bioanalytical Chemistry</i> , 2017, 409, 1765-1777.	3.7	8
46	New strategies for the differentiation of fresh and frozen/thawed fish: Non-targeted metabolomics by LC-HRMS (part B). <i>Food Control</i> , 2022, 132, 108461.	5.5	8
47	Geographical identification of Italian extra virgin olive oil by the combination of near infrared and Raman spectroscopy: A feasibility study. <i>Journal of Near Infrared Spectroscopy</i> , 2021, 29, 359-365.	1.5	8
48	Gas-phase ion chemistry of BF ₃ /CH ₄ mixtures: Activation of methane by CF_3^+ . <i>Journal of Mass Spectrometry</i> , 2019, 54, 1750-1758.	2.6	7
49	Breaking Through the Barrier. <i>Clinics in Laboratory Medicine</i> , 2021, 41, 221-246.	1.4	7
50	Assessing direct analysis in real-time mass spectrometry for the identification and serotyping of <i>Legionella pneumophila</i> . <i>Journal of Applied Microbiology</i> , 2022, 132, 1479-1488.	3.1	7
51	Rapid detection of asperphenamate in a hay batch associated with constipation and deaths in dairy cattle. The application of DART-HRMS to veterinary forensic toxicology. <i>Toxicon</i> , 2020, 187, 122-128.	1.6	6
52	Short communication: Identification of <i>Corynebacterium bovis</i> by MALDI-mass spectrometry. <i>Journal of Dairy Science</i> , 2017, 100, 4287-4289.	3.4	5
53	Potential impact of tissue molecular heterogeneity on ambient mass spectrometry profiles: a note of caution in choosing the right disease model. <i>Analytical and Bioanalytical Chemistry</i> , 2021, 413, 2655-2664.	3.7	5
54	Cationomers and anionomers: unique classes of isomeric ions. <i>Rapid Communications in Mass Spectrometry</i> , 2016, 30, 1249-1252.	1.5	4

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55	Dataset on lipid profile of bovine oocytes exposed to L ¹ -phosphatidylcholine during in vitro maturation investigated by MALDI mass spectrometry and gas chromatography-flame ionization detection. <i>Data in Brief</i> , 2017, 13, 480-486.	1.0	3
56	Ambient laser-based mass spectrometry analysis methods: a survey of core technologies and reported applications. , 2020, , 119-169.		2
57	An EM-type approach for classification of bivariate MALDI-MS data and identification of high fertility markers. <i>Environmetrics</i> , 2019, 30, e2544.	1.4	1
58	Study of lipid profile by mass spectrometry of in vitro maturation medium, oocytes and preimplantation embryos. <i>Fertility and Sterility</i> , 2013, 100, S229.	1.0	0
59	Abstract 741: Rapid detection of necrosis in breast cancer with ex vivo and in situ mass spectrometry analysis methods. , 2017, , .		0
60	Abstract 4118: Rapid, non-subjective characterization of disease in preclinical cancer research using desorption electrospray ionization mass spectrometry. , 2018, , .		0
61	Combination of vibrational spectroscopy, mass spectrometry and chemometrics in an innovative food chemistry laboratory of the Italian health authority and research organization for animal health and food safety: Istituto Zooprofilattico Sperimentale delle Venezie (IZSVe). <i>NIR News</i> , 0, , 096033602210759.	0.3	0