Gaud Dervilly-Pinel

List of Publications by Year
in descending order

117 papers	3,812 citations	109137 35 h-index	161609 54 g-index
120 all docs	120 docs citations	120 times ranked	4134 citing authors

#	Article	IF	Citations
1	In vitro assessment of polychlorinated biphenyl bioaccessibility in meat: Influence of fat content, cooking level and consumer age on consumer uptake. Food Chemistry, 2022, 374, 131623.	4.2	4
2	The Promise and Challenges of Determining Recombinant Bovine Growth Hormone in Milk. Foods, 2022, 11, 274.	1.9	3
3	From a nonâ€targeted metabolomics approach to a targeted biomarkers strategy to highlight testosterone abuse in equine. Illustration of a methodological transfer between platforms and laboratories. Drug Testing and Analysis, 2022, 14, 864-878.	1.6	8
4	Metabolomics and lipidomics to identify biomarkers of effect related to exposure to non-dioxin-like polychlorinated biphenyls in pigs. Chemosphere, 2022, 296, 133957.	4.2	5
5	Thorough investigation of non-volatile substances extractible from inner coatings of metallic cans and their occurrence in the canned vegetables. Journal of Hazardous Materials, 2022, 435, 129026.	6.5	4
6	Improving infant food safety by avoiding hazards of chemical mixture effects using novel integrated methods based on bioassays and analytical chemistry. , 2022, 2, 100012.		0
7	Making complex measurements of meat composition fast: Application of rapid evaporative ionisation mass spectrometry to measuring meat quality and fraud. Meat Science, 2021, 181, 108333.	2.7	30
8	Combined Nuclear Magnetic Resonance Spectroscopy and Mass Spectrometry Approaches for Metabolomics. Analytical Chemistry, 2021, 93, 500-518.	3.2	67
9	Auto-deconvolution and molecular networking of gas chromatographyâ€“mass spectrometry data. Nature Biotechnology, 2021, 39, 169-173.	9.4	78
10	Transfer of short-, medium-, and long-chain chlorinated paraffins to eggs of laying hens after dietary exposure. Food Chemistry, 2021, 343, 128491.	4.2	26
11	Dechlorane Plus and Related Compounds in Foodâ€”A Review. International Journal of Environmental Research and Public Health, 2021, 18, 690.	1.2	10
12	Extending the Lipidome Coverage by Combining Different Mass Spectrometric Platforms: An Innovative Strategy to Answer Chemical Food Safety Issues. Foods, 2021, 10, 1218.	1.9	4
13	Coupling Complete Blood Count and Steroidomics to Track Low Doses Administration of Recombinant Growth Hormone: An Anti-Doping Perspective. Frontiers in Molecular Biosciences, 2021, 8, 683675.	1.6	10
14	Nandrolone and estradiol biomarkers identification in bovine urine applying a liquid chromatography highâ€resolution mass spectrometry metabolomics approach. Drug Testing and Analysis, 2021, , .	1.6	3
15	Accumulation of short-, medium-, and long- chain chlorinated paraffins in tissues of laying hens after dietary exposure. Food Chemistry, 2021, 351, 129289.	4.2	13
16	Data analysis strategies for the characterization of chemical contaminant mixtures. Fish as a case study. Environment International, 2021, 155, 106610.	4.8	14
17	Nontargeted LC/ESI-HRMS Detection of Polyhalogenated Compounds in Marine Mammals Stranded on French Atlantic Coasts. ACS ES&T Water, 2021, 1, 309-318.	2.3	16
18	Levels of persistent organic pollutants (POPs) in foods from the first regional Sub-Saharan Africa Total Diet Study. Environment International, 2020, 135, 105413.	4.8	36

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19	Enantiomeric fraction of hexabromocyclododecanes in foodstuff from the Belgian market. Chemosphere, 2020, 260, 127607.	4.2	2
20	Addressing Main Challenges Regarding Short- and Medium-Chain Chlorinated Paraffin Analysis Using GC/ECNI-MS and LC/ESI-MS Methods. Journal of the American Society for Mass Spectrometry, 2020, 31, 1885-1895.	1.2	36
21	A role for metabolomics in the antidoping toolbox?. Drug Testing and Analysis, 2020, 12, 677-690.	1.6	22
22	Characterization of Steroids through Collision Cross Sections: Contribution of Quantum Chemistry Calculations. Analytical Chemistry, 2020, 92, 6034-6042.	3.2	12
23	Interlaboratory and Interplatform Study of Steroids Collision Cross Section by Traveling Wave Ion Mobility Spectrometry. Analytical Chemistry, 2020, 92, 5013-5022.	3.2	56
24	Do farming conditions influence brominated flame retardant levels in pig and poultry products?. Animal, 2020, 14, 1313-1321.	1.3	5
25	Optimized characterization of short-, medium, and long-chain chlorinated paraffins in liquid chromatography-high resolution mass spectrometry. Journal of Chromatography A, 2020, 1619, 460927.	1.8	23
26	Applying metabolomics to detect growth hormone administration in athletes: Proof of concept. Drug Testing and Analysis, 2020, 12, 887-899.	1.6	14
27	Assessment of Dechlorane Plus and related compounds in foodstuffs and estimates of daily intake from Lebanese population. Chemosphere, 2019, 235, 492-497.	4.2	9
28	Ion Mobility Spectrometry in Food Analysis: Principles, Current Applications and Future Trends. Molecules, 2019, 24, 2706.	1.7	113
29	Potential of ion mobility-mass spectrometry for both targeted and non-targeted analysis of phase II steroid metabolites in urine. Analytica Chimica Acta: X, 2019, 1, 100006.	2.8	28
30	Modeling the fragmentation patterns of triacylglycerides in mass spectrometry allows the quantification of the regioisomers with a minimal number of standards. Analytica Chimica Acta, 2019, 1057, 60-69.	2.6	15
31	Toward the characterisation of non-intentionally added substances migrating from polyester-polyurethane lacquers by comprehensive gas chromatography-mass spectrometry technologies. Journal of Chromatography A, 2019, 1601, 327-334.	1.8	23
32	HaloSeeker 1.0: A User-Friendly Software to Highlight Halogenated Chemicals in Nontargeted High-Resolution Mass Spectrometry Data Sets. Analytical Chemistry, 2019, 91, 3500-3507.	3.2	52
33	Ammonium Fluoride as Suitable Additive for HILIC-Based LC-HRMS Metabolomics. Metabolites, 2019, 9, 292.	1.3	19
34	Elucidation of non-intentionally added substances migrating from polyester-polyurethane lacquers using automated LC-HRMS data processing. Analytical and Bioanalytical Chemistry, 2018, 410, 5391-5403.	1.9	22
35	A multidimensional 1H NMR lipidomics workflow to address chemical food safety issues. Metabolomics, 2018, 14, 60.	1.4	32
36	Classification of trace elements in tissues from organic and conventional French pig production. Meat Science, 2018, 141, 28-35.	2.7	10

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37	Rapid evaporative ionisation mass spectrometry and chemometrics for high-throughput screening of growth promoters in meat producing animals. Food Additives and Contaminants - Part A Chemistry, Analysis, Control, Exposure and Risk Assessment, 2018, 35, 900-910.	1.1	37
38	Collision Cross Section (CCS) Database: An Additional Measure to Characterize Steroids. Analytical Chemistry, 2018, 90, 4616-4625.	3.2	85
39	Field investigation to determine the environmental source of PCBs in a pig farm. Food Chemistry, 2018, 245, 394-401.	4.2	15
40	Collision cross section (CCS) as a complementary parameter to characterize human and veterinary drugs. Analytica Chimica Acta, 2018, 1043, 52-63.	2.6	43
41	Occurence of legacy and novel brominated flame retardants in food and feed in France for the period 2014 to 2016. Chemosphere, 2018, 207, 497-506.	4.2	40
42	Effect of a Photostimulating Treatment, in Winter, on Steroids Profile and Sexual Behavior of Light Stallions. Journal of Equine Veterinary Science, 2018, 66, 66-67.	0.4	0
43	Occurrence of Dechlorane Plus and related compounds in catfish (Silurus spp.) from rivers in France. Chemosphere, 2018, 207, 413-420.	4.2	13
44	Comprehensive steroid profiling by liquid chromatography coupled to high resolution mass spectrometry. Journal of Steroid Biochemistry and Molecular Biology, 2018, 183, 106-115.	1.2	23
45	When LC-HRMS metabolomics gets ISO17025 accredited and ready for official controls â€“ application to the screening of forbidden compounds in livestock. Food Additives and Contaminants - Part A Chemistry, Analysis, Control, Exposure and Risk Assessment, 2018, 35, 1948-1958.	1.1	18
46	Ochratoxin A determination in swine muscle and liver from French conventional or organic farming production systems. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2018, 1092, 131-137.	1.2	17
47	Specific characterization of nonâ€steroidal selective androgen peceptor modulators using supercritical fluid chromatography coupled to ionâ€mobility mass spectrometry: application to the detection of enobosarm in bovine urine. Drug Testing and Analysis, 2017, 9, 179-187.	1.6	14
48	Enantiomer-specific accumulation and depuration of Î±-hexabromocyclododecane (Î±-HBCDD) in chicken () Tj ETQq0 0 0 rgBT /Overlock	4.2	7
49	Impact of storage conditions on the urinary metabolomics fingerprint. Analytica Chimica Acta, 2017, 951, 99-107.	2.6	47
50	Serum-based metabolomics characterization of pigs treated with ractopamine. Metabolomics, 2017, 13, 1.	1.4	26
51	Accumulation of Î±-hexabromocyclododecane (Î±-HBCDD) in tissues of fast- and slow-growing broilers (Gallus domesticus). Chemosphere, 2017, 178, 424-431.	4.2	9
52	Solid-phase microextraction set-up for the analysis of liver volatolome to detect livestock exposure to micropollutants. Journal of Chromatography A, 2017, 1497, 9-18.	1.8	12
53	Micropollutants and chemical residues in organic and conventional meat. Food Chemistry, 2017, 232, 218-228.	4.2	40
54	Effects of pan cooking on micropollutants in meat. Food Chemistry, 2017, 232, 395-404.	4.2	20

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55	Analytical strategies to detect enobosarm administration in bovines. Food Additives and Contaminants - Part A Chemistry, Analysis, Control, Exposure and Risk Assessment, 2017, 34, 632-640.	1.1	15
56	Exposure assessment for dioxin-like PCBs intake from organic and conventional meat integrating cooking and digestion effects. Food and Chemical Toxicology, 2017, 110, 251-261.	1.8	8
57	Hens can ingest extruded polystyrene in rearing buildings and lay eggs contaminated with hexabromocyclododecane. Chemosphere, 2017, 186, 62-67.	4.2	11
58	Current applications and perspectives of ion mobility spectrometry to answer chemical food safety issues. TrAC - Trends in Analytical Chemistry, 2017, 94, 39-53.	5.8	107
59	Optimization of fecal sample preparation for untargeted LC-HRMS based metabolomics. Metabolomics, 2017, 13, 1.	1.4	19
60	Metabolomics analysis of liver reveals profile disruption in bovines upon steroid treatment. Metabolomics, 2017, 13, 1.	1.4	10
61	Selective androgen receptor modulators: comparative excretion study of bicalutamide in bovine urine and faeces. Drug Testing and Analysis, 2017, 9, 1017-1025.	1.6	11
62	APCI as an innovative ionization mode compared with EI and CI for the analysis of a large range of organophosphate esters using GCâ€MS/MS. Journal of Mass Spectrometry, 2017, 52, 54-61.	0.7	14
63	Multidimensional NMR approaches towards highly resolved, sensitive and high-throughput quantitative metabolomics. Current Opinion in Biotechnology, 2017, 43, 49-55.	3.3	65
64	Aminoaciduria Caused by Fanconi Syndrome in a Heifer. Journal of Veterinary Internal Medicine, 2017, 31, 598-603.	0.6	2
65	Screening halogenated environmental contaminants in biota based on isotopic pattern and mass defect provided by high resolution mass spectrometry profiling. Analytica Chimica Acta, 2016, 936, 130-138.	2.6	54
66	Urinary signature of pig carcasses with boar taint by liquid chromatography-high-resolution mass spectrometry. Food Additives and Contaminants - Part A Chemistry, Analysis, Control, Exposure and Risk Assessment, 2016, 34, 1-10.	1.1	2
67	Tissue Distribution and Transfer to Eggs of Ingested Î±-Hexabromocyclododecane (Î±-HBCDD) in Laying Hens (Gallus domesticus). Journal of Agricultural and Food Chemistry, 2016, 64, 2112-2119.	2.4	22
68	Spatial Distribution of Lactococcus lactis Colonies Modulates the Production of Major Metabolites during the Ripening of a Model Cheese. Applied and Environmental Microbiology, 2016, 82, 202-210.	1.4	17
69	Measurement of phthalates diesters in food using gas chromatographyâ€“tandem mass spectrometry. Food Chemistry, 2016, 196, 211-219.	4.2	37
70	Short-term effects of a perinatal exposure to the HBCDD Î±-isomer in rats: Assessment of early motor and sensory development, spontaneous locomotor activity and anxiety in pups. Neurotoxicology and Teratology, 2015, 52, 170-180.	1.2	20
71	Direct analysis in real time â€high resolution mass spectrometry (DARTâ€HRMS): a high throughput strategy for identification and quantification of anabolic steroid esters. Drug Testing and Analysis, 2015, 7, 603-608.	1.6	30
72	LC-HRMS based metabolomics screening model to detect various Î²-agonists treatments in bovines. Metabolomics, 2015, 11, 403-411.	1.4	39

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73	Toward a New European Threshold to Discriminate Illegally Administered from Naturally Occurring Thiouracil in Livestock. Journal of Agricultural and Food Chemistry, 2015, 63, 1339-1346.	2.4	18
74	LCâ€“HRMS fingerprinting as an efficient approach to highlight fine differences in cheese metabolome during ripening. Metabolomics, 2015, 11, 1117-1130.	1.4	29
75	First insights into serum metabolomics of trenbolone/estradiol implanted bovines; screening model to predict hormone-treated and control animalsâ€™ status. Metabolomics, 2015, 11, 1184-1196.	1.4	19
76	Potential of mass spectrometry metabolomics for chemical food safety. Bioanalysis, 2015, 7, 133-146.	0.6	30
77	Clinical biochemical and hormonal profiling in plasma: a promising strategy to predict growth hormone abuse in cattle. Analytical and Bioanalytical Chemistry, 2015, 407, 4343-4349.	1.9	12
78	Analysis of glucuronide and sulfate steroids in urine by ultra-high-performance supercritical-fluid chromatography hyphenated tandem mass spectrometry. Analytical and Bioanalytical Chemistry, 2015, 407, 4473-4484.	1.9	49
79	Hydrophilic interaction (HILIC) and reverse phase liquid chromatography (RPLC)â€“high resolution MS for characterizing lipids profile disruption in serum of anabolic implanted bovines. Metabolomics, 2015, 11, 1884-1895.	1.4	21
80	Determination of a Large Set of Î²-Adrenergic Agonists in Animal Matrices Based on Ion Mobility and Mass Separations. Analytical Chemistry, 2015, 87, 9234-9242.	3.2	32
81	Global urine fingerprinting by LC-ESI(+)-HRMS for better characterization of metabolic pathway disruption upon anabolic practices in bovine. Metabolomics, 2015, 11, 184-197.	1.4	25
82	Basics of mass spectrometry based metabolomics. Proteomics, 2014, 14, 2369-2388.	1.3	95
83	Evaluation of specific gravity as normalization strategy for cattle urinary metabolome analysis. Metabolomics, 2014, 10, 627-637.	1.4	30
84	Monitoring the endogenous steroid profile disruption in urine and blood upon nandrolone administration: An efficient and innovative strategy to screen for nandrolone abuse in entire male horses. Drug Testing and Analysis, 2014, 6, 376-388.	1.6	27
85	Development and validation of a specific and sensitive gas chromatography tandem mass spectrometry method for the determination of bisphenol A residues in a large set of food items. Journal of Chromatography A, 2014, 1362, 241-249.	1.8	73
86	High Throughput Identification and Quantification of Anabolic Steroid Esters by Atmospheric Solids Analysis Probe Mass Spectrometry for Efficient Screening of Drug Preparations. Analytical Chemistry, 2014, 86, 5649-5655.	3.2	35
87	Analytical strategies to detect use of recombinant bovine somatotropin in food-producing animals. TrAC - Trends in Analytical Chemistry, 2014, 53, 1-10.	5.8	16
88	Production of polyclonal antibodies directed to recombinant methionyl bovine somatotropin. Analytica Chimica Acta, 2013, 761, 186-193.	2.6	10
89	First mass spectrometry metabolic fingerprinting of bacterial metabolism in a model cheese. Food Chemistry, 2013, 141, 1032-1040.	4.2	42
90	Human dietary exposure to polycyclic aromatic hydrocarbons: Results of the second French Total Diet Study. Environment International, 2013, 54, 11-17.	4.8	101

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91	Fast and multiresidue determination of twenty glucocorticoids in bovine milk using ultra high performance liquid chromatographyâ€“tandem mass spectrometry. Journal of Chromatography A, 2013, 1294, 76-86.	1.8	22
92	Ultra high performance liquid chromatography/tandem mass spectrometry based identification of steroid esters in serum and plasma: An efficient strategy to detect natural steroids abuse in breeding and racing animals. Journal of Chromatography A, 2013, 1284, 126-140.	1.8	36
93	Recombinant bovine growth hormone identification and the kinetic of elimination in rainbow trout treated by LC-MS/MS. Food Additives and Contaminants - Part A Chemistry, Analysis, Control, Exposure and Risk Assessment, 2013, 30, 1020-1026.	1.1	3
94	Molecularly imprinted polymer applied to the selective isolation of urinary steroid hormones: An efficient tool in the control of natural steroid hormones abuse in cattle. Journal of Chromatography A, 2012, 1270, 51-61.	1.8	26
95	Metabolomics in food analysis: application to the control of forbidden substances. Drug Testing and Analysis, 2012, 4, 59-69.	1.6	39
96	Toward a criterion for suspect thiouracil administration in animal husbandry. Food Additives and Contaminants - Part A Chemistry, Analysis, Control, Exposure and Risk Assessment, 2011, 28, 840-847.	1.1	19
97	5Î±-Estrane-3Î²,17Î²-diol and 5Î²-estrane-3Î±,17Î²-diol: Definitive screening biomarkers to sign nandrolone abuse in cattle?. Journal of Steroid Biochemistry and Molecular Biology, 2011, 126, 65-71.	1.2	11
98	Comparison of different liquid chromatography stationary phases in LCâ€HRMS metabolomics for the detection of recombinant growth hormone doping control. Journal of Separation Science, 2011, 34, 3493-3501.	1.3	23
99	Development and validation of an enzyme-linked immunosorbent assay for the detection of circulating antibodies raised against growth hormone as a consequence of rbST treatment in cows. Analytica Chimica Acta, 2011, 700, 189-193.	2.6	20
100	Assessment of two complementary liquid chromatography coupled to high resolution mass spectrometry metabolomics strategies for the screening of anabolic steroid treatment in calves. Analytica Chimica Acta, 2011, 700, 144-154.	2.6	59
101	Mass spectrometry-based metabolomics applied to the chemical safety of food. TrAC - Trends in Analytical Chemistry, 2011, 30, 292-301.	5.8	91
102	Targeted and untargeted profiling of biological fluids to screen for anabolic practices in cattle. TrAC - Trends in Analytical Chemistry, 2010, 29, 1269-1280.	5.8	73
103	Analysis of thyreostats: A history of 35 years. Analytica Chimica Acta, 2009, 637, 2-12.	2.6	37
104	Criteria to distinguish between natural situations and illegal use of boldenone, boldenone esters and boldione in cattle. Steroids, 2009, 74, 803-808.	0.8	28
105	Development of a metabolomic approach based on liquid chromatography-high resolution mass spectrometry to screen for clenbuterol abuse in calves. Analyst, The, 2009, 134, 1637.	1.7	110
106	Detection of 20â€hydroxyecdysone in calf urine by comparative liquid chromatography/highâ€resolution mass spectrometry and liquid chromatography/tandem mass spectrometry measurements: application to the control of the potential misuse of ecdysteroids in cattle. Rapid Communications in Mass Spectrometry, 2008, 22, 4073-4080.	0.7	18
107	Detection of secondary biomarker of met-eGH as a strategy to screen for somatotropin misuse in horseracing. Analyst, The, 2008, 133, 270-276.	1.7	30
108	Past, present and future of mass spectrometry in the analysis of residues of banned substances in meatâ€producing animals. Journal of Mass Spectrometry, 2007, 42, 983-998.	0.7	82

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109	Unambiguous identification of thiouracil residue in urine collected in non-treated bovine by tandem and high-resolution mass spectrometry. Rapid Communications in Mass Spectrometry, 2006, 20, 3183-3187.	0.7	19
110	Evidence that urinary excretion of thiouracil in adult bovine submitted to a cruciferous diet can give erroneous indications of the possible illegal use of thyrostats in meat production. Food Additives and Contaminants, 2006, 23, 974-980.	2.0	49
111	Multi-residue method for the determination of thyreostats in urine samples using liquid chromatography coupled to tandem mass spectrometry after derivatisation with 3-iodobenzylbromide. Journal of Chromatography A, 2005, 1085, 247-252.	1.8	50
112	Investigation of the distribution of arabinose residues on the xylan backbone of water-soluble arabinoxylans from wheat flour. Carbohydrate Polymers, 2004, 55, 171-177.	5.1	63
113	Specificity of monoclonal antibodies generated against arabinoxylans of cereal grains. Carbohydrate Polymers, 2004, 57, 425-433.	5.1	41
114	Discrimination of Recombinant and Pituitary-Derived Bovine and Porcine Growth Hormones by Peptide Mass Mapping. Journal of Agricultural and Food Chemistry, 2004, 52, 407-414.	2.4	15
115	Experimental evidence for a semi-flexible conformation for arabinoxylans. Carbohydrate Research, 2001, 330, 365-372.	1.1	109
116	Water-extractable Arabinoxylan from Pearled Flours of Wheat, Barley, Rye and Triticale. Evidence for the Presence of Ferulic Acid Dimers and their Involvement in Gel Formation. Journal of Cereal Science, 2001, 34, 207-214.	1.8	128
117	Isolation of Homogeneous Fractions from Wheat Water-Soluble Arabinoxylans. Influence of the Structure on Their Macromolecular Characteristics. Journal of Agricultural and Food Chemistry, 2000, 48, 270-278.	2.4	172