

Gaud Dervilly-Pinel

List of Publications by Year in descending order

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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	Isolation of Homogeneous Fractions from Wheat Water-Soluble Arabinoxylans. Influence of the Structure on Their Macromolecular Characteristics. <i>Journal of Agricultural and Food Chemistry</i> , 2000, 48, 270-278.	2.4	172
2	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. <i>Journal of Cereal Science</i> , 2001, 34, 207-214.	1.8	128
3	Ion Mobility Spectrometry in Food Analysis: Principles, Current Applications and Future Trends. <i>Molecules</i> , 2019, 24, 2706.	1.7	113
4	Development of a metabolomic approach based on liquid chromatography-high resolution mass spectrometry to screen for clenbuterol abuse in calves. <i>Analyst, The</i> , 2009, 134, 1637.	1.7	110
5	Experimental evidence for a semi-flexible conformation for arabinoxylans. <i>Carbohydrate Research</i> , 2001, 330, 365-372.	1.1	109
6	Current applications and perspectives of ion mobility spectrometry to answer chemical food safety issues. <i>TrAC - Trends in Analytical Chemistry</i> , 2017, 94, 39-53.	5.8	107
7	Human dietary exposure to polycyclic aromatic hydrocarbons: Results of the second French Total Diet Study. <i>Environment International</i> , 2013, 54, 11-17.	4.8	101
8	Basics of mass spectrometry based metabolomics. <i>Proteomics</i> , 2014, 14, 2369-2388.	1.3	95
9	Mass spectrometry-based metabolomics applied to the chemical safety of food. <i>TrAC - Trends in Analytical Chemistry</i> , 2011, 30, 292-301.	5.8	91
10	Collision Cross Section (CCS) Database: An Additional Measure to Characterize Steroids. <i>Analytical Chemistry</i> , 2018, 90, 4616-4625.	3.2	85
11	Past, present and future of mass spectrometry in the analysis of residues of banned substances in meat-producing animals. <i>Journal of Mass Spectrometry</i> , 2007, 42, 983-998.	0.7	82
12	Auto-deconvolution and molecular networking of gas chromatography-mass spectrometry data. <i>Nature Biotechnology</i> , 2021, 39, 169-173.	9.4	78
13	Targeted and untargeted profiling of biological fluids to screen for anabolic practices in cattle. <i>TrAC - Trends in Analytical Chemistry</i> , 2010, 29, 1269-1280.	5.8	73
14	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. <i>Journal of Chromatography A</i> , 2014, 1362, 241-249.	1.8	73
15	Combined Nuclear Magnetic Resonance Spectroscopy and Mass Spectrometry Approaches for Metabolomics. <i>Analytical Chemistry</i> , 2021, 93, 500-518.	3.2	67
16	Multidimensional NMR approaches towards highly resolved, sensitive and high-throughput quantitative metabolomics. <i>Current Opinion in Biotechnology</i> , 2017, 43, 49-55.	3.3	65
17	Investigation of the distribution of arabinose residues on the xylan backbone of water-soluble arabinoxylans from wheat flour. <i>Carbohydrate Polymers</i> , 2004, 55, 171-177.	5.1	63
18	Assessment of two complementary liquid chromatography coupled to high resolution mass spectrometry metabolomics strategies for the screening of anabolic steroid treatment in calves. <i>Analytica Chimica Acta</i> , 2011, 700, 144-154.	2.6	59

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19	Interlaboratory and Interplatform Study of Steroids Collision Cross Section by Traveling Wave Ion Mobility Spectrometry. <i>Analytical Chemistry</i> , 2020, 92, 5013-5022.	3.2	56
20	Screening halogenated environmental contaminants in biota based on isotopic pattern and mass defect provided by high resolution mass spectrometry profiling. <i>Analytica Chimica Acta</i> , 2016, 936, 130-138.	2.6	54
21	HaloSeeker 1.0: A User-Friendly Software to Highlight Halogenated Chemicals in Nontargeted High-Resolution Mass Spectrometry Data Sets. <i>Analytical Chemistry</i> , 2019, 91, 3500-3507.	3.2	52
22	Multi-residue method for the determination of thyreostats in urine samples using liquid chromatography coupled to tandem mass spectrometry after derivatisation with 3-iodobenzylbromide. <i>Journal of Chromatography A</i> , 2005, 1085, 247-252.	1.8	50
23	Evidence that urinary excretion of thiouracil in adult bovine submitted to a cruciferous diet can give erroneous indications of the possible illegal use of thyreostats in meat production. <i>Food Additives and Contaminants</i> , 2006, 23, 974-980.	2.0	49
24	Analysis of glucuronide and sulfate steroids in urine by ultra-high-performance supercritical-fluid chromatography hyphenated tandem mass spectrometry. <i>Analytical and Bioanalytical Chemistry</i> , 2015, 407, 4473-4484.	1.9	49
25	Impact of storage conditions on the urinary metabolomics fingerprint. <i>Analytica Chimica Acta</i> , 2017, 951, 99-107.	2.6	47
26	Collision cross section (CCS) as a complementary parameter to characterize human and veterinary drugs. <i>Analytica Chimica Acta</i> , 2018, 1043, 52-63.	2.6	43
27	First mass spectrometry metabolic fingerprinting of bacterial metabolism in a model cheese. <i>Food Chemistry</i> , 2013, 141, 1032-1040.	4.2	42
28	Specificity of monoclonal antibodies generated against arabinoxylans of cereal grains. <i>Carbohydrate Polymers</i> , 2004, 57, 425-433.	5.1	41
29	Micropollutants and chemical residues in organic and conventional meat. <i>Food Chemistry</i> , 2017, 232, 218-228.	4.2	40
30	Occurrence of legacy and novel brominated flame retardants in food and feed in France for the period 2014 to 2016. <i>Chemosphere</i> , 2018, 207, 497-506.	4.2	40
31	Metabolomics in food analysis: application to the control of forbidden substances. <i>Drug Testing and Analysis</i> , 2012, 4, 59-69.	1.6	39
32	LC-HRMS based metabolomics screening model to detect various β^2 -agonists treatments in bovines. <i>Metabolomics</i> , 2015, 11, 403-411.	1.4	39
33	Analysis of thyreostats: A history of 35 years. <i>Analytica Chimica Acta</i> , 2009, 637, 2-12.	2.6	37
34	Measurement of phthalates diesters in food using gas chromatography-tandem mass spectrometry. <i>Food Chemistry</i> , 2016, 196, 211-219.	4.2	37
35	Rapid evaporative ionisation mass spectrometry and chemometrics for high-throughput screening of growth promoters in meat producing animals. <i>Food Additives and Contaminants - Part A Chemistry, Analysis, Control, Exposure and Risk Assessment</i> , 2018, 35, 900-910.	1.1	37
36	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. <i>Journal of Chromatography A</i> , 2013, 1284, 126-140.	1.8	36

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37	Levels of persistent organic pollutants (POPs) in foods from the first regional Sub-Saharan Africa Total Diet Study. <i>Environment International</i> , 2020, 135, 105413.	4.8	36
38	Addressing Main Challenges Regarding Short- and Medium-Chain Chlorinated Paraffin Analysis Using GC/ECNI-MS and LC/ESI-MS Methods. <i>Journal of the American Society for Mass Spectrometry</i> , 2020, 31, 1885-1895.	1.2	36
39	High Throughput Identification and Quantification of Anabolic Steroid Esters by Atmospheric Solids Analysis Probe Mass Spectrometry for Efficient Screening of Drug Preparations. <i>Analytical Chemistry</i> , 2014, 86, 5649-5655.	3.2	35
40	Determination of a Large Set of \hat{I}^2 -Adrenergic Agonists in Animal Matrices Based on Ion Mobility and Mass Separations. <i>Analytical Chemistry</i> , 2015, 87, 9234-9242.	3.2	32
41	A multidimensional ^1H NMR lipidomics workflow to address chemical food safety issues. <i>Metabolomics</i> , 2018, 14, 60.	1.4	32
42	Detection of secondary biomarker of met-eGH as a strategy to screen for somatotropin misuse in horseracing. <i>Analyst</i> , The, 2008, 133, 270-276.	1.7	30
43	Evaluation of specific gravity as normalization strategy for cattle urinary metabolome analysis. <i>Metabolomics</i> , 2014, 10, 627-637.	1.4	30
44	Direct analysis in real time \hat{a} high resolution mass spectrometry (DART \hat{a} HRMS): a high throughput strategy for identification and quantification of anabolic steroid esters. <i>Drug Testing and Analysis</i> , 2015, 7, 603-608.	1.6	30
45	Potential of mass spectrometry metabolomics for chemical food safety. <i>Bioanalysis</i> , 2015, 7, 133-146.	0.6	30
46	Making complex measurements of meat composition fast: Application of rapid evaporative ionisation mass spectrometry to measuring meat quality and fraud. <i>Meat Science</i> , 2021, 181, 108333.	2.7	30
47	LC \hat{a} HRMS fingerprinting as an efficient approach to highlight fine differences in cheese metabolome during ripening. <i>Metabolomics</i> , 2015, 11, 1117-1130.	1.4	29
48	Criteria to distinguish between natural situations and illegal use of boldenone, boldenone esters and boldione in cattle. <i>Steroids</i> , 2009, 74, 803-808.	0.8	28
49	Potential of ion mobility-mass spectrometry for both targeted and non-targeted analysis of phase II steroid metabolites in urine. <i>Analytica Chimica Acta: X</i> , 2019, 1, 100006.	2.8	28
50	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. <i>Drug Testing and Analysis</i> , 2014, 6, 376-388.	1.6	27
51	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. <i>Journal of Chromatography A</i> , 2012, 1270, 51-61.	1.8	26
52	Serum-based metabolomics characterization of pigs treated with ractopamine. <i>Metabolomics</i> , 2017, 13, 1.	1.4	26
53	Transfer of short-, medium-, and long-chain chlorinated paraffins to eggs of laying hens after dietary exposure. <i>Food Chemistry</i> , 2021, 343, 128491.	4.2	26
54	Global urine fingerprinting by LC-ESI(+)-HRMS for better characterization of metabolic pathway disruption upon anabolic practices in bovine. <i>Metabolomics</i> , 2015, 11, 184-197.	1.4	25

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55	Comparison of different liquid chromatography stationary phases in LC-MS metabolomics for the detection of recombinant growth hormone doping control. <i>Journal of Separation Science</i> , 2011, 34, 3493-3501.	1.3	23
56	Comprehensive steroid profiling by liquid chromatography coupled to high resolution mass spectrometry. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , 2018, 183, 106-115.	1.2	23
57	Toward the characterisation of non-intentionally added substances migrating from polyester-polyurethane lacquers by comprehensive gas chromatography-mass spectrometry technologies. <i>Journal of Chromatography A</i> , 2019, 1601, 327-334.	1.8	23
58	Optimized characterization of short-, medium, and long-chain chlorinated paraffins in liquid chromatography-high resolution mass spectrometry. <i>Journal of Chromatography A</i> , 2020, 1619, 460927.	1.8	23
59	Fast and multiresidue determination of twenty glucocorticoids in bovine milk using ultra high performance liquid chromatography-tandem mass spectrometry. <i>Journal of Chromatography A</i> , 2013, 1294, 76-86.	1.8	22
60	Tissue Distribution and Transfer to Eggs of Ingested α -Hexabromocyclododecane (α -HBCDD) in Laying Hens (<i>Gallus domesticus</i>). <i>Journal of Agricultural and Food Chemistry</i> , 2016, 64, 2112-2119.	2.4	22
61	Elucidation of non-intentionally added substances migrating from polyester-polyurethane lacquers using automated LC-MS data processing. <i>Analytical and Bioanalytical Chemistry</i> , 2018, 410, 5391-5403.	1.9	22
62	A role for metabolomics in the antidoping toolbox?. <i>Drug Testing and Analysis</i> , 2020, 12, 677-690.	1.6	22
63	Hydrophilic interaction (HILIC) and reverse phase liquid chromatography (RPLC)-high resolution MS for characterizing lipids profile disruption in serum of anabolic implanted bovines. <i>Metabolomics</i> , 2015, 11, 1884-1895.	1.4	21
64	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. <i>Analytica Chimica Acta</i> , 2011, 700, 189-193.	2.6	20
65	Short-term effects of a perinatal exposure to the HBCDD α -isomer in rats: Assessment of early motor and sensory development, spontaneous locomotor activity and anxiety in pups. <i>Neurotoxicology and Teratology</i> , 2015, 52, 170-180.	1.2	20
66	Effects of pan cooking on micropollutants in meat. <i>Food Chemistry</i> , 2017, 232, 395-404.	4.2	20
67	Unambiguous identification of thiouracil residue in urine collected in non-treated bovine by tandem and high-resolution mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2006, 20, 3183-3187.	0.7	19
68	Toward a criterion for suspect thiouracil administration in animal husbandry. <i>Food Additives and Contaminants - Part A Chemistry, Analysis, Control, Exposure and Risk Assessment</i> , 2011, 28, 840-847.	1.1	19
69	First insights into serum metabolomics of trenbolone/estradiol implanted bovines; screening model to predict hormone-treated and control animals' status. <i>Metabolomics</i> , 2015, 11, 1184-1196.	1.4	19
70	Optimization of fecal sample preparation for untargeted LC-MS based metabolomics. <i>Metabolomics</i> , 2017, 13, 1.	1.4	19
71	Ammonium Fluoride as Suitable Additive for HILIC-Based LC-MS Metabolomics. <i>Metabolites</i> , 2019, 9, 292.	1.3	19
72	Detection of 20-hydroxyecdysone in calf urine by comparative liquid chromatography/high-resolution mass spectrometry and liquid chromatography/tandem mass spectrometry measurements: application to the control of the potential misuse of ecdysteroids in cattle. <i>Rapid Communications in Mass Spectrometry</i> , 2008, 22, 4073-4080.	0.7	18

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73	Toward a New European Threshold to Discriminate Illegally Administered from Naturally Occurring Thiouracil in Livestock. <i>Journal of Agricultural and Food Chemistry</i> , 2015, 63, 1339-1346.	2.4	18
74	When LC-HRMS metabolomics gets ISO17025 accredited and ready for official controls – application to the screening of forbidden compounds in livestock. <i>Food Additives and Contaminants - Part A Chemistry, Analysis, Control, Exposure and Risk Assessment</i> , 2018, 35, 1948-1958.	1.1	18
75	Spatial Distribution of <i>Lactococcus lactis</i> Colonies Modulates the Production of Major Metabolites during the Ripening of a Model Cheese. <i>Applied and Environmental Microbiology</i> , 2016, 82, 202-210.	1.4	17
76	Ochratoxin A determination in swine muscle and liver from French conventional or organic farming production systems. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2018, 1092, 131-137.	1.2	17
77	Analytical strategies to detect use of recombinant bovine somatotropin in food-producing animals. <i>TrAC - Trends in Analytical Chemistry</i> , 2014, 53, 1-10.	5.8	16
78	Nontargeted LC/ESI-HRMS Detection of Polyhalogenated Compounds in Marine Mammals Stranded on French Atlantic Coasts. <i>ACS ES&T Water</i> , 2021, 1, 309-318.	2.3	16
79	Discrimination of Recombinant and Pituitary-Derived Bovine and Porcine Growth Hormones by Peptide Mass Mapping. <i>Journal of Agricultural and Food Chemistry</i> , 2004, 52, 407-414.	2.4	15
80	Analytical strategies to detect enobosarm administration in bovines. <i>Food Additives and Contaminants - Part A Chemistry, Analysis, Control, Exposure and Risk Assessment</i> , 2017, 34, 632-640.	1.1	15
81	Field investigation to determine the environmental source of PCBs in a pig farm. <i>Food Chemistry</i> , 2018, 245, 394-401.	4.2	15
82	Modeling the fragmentation patterns of triacylglycerides in mass spectrometry allows the quantification of the regioisomers with a minimal number of standards. <i>Analytica Chimica Acta</i> , 2019, 1057, 60-69.	2.6	15
83	Specific characterization of nonsteroidal selective androgen receptor modulators using supercritical fluid chromatography coupled to ion mobility mass spectrometry: application to the detection of enobosarm in bovine urine. <i>Drug Testing and Analysis</i> , 2017, 9, 179-187.	1.6	14
84	APCI as an innovative ionization mode compared with EI and CI for the analysis of a large range of organophosphate esters using GC-MS/MS. <i>Journal of Mass Spectrometry</i> , 2017, 52, 54-61.	0.7	14
85	Applying metabolomics to detect growth hormone administration in athletes: Proof of concept. <i>Drug Testing and Analysis</i> , 2020, 12, 887-899.	1.6	14
86	Data analysis strategies for the characterization of chemical contaminant mixtures. Fish as a case study. <i>Environment International</i> , 2021, 155, 106610.	4.8	14
87	Occurrence of Dieldrin and related compounds in catfish (<i>Silurus spp.</i>) from rivers in France. <i>Chemosphere</i> , 2018, 207, 413-420.	4.2	13
88	Accumulation of short-, medium-, and long- chain chlorinated paraffins in tissues of laying hens after dietary exposure. <i>Food Chemistry</i> , 2021, 351, 129289.	4.2	13
89	Clinical biochemical and hormonal profiling in plasma: a promising strategy to predict growth hormone abuse in cattle. <i>Analytical and Bioanalytical Chemistry</i> , 2015, 407, 4343-4349.	1.9	12
90	Solid-phase microextraction set-up for the analysis of liver volatolome to detect livestock exposure to micropollutants. <i>Journal of Chromatography A</i> , 2017, 1497, 9-18.	1.8	12

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91	Characterization of Steroids through Collision Cross Sections: Contribution of Quantum Chemistry Calculations. <i>Analytical Chemistry</i> , 2020, 92, 6034-6042.	3.2	12
92	5 α -Estrane-3 β ,17 β -diol and 5 α -estrane-3 α ,17 β -diol: Definitive screening biomarkers to sign nandrolone abuse in cattle?. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , 2011, 126, 65-71.	1.2	11
93	Hens can ingest extruded polystyrene in rearing buildings and lay eggs contaminated with hexabromocyclododecane. <i>Chemosphere</i> , 2017, 186, 62-67.	4.2	11
94	Selective androgen receptor modulators: comparative excretion study of bicalutamide in bovine urine and faeces. <i>Drug Testing and Analysis</i> , 2017, 9, 1017-1025.	1.6	11
95	Production of polyclonal antibodies directed to recombinant methionyl bovine somatotropin. <i>Analytica Chimica Acta</i> , 2013, 761, 186-193.	2.6	10
96	Metabolomics analysis of liver reveals profile disruption in bovines upon steroid treatment. <i>Metabolomics</i> , 2017, 13, 1.	1.4	10
97	Classification of trace elements in tissues from organic and conventional French pig production. <i>Meat Science</i> , 2018, 141, 28-35.	2.7	10
98	Dechlorane Plus and Related Compounds in Food – A Review. <i>International Journal of Environmental Research and Public Health</i> , 2021, 18, 690.	1.2	10
99	Coupling Complete Blood Count and Steroidomics to Track Low Doses Administration of Recombinant Growth Hormone: An Anti-Doping Perspective. <i>Frontiers in Molecular Biosciences</i> , 2021, 8, 683675.	1.6	10
100	Accumulation of β -hexabromocyclododecane (β -HBCDD) in tissues of fast- and slow-growing broilers (<i>Gallus domesticus</i>). <i>Chemosphere</i> , 2017, 178, 424-431.	4.2	9
101	Assessment of Dechlorane Plus and related compounds in foodstuffs and estimates of daily intake from Lebanese population. <i>Chemosphere</i> , 2019, 235, 492-497.	4.2	9
102	Exposure assessment for dioxin-like PCBs intake from organic and conventional meat integrating cooking and digestion effects. <i>Food and Chemical Toxicology</i> , 2017, 110, 251-261.	1.8	8
103	From a non-targeted metabolomics approach to a targeted biomarkers strategy to highlight testosterone abuse in equine. Illustration of a methodological transfer between platforms and laboratories. <i>Drug Testing and Analysis</i> , 2022, 14, 864-878.	1.6	8
104	Enantiomer-specific accumulation and depuration of β -hexabromocyclododecane (β -HBCDD) in chicken (<i>Gallus gallus</i>). <i>Food and Chemical Toxicology</i> , 2017, 110, 251-261.	4.2	7
105	Do farming conditions influence brominated flame retardant levels in pig and poultry products?. <i>Animal</i> , 2020, 14, 1313-1321.	1.3	5
106	Metabolomics and lipidomics to identify biomarkers of effect related to exposure to non-dioxin-like polychlorinated biphenyls in pigs. <i>Chemosphere</i> , 2022, 296, 133957.	4.2	5
107	Extending the Lipidome Coverage by Combining Different Mass Spectrometric Platforms: An Innovative Strategy to Answer Chemical Food Safety Issues. <i>Foods</i> , 2021, 10, 1218.	1.9	4
108	In vitro assessment of polychlorinated biphenyl bioaccessibility in meat: Influence of fat content, cooking level and consumer age on consumer uptake. <i>Food Chemistry</i> , 2022, 374, 131623.	4.2	4

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109	Thorough investigation of non-volatile substances extractible from inner coatings of metallic cans and their occurrence in the canned vegetables. <i>Journal of Hazardous Materials</i> , 2022, 435, 129026.	6.5	4
110	Recombinant bovine growth hormone identification and the kinetic of elimination in rainbow trout treated by LC-MS/MS. <i>Food Additives and Contaminants - Part A Chemistry, Analysis, Control, Exposure and Risk Assessment</i> , 2013, 30, 1020-1026.	1.1	3
111	Nandrolone and estradiol biomarkers identification in bovine urine applying a liquid chromatography high-resolution mass spectrometry metabolomics approach. <i>Drug Testing and Analysis</i> , 2021, , .	1.6	3
112	The Promise and Challenges of Determining Recombinant Bovine Growth Hormone in Milk. <i>Foods</i> , 2022, 11, 274.	1.9	3
113	Urinary signature of pig carcasses with boar taint by liquid chromatography-high-resolution mass spectrometry. <i>Food Additives and Contaminants - Part A Chemistry, Analysis, Control, Exposure and Risk Assessment</i> , 2016, 34, 1-10.	1.1	2
114	Enantiomeric fraction of hexabromocyclododecanes in foodstuff from the Belgian market. <i>Chemosphere</i> , 2020, 260, 127607.	4.2	2
115	Aminoaciduria Caused by Fanconi Syndrome in a Heifer. <i>Journal of Veterinary Internal Medicine</i> , 2017, 31, 598-603.	0.6	2
116	Effect of a Photostimulating Treatment, in Winter, on Steroids Profile and Sexual Behavior of Light Stallions. <i>Journal of Equine Veterinary Science</i> , 2018, 66, 66-67.	0.4	0
117	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