Jana Hajslova

List of Publications by Citations

285 papers	11,017 citations	61 h-index	90 g-index
304 ext. papers	12,436 ext. citations	5.3 avg, IF	6.47 L-index

#	Paper	IF	Citations
285	Matrix effects in (ultra)trace analysis of pesticide residues in food and biotic matrices. *Journal of Chromatography A*, **2003**, 1000, 181-97	4.5	350
284	Challenging applications offered by direct analysis in real time (DART) in food-quality and safety analysis. *TrAC - Trends in Analytical Chemistry*, **2011**, 30, 204-218	14.6	274
283	Worldwide contamination of food-crops with mycotoxins: Validity of the widely cited 'FAO estimate' of 25. *Critical Reviews in Food Science and Nutrition*, **2020**, 60, 2773-2789	11.5	269
282	Ambient mass spectrometry employing direct analysis in real time (DART) ion source for olive oil quality and authenticity assessment. *Analytica Chimica Acta*, **2009**, 645, 56-63	6.6	209
281	Transfer of Fusarium mycotoxins and 'masked' deoxynivalenol (deoxynivalenol-3-glucoside) from field barley through malt to beer. *Food Additives and Contaminants - Part A Chemistry, Analysis, Control, Exposure and Risk Assessment*, **2008**, 25, 732-44	3.2	183
280	Novel approaches in analysis of Fusarium mycotoxins in cereals employing ultra performance liquid chromatography coupled with high resolution mass spectrometry. *Analytica Chimica Acta*, **2010**, 662, 51-61	6.6	166
279	Analysis of multiple mycotoxins in cereals under ambient conditions using direct analysis in real time (DART) ionization coupled to high resolution mass spectrometry. *Talanta*, **2010**, 82, 1950-7	6.2	157
278	Alternative calibration approaches to compensate the effect of co-extracted matrix components in liquid chromatography-electrospray ionisation tandem mass spectrometry analysis of pesticide residues in plant materials. *Journal of Chromatography A*, **2002**, 973, 13-26	4.5	140
277	Occurrence of deoxynivalenol and its major conjugate, deoxynivalenol-3-glucoside, in beer and some brewing intermediates. *Journal of Agricultural and Food Chemistry*, **2009**, 57, 3187-94	5.7	138
276	Critical assessment of extraction methods for the simultaneous determination of pesticide residues and mycotoxins in fruits, cereals, spices and oil seeds employing ultra-high performance liquid chromatography-tandem mass spectrometry. *Journal of Chromatography A*, **2012**, 1262, 8-18	4.5	133
275	Recognition of beer brand based on multivariate analysis of volatile fingerprint. *Journal of Chromatography A*, **2010**, 1217, 4195-203	4.5	130
274	Headspace solid-phase microextraction of phthalic acid esters from vegetable oil employing solvent based matrix modification. *Analytica Chimica Acta*, **2007**, 582, 24-33	6.6	123
273	Development of a solid-phase microextraction method for the determination of phthalic acid esters in water. *Analytica Chimica Acta*, **2002**, 457, 211-223	6.6	122
272	Chlorohydrins in protein hydrolysates. *Zeitschrift Fur Lebensmittel-Untersuchung Und -Forschung*, **1978**, 167, 241-4		122
271	Streamlining sample preparation and gas chromatography-tandem mass spectrometry analysis of multiple pesticide residues in tea. *Analytica Chimica Acta*, **2012**, 743, 51-60	6.6	118
270	Fate of trichothecene mycotoxins during the processing: milling and baking. *Food Additives and Contaminants - Part A Chemistry, Analysis, Control, Exposure and Risk Assessment*, **2008**, 25, 650-9	3.2	115
269	Quality of organically and conventionally grown potatoes: four-year study of micronutrients, metals, secondary metabolites, enzymic browning and organoleptic properties. *Food Additives and Contaminants*, **2005**, 22, 514-34		113

268	'Emerging' mycotoxins in cereals processing chains: changes of enniatins during beer and bread making. *Food Chemistry*, **2013**, 136, 750-7	8.5	112
267	Control of strobilurin fungicides in wheat using direct analysis in real time accurate time-of-flight and desorption electrospray ionization linear ion trap mass spectrometry. *Analytical Chemistry*, **2008**, 80, 9567-75	7.8	112
266	Deoxynivalenol, deoxynivalenol-3-glucoside, and enniatins: the major mycotoxins found in cereal-based products on the Czech market. *Journal of Agricultural and Food Chemistry*, **2011**, 59, 12990-7	5.7	109
265	The use of high performance liquid chromatography-quadrupole time-of-flight mass spectrometry coupled to advanced data mining and chemometric tools for discrimination and classification of red wines according to their variety. *Analytica Chimica Acta*, **2011**, 685, 45-51	6.6	109
264	Evaluation of two-dimensional gas chromatography-time-of-flight mass spectrometry for the determination of multiple pesticide residues in fruit. *Journal of Chromatography A*, **2003**, 1019, 173-86	4.5	108
263	Pressurized liquid extraction in determination of polychlorinated biphenyls and organochlorine pesticides in fish samples. *Analytica Chimica Acta*, **2004**, 520, 193-200	6.6	107
262	Rapid determination of melamine and cyanuric acid in milk powder using direct analysis in real time-time-of-flight mass spectrometry. *Journal of Chromatography A*, **2010**, 1217, 4204-11	4.5	106
261	Ambient mass spectrometry employing a DART ion source for metabolomic fingerprinting/profiling: a powerful tool for beer origin recognition. *Metabolomics*, **2011**, 7, 500-508	4.7	105
260	Aroma profiles of five basil (Ocimum basilicum L.) cultivars grown under conventional and organic conditions. *Food Chemistry*, **2008**, 107, 464-472	8.5	101
259	Identification/quantification of multiple pesticide residues in food plants by ultra-high-performance liquid chromatography-time-of-flight mass spectrometry. *Journal of Chromatography A*, **2010**, 1217, 648-59	4.5	98
258	Rapid analysis of multiple pesticide residues in fruit-based baby food using programmed temperature vaporiser injection-low-pressure gas chromatography-high-resolution time-of-flight mass spectrometry. *Journal of Chromatography A*, **2008**, 1186, 281-94	4.5	98
257	Advances in high-resolution mass spectrometry based on metabolomics studies for food--a review. *Food Additives and Contaminants - Part A Chemistry, Analysis, Control, Exposure and Risk Assessment*, **2015**, 32, 1685-708	3.2	95
256	Effects of milling and baking technologies on levels of deoxynivalenol and its masked form deoxynivalenol-3-glucoside. *Journal of Agricultural and Food Chemistry*, **2011**, 59, 9303-12	5.7	95
255	Traceability of honey origin based on volatiles pattern processing by artificial neural networks. *Journal of Chromatography A*, **2009**, 1216, 1458-62	4.5	95
254	Traceability of olive oil based on volatiles pattern and multivariate analysis. *Food Chemistry*, **2010**, 121, 282-289	8.5	95
253	Analysis of mycotoxins in barley using ultra high liquid chromatography high resolution mass spectrometry: comparison of efficiency and efficacy of different extraction procedures. *Talanta*, **2012**, 99, 712-9	6.2	92
252	Analysis of multiple mycotoxins in beer employing (ultra)-high-resolution mass spectrometry. *Rapid Communications in Mass Spectrometry*, **2010**, 24, 3357-67	2.2	91
251	Authentication of milk and milk-based foods by direct analysis in real time ionization high resolution mass spectrometry (DART HRMS) technique: A critical assessment. *Food Control*, **2014**, 36, 138-145	6.2	90

250	Deoxynivalenol oligoglycosides: new "masked" fusarium toxins occurring in malt, beer, and breadstuff. *Journal of Agricultural and Food Chemistry*, **2012**, 60, 9280-91	5.7	88
249	A rugged high-throughput analytical approach for the determination and quantification of multiple mycotoxins in complex feed matrices. *Talanta*, **2014**, 121, 263-72	6.2	86
248	Application of gas chromatography in food analysis. *TrAC - Trends in Analytical Chemistry*, **2002**, 21, 686-697	14.6	86
247	Deoxynivalenol and its conjugates in beer: a critical assessment of data obtained by enzyme-linked immunosorbent assay and liquid chromatography coupled to tandem mass spectrometry. *Analytica Chimica Acta*, **2008**, 625, 77-86	6.6	85
246	Optimization and evaluation of low-pressure gas chromatography-mass spectrometry for the fast analysis of multiple pesticide residues in a food commodity. *Journal of Chromatography A*, **2001**, 926, 291-308	4.5	84
245	Simple, high throughput ultra-high performance liquid chromatography/tandem mass spectrometry trace analysis of perfluorinated alkylated substances in food of animal origin: milk and fish. *Journal of Chromatography A*, **2011**, 1218, 4312-21	4.5	83
244	Multi-analyte high performance liquid chromatography coupled to high resolution tandem mass spectrometry method for control of pesticide residues, mycotoxins, and pyrrolizidine alkaloids. *Analytica Chimica Acta*, **2015**, 863, 29-40	6.6	82
243	Performance of programmed temperature vaporizer, pulsed splitless and on-column injection techniques in analysis of pesticide residues in plant matrices. *Journal of Chromatography A*, **2001**, 937, 73-86	4.5	81
242	Simplified and rapid determination of polychlorinated biphenyls, polybrominated diphenyl ethers, and polycyclic aromatic hydrocarbons in fish and shrimps integrated into a single method. *Analytica Chimica Acta*, **2011**, 707, 84-91	6.6	79
241	Advanced LC-MS-based methods to study the co-occurrence and metabolization of multiple mycotoxins in cereals and cereal-based food. *Analytical and Bioanalytical Chemistry*, **2018**, 410, 801-825	4.4	75
240	The determination of perfluoroalkyl substances, brominated flame retardants and their metabolites in human breast milk and infant formula. *Talanta*, **2013**, 117, 318-25	6.2	75
239	Occurrence of brominated flame retardants in household and car dust from the Czech Republic. *Science of the Total Environment*, **2012**, 441, 182-93	10.2	75
238	Saffron authentication based on liquid chromatography high resolution tandem mass spectrometry and multivariate data analysis. *Food Chemistry*, **2016**, 204, 201-209	8.5	74
237	Solid phase microextraction-comprehensive two-dimensional gas chromatography-time-of-flight mass spectrometry for the analysis of honey volatiles. *Journal of Separation Science*, **2007**, 30, 534-46	3.4	74
236	Identification and characterization of organic nanoparticles in food. *TrAC - Trends in Analytical Chemistry*, **2011**, 30, 100-112	14.6	72
235	Absorption and translocation of polybrominated diphenyl ethers (PBDEs) by plants from contaminated sewage sludge. *Chemosphere*, **2010**, 81, 381-6	8.4	72
234	Liquid chromatography–mass spectrometry-based metabolomics for authenticity assessment of fruit juices. *Metabolomics*, **2012**, 8, 793-803	4.7	71
233	The study of deoxynivalenol and its masked metabolites fate during the brewing process realised by UPLC-TOFMS method. *Food Chemistry*, **2011**, 126, 1870-6	8.5	70

232	Rapid determination of polycyclic aromatic hydrocarbons (PAHs) in tea using two-dimensional gas chromatography coupled with time of flight mass spectrometry. *Talanta*, **2012**, 100, 207-16	6.2	69
231	Use of automated direct sample introduction with analyte protectants in the GC-MS analysis of pesticide residues. *Journal of Separation Science*, **2005**, 28, 1048-60	3.4	69
230	Direct analysis of dithiocarbamate fungicides in fruit by ambient mass spectrometry. *Food Additives and Contaminants - Part A Chemistry, Analysis, Control, Exposure and Risk Assessment*, **2011**, 28, 1372-82	3.2	68
229	Metabolomic fingerprinting employing DART-TOFMS for authentication of tomatoes and peppers from organic and conventional farming. *Food Additives and Contaminants - Part A Chemistry, Analysis, Control, Exposure and Risk Assessment*, **2012**, 29, 1335-46	3.2	66
228	Determination of Seventeen Polar/Thermolabile Pesticides in Apples and Apricots by Liquid Chromatography/Mass Spectrometry. *Journal of AOAC INTERNATIONAL*, **2003**, 86, 612-622	1.7	64
227	Perfluorinated alkylated substances in vegetables collected in four European countries; occurrence and human exposure estimations. *Environmental Science and Pollution Research*, **2013**, 20, 7930-9	5.1	62
226	Authentication of animal fats using direct analysis in real time (DART) ionization-mass spectrometry and chemometric tools. *Journal of Agricultural and Food Chemistry*, **2011**, 59, 5919-26	5.7	62
225	Baby food production chain: pesticide residues in fresh apples and products. *Food Additives and Contaminants*, **2005**, 22, 1231-42		62
224	Aerobic biodegradation of selected polybrominated diphenyl ethers (PBDEs) in wastewater sewage sludge. *Chemosphere*, **2015**, 118, 315-21	8.4	61
223	Brominated flame retardants and related chlorinated persistent organic pollutants in fish from river Elbe and its main tributary Vltava. *Chemosphere*, **2007**, 69, 1195-203	8.4	61
222	Polybrominated diphenyl ethers (PBDEs) contents in house and car dust of Portugal by pressurized liquid extraction (PLE) and gas chromatography-mass spectrometry (GC-MS). *Chemosphere*, **2010**, 78, 1263-71	8.4	60
221	Determination of polybrominated diphenyl ethers in human milk samples in the Czech Republic. *Analytica Chimica Acta*, **2004**, 520, 237-243	6.6	60
220	Pulsed Splitless Injection and the Extent of Matrix Effects in the Analysis of Pesticides. *Journal of High Resolution Chromatography*, **1999**, 22, 395-402		60
219	Mycotoxins in Plant-Based Dietary Supplements: Hidden Health Risk for Consumers. *Journal of Agricultural and Food Chemistry*, **2015**, 63, 6633-43	5.7	59
218	Application of direct analysis in real time ionization mass spectrometry (DART MS) in chicken meat metabolomics aiming at the retrospective control of feed fraud. *Metabolomics*, **2013**, 9, 545-557	4.7	59
217	Temporal trends of synthetic musk compounds in mother's milk and associations with personal use of perfumed products. *Environmental Science & Technology*, **2008**, 42, 6743-8	10.3	58
216	Ultra-performance liquid chromatography-tandem mass spectrometry: a novel challenge in multiresidue pesticide analysis in food. *Analytica Chimica Acta*, **2006**, 577, 8-17	6.6	58
215	Gas chromatography-triple quadrupole tandem mass spectrometry: a powerful tool for the (ultra)trace analysis of multiclass environmental contaminants in fish and fish feed. *Analytical and Bioanalytical Chemistry*, **2013**, 405, 7803-15	4.4	54

214	Gas chromatography–high-resolution time-of-flight mass spectrometry in pesticide residue analysis: advantages and limitations. *Journal of Chromatography A*, **2004**, 1058, 251-261	4.5	53
213	Impact of vacuum frying on quality of potato crisps and frying oil. *Food Chemistry*, **2018**, 241, 51-59	8.5	52
212	Fish as biomonitors of polybrominated diphenyl ethers and hexabromocyclododecane in Czech aquatic ecosystems: pollution of the Elbe River basin. *Environmental Health Perspectives*, **2007**, 115 Suppl 1, 28-34	8.4	52
211	Assessing the mycotoxicological risk from consumption of complementary foods by infants and young children in Nigeria. *Food and Chemical Toxicology*, **2018**, 121, 37-50	4.7	50
210	Brominated flame retardants and other organochlorine pollutants in human adipose tissue samples from the Czech Republic. *Environment International*, **2009**, 35, 63-8	12.9	50
209	Direct determination of acrylamide in food by gas chromatography-high-resolution time-of-flight mass spectrometry. *Analytica Chimica Acta*, **2006**, 578, 234-40	6.6	50
208	High throughput sample preparation in combination with gas chromatography coupled to triple quadrupole tandem mass spectrometry (GC-MS/MS): a smart procedure for (ultra)trace analysis of brominated flame retardants in fish. *Talanta*, **2013**, 105, 109-16	6.2	49
207	Metabolic fingerprinting based on high-resolution tandem mass spectrometry: a reliable tool for wine authentication?. *Analytical and Bioanalytical Chemistry*, **2014**, 406, 6791-803	4.4	48
206	Rapid monitoring of heat-accelerated reactions in vegetable oils using direct analysis in real time ionization coupled with high resolution mass spectrometry. *Food Chemistry*, **2013**, 138, 2312-20	8.5	47
205	Glycoalkaloid and calystegine levels in table potato cultivars subjected to wounding, light, and heat treatments. *Journal of Agricultural and Food Chemistry*, **2013**, 61, 5893-902	5.7	47
204	Fusarium mycotoxins in various barley cultivars and their transfer into malt. *Journal of the Science of Food and Agriculture*, **2010**, 90, 2495-505	4.3	47
203	Ruggedness and other performance characteristics of low-pressure gas chromatography-mass spectrometry for the fast analysis of multiple pesticide residues in food crops. *Journal of Chromatography A*, **2004**, 1054, 335-49	4.5	45
202	Fusarium mycotoxins in wheat samples harvested in Serbia: A preliminary survey. *Food Control*, **2011**, 22, 1261-1267	6.2	44
201	Changes of pesticide residues in apples during cold storage. *Food Control*, **2008**, 19, 247-256	6.2	44
200	Monitoring survey of patulin in a variety of fruit-based products using a sensitive UHPLC–MS/MS analytical procedure. *Food Control*, **2015**, 47, 577-584	6.2	43
199	Appraisal of classical and novel extraction procedure efficiencies for the isolation of polycyclic aromatic hydrocarbons and their derivatives from biotic matrices. *Analytica Chimica Acta*, **2004**, 520, 93-103	6.6	42
198	Optimization and application of the PTV injector for the analysis of pesticide residues. *Journal of Separation Science*, **2001**, 24, 355-366	3.4	42
197	Transformation of raw feather waste into digestible peptides and amino acids. *Journal of Chemical Technology and Biotechnology*, **2016**, 91, 1629-1637	3.5	42

196	Novel approaches to analysis of 3-chloropropane-1,2-diol esters in vegetable oils. *Analytical and Bioanalytical Chemistry*, **2012**, 402, 2871-83	4.4	41
195	Alternative GC-MS approaches in the analysis of substituted pyrazines and other volatile aromatic compounds formed during Maillard reaction in potato chips. *Analytica Chimica Acta*, **2009**, 641, 101-9	6.6	41
194	A systematic review of consumer perceptions of food fraud and authenticity: A European perspective. *Trends in Food Science and Technology*, **2019**, 94, 79-90	15.3	40
193	Novel approaches to the analysis of steroid estrogens in river sediments. *Analytical and Bioanalytical Chemistry*, **2007**, 387, 1351-63	4.4	40
192	Evaluation of direct analysis in real time ionization-mass spectrometry (DART-MS) in fish metabolomics aimed to assess the response to dietary supplementation. *Talanta*, **2013**, 115, 263-70	6.2	38
191	Application of solid phase extraction and two-dimensional gas chromatography coupled with time-of-flight mass spectrometry for fast analysis of polycyclic aromatic hydrocarbons in vegetable oils. *Food Control*, **2013**, 33, 489-497	6.2	38
190	Occurrence of brominated flame retardants and perfluoroalkyl substances in fish from the Czech aquatic ecosystem. *Science of the Total Environment*, **2013**, 461-462, 88-98	10.2	38
189	Analysis of furanocoumarins in vegetables (Apiaceae) and citrus fruits (Rutaceae). *Journal of the Science of Food and Agriculture*, **2007**, 87, 2152-2163	4.3	38
188	Impact of air pollution on oxidative DNA damage and lipid peroxidation in mothers and their newborns. *International Journal of Hygiene and Environmental Health*, **2016**, 219, 545-56	6.9	38
187	Mycotoxin co-exposures in infants and young children consuming household- and industrially-processed complementary foods in Nigeria and risk management advice. *Food Control*, **2019**, 98, 312-322	6.2	38
186	Rapid analysis of caffeine in various coffee samples employing direct analysis in real-time ionization-high-resolution mass spectrometry. *Analytical and Bioanalytical Chemistry*, **2012**, 403, 2883-9	4.4	37
185	Untargeted metabolomics based on ultra-high-performance liquid chromatography-high-resolution mass spectrometry merged with chemometrics: A new predictable tool for an early detection of mycotoxins. *Food Chemistry*, **2017**, 224, 423-431	8.5	36
184	Authenticity assessment of garlic using a metabolomic approach based on high resolution mass spectrometry. *Journal of Food Composition and Analysis*, **2018**, 67, 19-28	4.1	36
183	Occurrence of perfluorinated alkylated substances in cereals, salt, sweets and fruit items collected in four European countries. *Chemosphere*, **2015**, 129, 179-85	8.4	36
182	Challenges of gas chromatography-high-resolution time-of-flight mass spectrometry for simultaneous analysis of polybrominated diphenyl ethers and other halogenated persistent organic pollutants in environmental samples. *Journal of Separation Science*, **2005**, 28, 601-11	3.4	36
181	A novel approach based on untargeted lipidomics reveals differences in the lipid pattern among durum and common wheat. *Food Chemistry*, **2018**, 240, 775-783	8.5	36
180	Dynamics of brominated flame retardants removal in contaminated wastewater sewage sludge under anaerobic conditions. *Science of the Total Environment*, **2015**, 533, 439-45	10.2	35
179	A novel strategy for the determination of polycyclic aromatic hydrocarbon monohydroxylated metabolites in urine using ultra-high-performance liquid chromatography with tandem mass spectrometry. *Analytical and Bioanalytical Chemistry*, **2016**, 408, 2515-25	4.4	34

178	Polycyclic aromatic hydrocarbons in smoked cheese. *Journal of the Science of Food and Agriculture*, **2008**, 88, 1307-1317	4.3	34
177	Implementation of comprehensive two-dimensional gas chromatography-time-of-flight mass spectrometry for the simultaneous determination of halogenated contaminants and polycyclic aromatic hydrocarbons in fish. *Analytical and Bioanalytical Chemistry*, **2012**, 403, 2813-24	4.4	33
176	Uncertainties of gas chromatographic measurement of troublesome pesticide residues in apples employing conventional and mass spectrometric detectors. *Analytica Chimica Acta*, **2004**, 520, 245-255	6.6	33
175	Fast temperature programming in routine analysis of multiple pesticide residues in food matrices. *Journal of Chromatography A*, **2001**, 907, 235-45	4.5	33
174	Relationship between atmospheric pollution in the residential area and concentrations of polycyclic aromatic hydrocarbons (PAHs) in human breast milk. *Science of the Total Environment*, **2016**, 562, 640-647	10.2	33
173	Determination of seventeen polar/thermolabile pesticides in apples and apricots by liquid chromatography/mass spectrometry. *Journal of AOAC INTERNATIONAL*, **2003**, 86, 612-22	1.7	33
172	Multi-analyte method for the analysis of various organohalogen compounds in house dust. *Analytica Chimica Acta*, **2015**, 854, 61-9	6.6	32
171	Direct analysis in real time high-resolution mass spectrometry for high-throughput analysis of antiparasitic veterinary drugs in feed and food. *Rapid Communications in Mass Spectrometry*, **2013**, 27, 467-75	2.2	32
170	Evaluating environmental impact of STPs situated on streams in the Czech Republic: an integrated approach to biomonitoring the aquatic environment. *Water Research*, **2011**, 45, 1403-13	12.5	32
169	Toxicity and efficacy of selected pesticides and new acaricides to stored product mites (Acari: Acaridida). *Experimental and Applied Acarology*, **2007**, 42, 283-90	2.1	32
168	Correlation study of enzyme-linked immunosorbent assay and high-performance liquid chromatography/tandem mass spectrometry for the determination of N-methylcarbamate insecticides in baby food. *Analytica Chimica Acta*, **2003**, 495, 123-132	6.6	32
167	A novel approach to assess the quality and authenticity of Scotch Whisky based on gas chromatography coupled to high resolution mass spectrometry. *Analytica Chimica Acta*, **2018**, 1042, 60-70	6.6	32
166	Perfluoroalkyl substances (PFASs) and other halogenated compounds in fish from the upper Labe River basin. *Chemosphere*, **2015**, 129, 170-8	8.4	31
165	Color encoded microbeads-based flow cytometric immunoassay for polycyclic aromatic hydrocarbons in food. *Analytica Chimica Acta*, **2010**, 672, 9-14	6.6	31
164	Novel approach to fast determination of multiple pesticide residues using ultra-performance liquid chromatography-tandem mass spectrometry (UPLC-MS/MS). *Food Additives and Contaminants - Part A Chemistry, Analysis, Control, Exposure and Risk Assessment*, **2008**, 25, 444-57	3.2	31
163	Simultaneous analysis of organophosphorus and organochlorine pesticides in animal fat by gas chromatography with pulsed flame photometric and micro-electron capture detectors. *Journal of Separation Science*, **2002**, 25, 527-537	3.4	31
162	Evaluation of 11 polycyclic aromatic hydrocarbon metabolites in urine of Czech mothers and newborns. *Science of the Total Environment*, **2016**, 577, 212-212	10.2	30
161	Determination of nitrated polycyclic aromatic hydrocarbons and their precursors in biotic matrices. *Journal of Chromatography A*, **2002**, 982, 127-43	4.5	30

160	Rapid approach for the determination of alcoholic strength and overall quality check of various spirit drinks and wines using GC–MS. *Food Control*, **2017**, 80, 307-313	6.2	29
159	Rapid LC-MS-based metabolomics method to study the Fusarium infection of barley. *Journal of Separation Science*, **2014**, 37, 912-9	3.4	29
158	Assessment of rosehips based on the content of their biologically active compounds. *Journal of Food and Drug Analysis*, **2017**, 25, 681-690	7	28
157	Testing of polybutylene succinate based films for poultry meat packaging. *Polymer Testing*, **2017**, 60, 357-364	4.5	28
156	Prediction of acrylamide formation in biscuits based on fingerprint data generated by ambient ionization mass spectrometry employing direct analysis in real time (DART) ion source. *Food Chemistry*, **2015**, 173, 290-7	8.5	28
155	Poor chemical and microbiological quality of the commercial milk thistle-based dietary supplements may account for their reported unsatisfactory and non-reproducible clinical outcomes. *Scientific Reports*, **2019**, 9, 11118	4.9	27
154	Enzyme-linked immunosorbent assay in analysis of deoxynivalenol: investigation of the impact of sample matrix on results accuracy. *Analytical and Bioanalytical Chemistry*, **2014**, 406, 505-14	4.4	27
153	Analysis of isoflavones in soybeans employing direct analysis in real-time ionization-high-resolution mass spectrometry. *Journal of Separation Science*, **2012**, 35, 476-81	3.4	27
152	Ruggedness and other performance characteristics of low-pressure gas chromatography–mass spectrometry for the fast analysis of multiple pesticide residues in food crops?. *Journal of Chromatography A*, **2004**, 1054, 335-349	4.5	27
151	Characterization and Discrimination of Ancient Grains: A Metabolomics Approach. *International Journal of Molecular Sciences*, **2016**, 17,	6.3	27
150	Linking toxicity profiles to pollutants in sludge and sediments. *Journal of Hazardous Materials*, **2017** , 321, 672-680	12.8	26
149	High-Throughput Sequence Analyses of Bacterial Communities and Multi-Mycotoxin Profiling During Processing of Different Formulations of , a Traditional Fermented Beverage. *Frontiers in Microbiology*, **2018**, 9, 3282	5.7	25
148	Acrylamide formation in traditional Czech leavened wheat-rye breads and wheat rolls. *Food Control*, **2014**, 38, 221-226	6.2	25
147	Mass spectrometry-based metabolomic fingerprinting for screening cold tolerance in Arabidopsis thaliana accessions. *Analytical and Bioanalytical Chemistry*, **2013**, 405, 2671-83	4.4	25
146	The effect of fungicidal treatment on selected quality parameters of barley and malt. *Journal of Agricultural and Food Chemistry*, **2006**, 54, 1353-60	5.7	25
145	Occurrence of tropane alkaloids in food. *EFSA Supporting Publications*, **2016**, 13, 1140E	1.1	25
144	Ambient mass spectrometry based on REIMS for the rapid detection of adulteration of minced meats by the use of a range of additives. *Food Control*, **2019**, 104, 50-56	6.2	25
143	Rapid and simple method for determination of hexabromocyclododecanes and other LC-MS-MS-amenable brominated flame retardants in fish. *Analytical and Bioanalytical Chemistry*, **2013**, 405, 7829-39	4.4	24

142	Variability in statin-induced changes in gene expression profiles of pancreatic cancer. *Scientific Reports*, **2017**, 7, 44219	4.9	23
141	Food fraud in oregano: Pesticide residues as adulteration markers. *Food Chemistry*, **2019**, 276, 726-734	8.5	23
140	Effect of crop protection and fertilization regimes used in organic and conventional production systems on feed composition and physiological parameters in rats. *Journal of Agricultural and Food Chemistry*, **2013**, 61, 1017-29	5.7	22
139	Towards a dietary-exposome assessment of chemicals in food: An update on the chronic health risks for the European consumer. *Critical Reviews in Food Science and Nutrition*, **2020**, 60, 1890-1911	11.5	22
138	Stability of pesticides in plant extracts used as calibrants in the gas chromatographic analysis of residues. *Journal of Chromatography A*, **1998**, 800, 297-304	4.5	21
137	Methylsulfonyl PCB and DDE metabolites and their enantioselective gas chromatographic separation in human adipose tissues, seal blubber and pelican muscle. *Chemosphere*, **2007**, 67, S22-7	8.4	21
136	Cranberries versus lingonberries: A challenging authentication of similar Vaccinium fruit. *Food Chemistry*, **2019**, 284, 162-170	8.5	21
135	Optimization of the procedure for the determination of polycyclic aromatic hydrocarbons and their derivatives in fish tissue: Estimation of measurements uncertainty. *Food Additives and Contaminants* , **2006**, 23, 309-25		20
134	Estimation of human exposure to polycyclic aromatic hydrocarbons (PAHs) based on the dietary and outdoor atmospheric monitoring in the Czech Republic. *Environmental Research*, **2020**, 182, 108977	7.9	20
133	In Silico and In Vitro Studies of Mycotoxins and Their Cocktails; Their Toxicity and Its Mitigation by Silibinin Pre-Treatment. *Toxins*, **2020**, 12,	4.9	19
132	Brominated flame retardants and perfluoroalkyl substances in sediments from the Czech aquatic ecosystem. *Science of the Total Environment*, **2014**, 470-471, 407-16	10.2	19
131	Screening of Carbamate and Organophosphate Pesticides in Food Matrices Using an Affordable and Simple Spectrophotometric Acetylcholinesterase Assay. *Applied Sciences (Switzerland)*, **2020**, 10, 565	2.6	18
130	High resolution-ion mobility mass spectrometry as an additional powerful tool for structural characterization of mycotoxin metabolites. *Food Chemistry*, **2018**, 245, 768-774	8.5	18
129	Application of supercritical fluid extraction in multi-residue pesticide analysis of plant matrices. *European Food Research and Technology*, **2003**, 216, 68-74	3.4	18
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