

Steven J Lehotay

List of Publications by Year in descending order

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79
papers

12,462
citations

61945

43
h-index

69214

77
g-index

81
all docs

81
docs citations

81
times ranked

6240
citing authors

#	ARTICLE	IF	CITATIONS
1	Fast and Easy Multiresidue Method Employing Acetonitrile Extraction/Partitioning and Dispersive Solid-Phase Extraction for the Determination of Pesticide Residues in Produce. <i>Journal of AOAC INTERNATIONAL</i> , 2003, 86, 412-431.	0.7	4,413
2	Comparison of QuEChERS sample preparation methods for the analysis of pesticide residues in fruits and vegetables. <i>Journal of Chromatography A</i> , 2010, 1217, 2548-2560.	1.8	726
3	Determination of Pesticide Residues in Foods by Acetonitrile Extraction and Partitioning with Magnesium Sulfate: Collaborative Study. <i>Journal of AOAC INTERNATIONAL</i> , 2007, 90, 485-520.	0.7	694
4	Validation of a Fast and Easy Method for the Determination of Residues from 229 Pesticides in Fruits and Vegetables Using Gas and Liquid Chromatography and Mass Spectrometric Detection. <i>Journal of AOAC INTERNATIONAL</i> , 2005, 88, 595-614.	0.7	572
5	Use of Buffering and Other Means to Improve Results of Problematic Pesticides in a Fast and Easy Method for Residue Analysis of Fruits and Vegetables. <i>Journal of AOAC INTERNATIONAL</i> , 2005, 88, 615-629.	0.7	563
6	Evaluation of Two Fast and Easy Methods for Pesticide Residue Analysis in Fatty Food Matrixes. <i>Journal of AOAC INTERNATIONAL</i> , 2005, 88, 630-638.	0.7	398
7	Evaluation of analyte protectants to improve gas chromatographic analysis of pesticides. <i>Journal of Chromatography A</i> , 2003, 1015, 163-184.	1.8	327
8	Evaluation of common organic solvents for gas chromatographic analysis and stability of multiclass pesticide residues. <i>Journal of Chromatography A</i> , 2004, 1040, 259-272.	1.8	277
9	Combination of Analyte Protectants To Overcome Matrix Effects in Routine GC Analysis of Pesticide Residues in Food Matrixes. <i>Analytical Chemistry</i> , 2005, 77, 8129-8137.	3.2	224
10	Evaluation of the QuEChERS sample preparation approach for the analysis of pesticide residues in olives. <i>Journal of Separation Science</i> , 2007, 30, 620-632.	1.3	207
11	Practical approaches to fast gas chromatography-mass spectrometry. <i>Journal of Chromatography A</i> , 2003, 1000, 153-180.	1.8	205
12	Pesticide Multiresidue Analysis in Cereal Grains Using Modified QuEChERS Method Combined with Automated Direct Sample Introduction GC-TOFMS and UPLC-MS/MS Techniques. <i>Journal of Agricultural and Food Chemistry</i> , 2010, 58, 5959-5972.	2.4	204
13	High throughput analysis of 150 pesticides in fruits and vegetables using QuEChERS and low-pressure gas chromatography-time-of-flight mass spectrometry. <i>Journal of Chromatography A</i> , 2010, 1217, 6692-6703.	1.8	200
14	Multi-class, multi-residue analysis of pesticides, polychlorinated biphenyls, polycyclic aromatic hydrocarbons, polybrominated diphenyl ethers and novel flame retardants in fish using fast, low-pressure gas chromatography-tandem mass spectrometry. <i>Analytica Chimica Acta</i> , 2013, 758, 80-92.	2.6	191
15	Variability of matrix effects in liquid and gas chromatography-mass spectrometry analysis of pesticide residues after QuEChERS sample preparation of different food crops. <i>Journal of Chromatography A</i> , 2012, 1270, 235-245.	1.8	187
16	Determination of pesticide residues in foods by acetonitrile extraction and partitioning with magnesium sulfate: collaborative study. <i>Journal of AOAC INTERNATIONAL</i> , 2007, 90, 485-520.	0.7	137
17	Validation of a fast and easy method for the determination of residues from 229 pesticides in fruits and vegetables using gas and liquid chromatography and mass spectrometric detection. <i>Journal of AOAC INTERNATIONAL</i> , 2005, 88, 595-614.	0.7	119
18	Identification and confirmation of chemical residues in food by chromatography-mass spectrometry and other techniques. <i>TrAC - Trends in Analytical Chemistry</i> , 2008, 27, 1070-1090.	5.8	116

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19	Evaluation of a recent product to remove lipids and other matrix co-extractives in the analysis of pesticide residues and environmental contaminants in foods. <i>Journal of Chromatography A</i> , 2016, 1449, 17-29.	1.8	114
20	Comparison of solid-phase extraction sorbents for cleanup in pesticide residue analysis of fresh fruits and vegetables. <i>Journal of Separation Science</i> , 2002, 25, 883-890.	1.3	112
21	Development of a Method of Analysis for 46 Pesticides in Fruits and Vegetables by Supercritical Fluid Extraction and Gas Chromatography/Ion TVap Mass Spectrometry. <i>Journal of AOAC INTERNATIONAL</i> , 1995, 78, 821-830.	0.7	110
22	Ruggedness testing and validation of a practical analytical method for >100 veterinary drug residues in bovine muscle by ultrahigh performance liquid chromatography-tandem mass spectrometry. <i>Journal of Chromatography A</i> , 2012, 1258, 43-54.	1.8	110
23	Analysis of Pesticide Residues in Eggs by Direct Sample Introduction/Gas Chromatography/Tandem Mass Spectrometry. <i>Journal of Agricultural and Food Chemistry</i> , 2001, 49, 4589-4596.	2.4	102
24	Analysis of Pesticide Residues in Mixed Fruit and Vegetable Extracts by Direct Sample Introduction/Gas Chromatography/Tandem Mass Spectrometry. <i>Journal of AOAC INTERNATIONAL</i> , 2000, 83, 680-697.	0.7	101
25	Optimization and evaluation of low-pressure gas chromatography-mass spectrometry for the fast analysis of multiple pesticide residues in a food commodity. <i>Journal of Chromatography A</i> , 2001, 926, 291-308.	1.8	101
26	Fast, low-pressure gas chromatography triple quadrupole tandem mass spectrometry for analysis of 150 pesticide residues in fruits and vegetables. <i>Journal of Chromatography A</i> , 2011, 1218, 7039-7050.	1.8	101
27	Streamlined sample cleanup using combined dispersive solid-phase extraction and in-vial filtration for analysis of pesticides and environmental pollutants in shrimp. <i>Analytica Chimica Acta</i> , 2014, 827, 40-46.	2.6	98
28	Use of buffering and other means to improve results of problematic pesticides in a fast and easy method for residue analysis of fruits and vegetables. <i>Journal of AOAC INTERNATIONAL</i> , 2005, 88, 615-29.	0.7	98
29	QuEChERS Sample Preparation Approach for Mass Spectrometric Analysis of Pesticide Residues in Foods. <i>Methods in Molecular Biology</i> , 2011, 747, 65-91.	0.4	94
30	Use of ammonium formate in QuEChERS for high-throughput analysis of pesticides in food by fast, low-pressure gas chromatography and liquid chromatography tandem mass spectrometry. <i>Journal of Chromatography A</i> , 2014, 1358, 75-84.	1.8	90
31	Establishing the fitness for purpose of mass spectrometric methods. <i>Journal of the American Society for Mass Spectrometry</i> , 2003, 14, 528-541.	1.2	87
32	Use of automated direct sample introduction with analyte protectants in the GC-MS analysis of pesticide residues. <i>Journal of Separation Science</i> , 2005, 28, 1048-1060.	1.3	84
33	Multi-Analyst, Multi-Matrix Performance of the QuEChERS Approach for Pesticide Residues in Foods and Feeds Using HPLC/MS/MS Analysis with Different Calibration Techniques. <i>Journal of AOAC INTERNATIONAL</i> , 2010, 93, 355-367.	0.7	78
34	Evaluation of two fast and easy methods for pesticide residue analysis in fatty food matrixes. <i>Journal of AOAC INTERNATIONAL</i> , 2005, 88, 630-8.	0.7	69
35	Sampling and Sample Processing in Pesticide Residue Analysis. <i>Journal of Agricultural and Food Chemistry</i> , 2015, 63, 4395-4404.	2.4	61
36	Rapid analysis of aminoglycoside antibiotics in bovine tissues using disposable pipette extraction and ultrahigh performance liquid chromatography-tandem mass spectrometry. <i>Journal of Chromatography A</i> , 2013, 1313, 103-112.	1.8	60

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37	Method validation for 243 pesticides and environmental contaminants in meats and poultry by tandem mass spectrometry coupled to low-pressure gas chromatography and ultrahigh-performance liquid chromatography. <i>Food Control</i> , 2016, 66, 270-282.	2.8	60
38	Current issues involving screening and identification of chemical contaminants in foods by mass spectrometry. <i>TrAC - Trends in Analytical Chemistry</i> , 2015, 69, 62-75.	5.8	56
39	Comparison of veterinary drug residue results in animal tissues by ultrahigh-performance liquid chromatography coupled to triple quadrupole or quadrupole- ² time-of-flight tandem mass spectrometry after different sample preparation methods, including use of a commercial lipid removal product. <i>Analytical and Bioanalytical Chemistry</i> , 2017, 409, 2639-2653.	1.9	55
40	Automated Mini-Column Solid-Phase Extraction Cleanup for High-Throughput Analysis of Chemical Contaminants in Foods by Low-Pressure Gas Chromatography- ² Tandem Mass Spectrometry. <i>Chromatographia</i> , 2016, 79, 1113-1130.	0.7	52
41	Development and validation of a streamlined method designed to detect residues of 62 veterinary drugs in bovine kidney using ultra- ² high performance liquid chromatography - ² tandem mass spectrometry. <i>Drug Testing and Analysis</i> , 2012, 4, 75-90.	1.6	48
42	Development of a Sample Preparation Technique for Supercritical Fluid Extraction for Multiresidue Analysis of Pesticides in Produce. <i>Journal of AOAC INTERNATIONAL</i> , 1995, 78, 831-840.	0.7	47
43	Simultaneous analysis of aminoglycosides with many other classes of drug residues in bovine tissues by ultrahigh-performance liquid chromatography- ² tandem mass spectrometry using an ion-pairing reagent added to final extracts. <i>Analytical and Bioanalytical Chemistry</i> , 2018, 410, 1095-1109.	1.9	47
44	Validation of a streamlined multiclass, multiresidue method for determination of veterinary drug residues in bovine muscle by liquid chromatography- ² tandem mass spectrometry. <i>Analytical and Bioanalytical Chemistry</i> , 2015, 407, 4423-4435.	1.9	43
45	Supercritical Fluid Extraction and Gas Chromatography/Ion Trap Mass Spectrometry of Pentachlorotrobenzene Pesticides in Vegetables. <i>Journal of AOAC INTERNATIONAL</i> , 1995, 78, 445-452.	0.7	41
46	Qualitative Aspects in the Analysis of Pesticide Residues in Fruits and Vegetables Using Fast, Low-Pressure Gas Chromatography- ² Time-of-Flight Mass Spectrometry. <i>Journal of Agricultural and Food Chemistry</i> , 2011, 59, 7544-7556.	2.4	41
47	High-Throughput Mega-Method for the Analysis of Pesticides, Veterinary Drugs, and Environmental Contaminants by Ultra-High-Performance Liquid Chromatography- ² Tandem Mass Spectrometry and Robotic Mini-Solid-Phase Extraction Cleanup + Low-Pressure Gas Chromatography- ² Tandem Mass Spectrometry, Part 1: Beef. <i>Journal of Agricultural and Food Chemistry</i> , 2021, 69, 1159-1168.	2.4	41
48	Determination of Pesticide Residues in Nonfatty Foods by Percritical Extraction and Gas Chromatography/Mass Spectrometry: Collaborative Study. <i>Journal of AOAC INTERNATIONAL</i> , 2002, 85, 1148-1166.	0.7	37
49	Evaluation of Different Parameters in the Extraction of Incurred Pesticides and Environmental Contaminants in Fish. <i>Journal of Agricultural and Food Chemistry</i> , 2015, 63, 5163-5168.	2.4	37
50	Hits and misses in research trends to monitor contaminants in foods. <i>Analytical and Bioanalytical Chemistry</i> , 2018, 410, 5331-5351.	1.9	37
51	Evaluation of a Fast and Simple Sample Preparation Method for Polybrominated Diphenyl Ether (PBDE) Flame Retardants and Dichlorodiphenyltrichloroethane (DDT) Pesticides in Fish for Analysis by ELISA Compared with GC-MS/MS. <i>Journal of Agricultural and Food Chemistry</i> , 2015, 63, 4429-4434.	2.4	36
52	Review of recent developments and applications in low-pressure (vacuum outlet) gas chromatography. <i>Analytica Chimica Acta</i> , 2015, 899, 13-22.	2.6	36
53	Analysis of Nitrosamines in Cooked Bacon by QuEChERS Sample Preparation and Gas Chromatography- ² Tandem Mass Spectrometry with Backflushing. <i>Journal of Agricultural and Food Chemistry</i> , 2015, 63, 10341-10351.	2.4	35
54	High-Throughput Mega-Method for the Analysis of Pesticides, Veterinary Drugs, and Environmental Contaminants by Ultra-High-Performance Liquid Chromatography- ² Tandem Mass Spectrometry and Robotic Mini-Solid-Phase Extraction Cleanup + Low-Pressure Gas Chromatography- ² Tandem Mass Spectrometry, Part 2: Catfish. <i>Journal of Agricultural and Food Chemistry</i> , 2021, 69, 1169-1174.	2.4	30

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55	Validation of a high-throughput method for analysis of pesticide residues in hemp and hemp products. <i>Journal of Chromatography A</i> , 2021, 1645, 462097.	1.8	20
56	Effects of Temperature and Purity of Magnesium Sulfate During Extraction of Pesticide Residues Using the QuEChERS Method. <i>Journal of AOAC INTERNATIONAL</i> , 2012, 95, 1311-1318.	0.7	19
57	Assessment of Test Portion Sizes after Sample Comminution with Liquid Nitrogen in an Improved High-Throughput Method for Analysis of Pesticide Residues in Fruits and Vegetables. <i>Journal of Agricultural and Food Chemistry</i> , 2020, 68, 1468-1479.	2.4	18
58	Issues in Mass Spectrometry Between Bench Chemists and Regulatory Laboratory Managers: Summary of the Roundtable on Mass Spectrometry Held at the 123rd AOAC INTERNATIONAL Annual Meeting. <i>Journal of AOAC INTERNATIONAL</i> , 2010, 93, 1625-1632.	0.7	17
59	Use of a quality control approach to assess measurement uncertainty in the comparison of sample processing techniques in the analysis of pesticide residues in fruits and vegetables. <i>Analytical and Bioanalytical Chemistry</i> , 2018, 410, 5465-5479.	1.9	15
60	Less than one minute low-pressure gas chromatography - mass spectrometry. <i>Journal of Chromatography A</i> , 2020, 1612, 460691.	1.8	15
61	Critical review and re-assessment of analyte protectants in gas chromatography. <i>Journal of Chromatography A</i> , 2020, 1632, 461596.	1.8	15
62	Extract-and-Inject Analysis of Veterinary Drug Residues in Catfish and Ready-to-Eat Meats by Ultrahigh-Performance Liquid Chromatography Tandem Mass Spectrometry. <i>Journal of AOAC INTERNATIONAL</i> , 2020, 103, 584-606.	0.7	14
63	Multiresidue Analysis of Pesticides in Straw Roughage by Liquid Chromatography Tandem Mass Spectrometry. <i>Journal of Agricultural and Food Chemistry</i> , 2016, 64, 6091-6099.	2.4	13
64	Cryogenic Sample Processing with Liquid Nitrogen for Effective and Efficient Monitoring of Pesticide Residues in Foods and Feeds. <i>Journal of Agricultural and Food Chemistry</i> , 2019, 67, 9203-9209.	2.4	13
65	Blind analysis of fortified pesticide residues in carrot extracts using GC-MS to evaluate qualitative and quantitative performance. <i>Journal of Separation Science</i> , 2009, 32, 3706-3719.	1.3	12
66	Structural characterization of product ions by electrospray ionization and quadrupole time-of-flight mass spectrometry to support regulatory analysis of veterinary drug residues in foods. Part 2: Benzimidazoles, nitromidazoles, phenothiazines, and mectins. <i>Rapid Communications in Mass Spectrometry</i> , 2015, 29, 719-729.	0.7	12
67	Use of an Efficient Measurement Uncertainty Approach To Compare Room Temperature and Cryogenic Sample Processing in the Analysis of Chemical Contaminants in Foods. <i>Journal of Agricultural and Food Chemistry</i> , 2018, 66, 4986-4996.	2.4	12
68	Comparison of four different multiclass, multiresidue sample preparation methods in the analysis of veterinary drugs in fish and other food matrices. <i>Analytical and Bioanalytical Chemistry</i> , 2021, 413, 3223-3241.	1.9	11
69	Possibilities and Limitations of Isocratic Fast Liquid Chromatography-Tandem Mass Spectrometry Analysis of Pesticide Residues in Fruits and Vegetables. <i>Chromatographia</i> , 2019, 82, 235-250.	0.7	10
70	Validation of the QuEChERSER mega-method for the analysis of pesticides, veterinary drugs, and environmental contaminants in tilapia (<i>Oreochromis Niloticus</i>). <i>Food Additives and Contaminants - Part A Chemistry, Analysis, Control, Exposure and Risk Assessment</i> , 2022, 39, 699-709.	1.1	9
71	Analysis of pesticides, veterinary drugs, and environmental contaminants in goat and lamb by the QuEChERSER mega-method. <i>Analytical Methods</i> , 2022, 14, 2761-2770.	1.3	8
72	Comparison of analyte identification criteria and other aspects in triple quadrupole tandem mass spectrometry: Case study using UHPLC-MS/MS for regulatory analysis of veterinary drug residues in liquid and powdered eggs. <i>Analytical and Bioanalytical Chemistry</i> , 2022, 414, 287-302.	1.9	6

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73	Structural characterization of product ions of regulated veterinary drugs by electrospray ionization and quadrupole time-of-flight mass spectrometry. Part 3: Anthelmintics and thyreostats. Rapid Communications in Mass Spectrometry, 2016, 30, 813-822.	0.7	4
74	Determination of pesticide residues in nonfatty foods by supercritical fluid extraction and gas chromatography/mass spectrometry: collaborative study. Journal of AOAC INTERNATIONAL, 2002, 85, 1148-66.	0.7	4
75	Committee on Residues and Related Topics. Journal of AOAC INTERNATIONAL, 2006, 89, 1697-1699.	0.7	1
76	Committee on Residues and Related Topics. Journal of AOAC INTERNATIONAL, 2008, 91, 46B-48B.	0.7	1
77	Committee on Residues and Related Topics. Journal of AOAC INTERNATIONAL, 2005, 88, 377-379.	0.7	0
78	Committee on Residues and Related Topics. Journal of AOAC INTERNATIONAL, 2007, 90, 61B-63B.	0.7	0
79	5th Latin American Pesticide Residue Workshop (LAPRW 2015). Chromatographia, 2016, 79, 1057-1059.	0.7	0