

# Imma Ferrer

## List of Publications by Year in descending order

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107  
papers

8,206  
citations

30070

54  
h-index

46799

89  
g-index

108  
all docs

108  
docs citations

108  
times ranked

7150  
citing authors

#	ARTICLE	IF	CITATIONS
1	Wildfires: Identification of a new suite of aromatic polycarboxylic acids in ash and surface water. <i>Science of the Total Environment</i> , 2021, 770, 144661.	8.0	22
2	Sustainable microalgae-based technology for biotransformation of benzalkonium chloride in oil and gas produced water: A laboratory-scale study. <i>Science of the Total Environment</i> , 2020, 748, 141526.	8.0	10
3	Nontargeted Screening of Water Samples Using Data-Dependent Acquisition with Similar Partition Searching. <i>Journal of the American Society for Mass Spectrometry</i> , 2020, 31, 1189-1204.	2.8	7
4	Molecular Identification of Water-Extractable Organic Carbon from Thermally Heated Soils: C-13 NMR and Accurate Mass Analyses Find Benzene and Pyridine Carboxylic Acids. <i>Environmental Science &amp; Technology</i> , 2020, 54, 2994-3001.	10.0	19
5	Desalting and Concentration of Common Hydraulic Fracturing Fluid Additives and their Metabolites with Solid-Phase Extraction. <i>Journal of Chromatography A</i> , 2020, 1622, 461094.	3.7	8
6	Degradation of polyethylene glycols and polypropylene glycols in microcosms simulating a spill of produced water in shallow groundwater. <i>Environmental Sciences: Processes and Impacts</i> , 2019, 21, 256-268.	3.5	27
7	Identification of opioids in surface and wastewaters by LC/QTOF-MS using retrospective data analysis. <i>Science of the Total Environment</i> , 2019, 664, 874-884.	8.0	36
8	Non-target mass spectrometry analysis of NDMA precursors in advanced treatment for potable reuse. <i>Environmental Science: Water Research and Technology</i> , 2018, 4, 1944-1955.	2.4	18
9	Opioid occurrence in environmental water samples—A review. <i>Trends in Environmental Analytical Chemistry</i> , 2018, 20, e00059.	10.3	28
10	Identification of Proprietary Amino Ethoxylates in Hydraulic Fracturing Wastewater Using Liquid Chromatography/Time-of-Flight Mass Spectrometry with Solid-Phase Extraction. <i>Analytical Chemistry</i> , 2018, 90, 10927-10934.	6.5	15
11	Identification of polypropylene glycols and polyethylene glycol carboxylates in flowback and produced water from hydraulic fracturing. <i>Journal of Hazardous Materials</i> , 2017, 323, 11-17.	12.4	68
12	LC/QTOF-MS fragmentation of N-nitrosodimethylamine precursors in drinking water supplies is predictable and aids their identification. <i>Journal of Hazardous Materials</i> , 2017, 323, 18-25.	12.4	23
13	Inhibition of Biodegradation of Hydraulic Fracturing Compounds by Glutaraldehyde: Groundwater Column and Microcosm Experiments. <i>Environmental Science &amp; Technology</i> , 2017, 51, 10251-10261.	10.0	25
14	Organic Chemical Characterization and Mass Balance of a Hydraulically Fractured Well: From Fracturing Fluid to Produced Water over 405 Days. <i>Environmental Science &amp; Technology</i> , 2017, 51, 14006-14015.	10.0	57
15	LC-TOF-MS for the Identification of Environmental Metabolites and Degradation Products. <i>Comprehensive Analytical Chemistry</i> , 2016, , 231-261.	1.3	6
16	Hydraulic fracturing wastewater treatment by coagulation-adsorption for removal of organic compounds and turbidity. <i>Journal of Environmental Chemical Engineering</i> , 2016, 4, 1978-1984.	6.7	72
17	Chemical constituents and analytical approaches for hydraulic fracturing waters. <i>Trends in Environmental Analytical Chemistry</i> , 2015, 5, 18-25.	10.3	141
18	Characterization of hydraulic fracturing flowback water in Colorado: Implications for water treatment. <i>Science of the Total Environment</i> , 2015, 512-513, 637-644.	8.0	283

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19	Methadone Contributes to $\text{N-Nitrosodimethylamine}$ Formation in Surface Waters and Wastewaters during Chloramination. <i>Environmental Science and Technology Letters</i> , 2015, 2, 151-157.	8.7	70
20	Identification of Novel Perfluoroalkyl Ether Carboxylic Acids (PFECAs) and Sulfonic Acids (PFESAs) in Natural Waters Using Accurate Mass Time-of-Flight Mass Spectrometry (TOFMS). <i>Environmental Science &amp; Technology</i> , 2015, 49, 11622-11630.	10.0	288
21	Analysis of hydraulic fracturing additives by LC/Q-TOF-MS. <i>Analytical and Bioanalytical Chemistry</i> , 2015, 407, 6417-6428.	3.7	61
22	Full- and pilot-scale GAC adsorption of organic micropollutants. <i>Water Research</i> , 2015, 68, 238-248.	11.3	115
23	Determination of COREXIT components used in the Deepwater Horizon cleanup by liquid chromatography-ion trap mass spectrometry. <i>Analytical Methods</i> , 2014, 6, 5498-5502.	2.7	8
24	Demonstrating sucralose as a monitor of full-scale UV/AOP treatment of trace organic compounds. <i>Journal of Hazardous Materials</i> , 2014, 280, 104-110.	12.4	38
25	Degradation pathways of lamotrigine under advanced treatment by direct UV photolysis, hydroxyl radicals, and ozone. <i>Chemosphere</i> , 2014, 117, 316-323.	8.2	36
26	Analysis of Hydraulic Fracturing Flowback and Produced Waters Using Accurate Mass: Identification of Ethoxylated Surfactants. <i>Analytical Chemistry</i> , 2014, 86, 9653-9661.	6.5	135
27	Identification of Prometon, Deisopropylprometon, and Hydroxyprometon in Groundwater by High Resolution Liquid Chromatography/Mass Spectrometry. <i>Science of the Total Environment</i> , 2014, 497-498, 459-466.	8.0	10
28	Identification of imidacloprid metabolites in onion ( <i>Allium cepa</i> L.) using high-resolution mass spectrometry and accurate mass tools. <i>Rapid Communications in Mass Spectrometry</i> , 2013, 27, 1891-1903.	1.5	47
29	Analysis of Isobaric Pesticides in Pepper with High-Resolution Liquid Chromatography and Mass Spectrometry: Complementary or Redundant?. <i>Journal of Agricultural and Food Chemistry</i> , 2013, 61, 2340-2347.	5.2	17
30	Analytical Methodologies for the Detection of Sucralose in Water. <i>Analytical Chemistry</i> , 2013, 85, 9581-9587.	6.5	29
31	Dimer formation during UV photolysis of diclofenac. <i>Chemosphere</i> , 2013, 93, 1948-1956.	8.2	56
32	Widespread occurrence of neuro-active pharmaceuticals and metabolites in 24 Minnesota rivers and wastewaters. <i>Science of the Total Environment</i> , 2013, 461-462, 519-527.	8.0	114
33	In-Stream Attenuation of Neuro-Active Pharmaceuticals and Their Metabolites. <i>Environmental Science &amp; Technology</i> , 2013, 47, 9781-9790.	10.0	80
34	Liquid chromatography/quadrupole-time-of-flight mass spectrometry with metabolic profiling of human urine as a tool for environmental analysis of dextromethorphan. <i>Journal of Chromatography A</i> , 2012, 1259, 158-166.	3.7	25
35	Strategies for the multi-residue analysis of 100 pesticides by liquid chromatography-triple quadrupole mass spectrometry. <i>Journal of Chromatography A</i> , 2012, 1249, 164-180.	3.7	47
36	Analysis of 100 pharmaceuticals and their degradates in water samples by liquid chromatography/quadrupole time-of-flight mass spectrometry. <i>Journal of Chromatography A</i> , 2012, 1259, 148-157.	3.7	145

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37	Identification of pesticide transformation products in agricultural soils using liquid chromatography/quadrupole-time-of-flight mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2012, 26, 1091-1099.	1.5	9
38	Methods for evaluating in-stream attenuation of trace organic compounds. <i>Applied Geochemistry</i> , 2011, 26, S344-S345.	3.0	18
39	LC/TOF-MS Analysis of Pesticides in Fruits and Vegetables: The Emerging Role of Accurate Mass in the Unambiguous Identification of Pesticides in Food. <i>Methods in Molecular Biology</i> , 2011, 747, 193-218.	0.9	12
40	The isotopic mass defect: a tool for limiting molecular formulas by accurate mass. <i>Analytical and Bioanalytical Chemistry</i> , 2010, 397, 2807-2816.	3.7	49
41	Analysis of sucralose and other sweeteners in water and beverage samples by liquid chromatography/time-of-flight mass spectrometry. <i>Journal of Chromatography A</i> , 2010, 1217, 4127-4134.	3.7	98
42	Analysis of 70 Environmental Protection Agency priority pharmaceuticals in water by EPA Method 1694. <i>Journal of Chromatography A</i> , 2010, 1217, 5674-5686.	3.7	101
43	Identification of a New Antidepressant and its Glucuronide Metabolite in Water Samples Using Liquid Chromatography/Quadrupole Time-of-Flight Mass Spectrometry. <i>Analytical Chemistry</i> , 2010, 82, 8161-8168.	6.5	70
44	Gas chromatographic-mass spectrometric fragmentation study of phytoestrogens as their trimethylsilyl derivatives: Identification in soy milk and wastewater samples. <i>Journal of Chromatography A</i> , 2009, 1216, 6024-6032.	3.7	47
45	Identification of photocatalytic degradation products of bezafibrate in TiO <sub>2</sub> aqueous suspensions by liquid and gas chromatography. <i>Journal of Chromatography A</i> , 2008, 1183, 38-48.	3.7	53
46	Analysis of illegal dyes in food by LC/TOF-MS. <i>International Journal of Environmental Analytical Chemistry</i> , 2007, 87, 999-1012.	3.3	18
47	Solid-phase extraction followed by liquid chromatography-time-of-flight-mass spectrometry to evaluate pharmaceuticals in effluents. A pilot monitoring study. <i>Journal of Environmental Monitoring</i> , 2007, 9, 718-729.	2.1	58
48	Multi-residue method for the analysis of 101 pesticides and their degradates in food and water samples by liquid chromatography/time-of-flight mass spectrometry. <i>Journal of Chromatography A</i> , 2007, 1175, 24-37.	3.7	196
49	Importance of the electron mass in the calculations of exact mass by time-of-flight mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2007, 21, 2538-2539.	1.5	26
50	Screening and confirmation of 100 pesticides in food samples by liquid chromatography/tandem mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2007, 21, 3869-3882.	1.5	42
51	The even-electron rule in electrospray mass spectra of pesticides. <i>Rapid Communications in Mass Spectrometry</i> , 2007, 21, 3855-3868.	1.5	67
52	Feasibility of LC/TOFMS and elemental database searching as a spectral library for pesticides in food. <i>Food Additives and Contaminants</i> , 2006, 23, 1169-1178.	2.0	47
53	Photolysis and photocatalysis of bisphenol A: identification of degradation products by liquid chromatography with electrospray ionization/time-of-flight/mass spectrometry (LC/ESI/ToF/MS). <i>Food Additives and Contaminants</i> , 2006, 23, 1242-1251.	2.0	27
54	Analysis of Herbicides in Olive Oil by Liquid Chromatography Time-of-Flight Mass Spectrometry. <i>Journal of Agricultural and Food Chemistry</i> , 2006, 54, 6493-6500.	5.2	49

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55	Exact-mass library for pesticides using a molecular-feature database. <i>Rapid Communications in Mass Spectrometry</i> , 2006, 20, 3659-3668.	1.5	75
56	Determination of pesticide residues in olives and olive oil by matrix solid-phase dispersion followed by gas chromatography/mass spectrometry and liquid chromatography/tandem mass spectrometry. <i>Journal of Chromatography A</i> , 2005, 1069, 183-194.	3.7	221
57	Identification and quantitation of pesticides in vegetables by liquid chromatography time-of-flight mass spectrometry. <i>TrAC - Trends in Analytical Chemistry</i> , 2005, 24, 671-682.	11.4	89
58	Matching unknown empirical formulas to chemical structure using LC/MS TOF accurate mass and database searching: example of unknown pesticides on tomato skins. <i>Journal of Chromatography A</i> , 2005, 1067, 127-134.	3.7	123
59	Multi-residue pesticide analysis in fruits and vegetables by liquid chromatography time-of-flight mass spectrometry. <i>Journal of Chromatography A</i> , 2005, 1082, 81-90.	3.7	191
60	Discovering metabolites of post-harvest fungicides in citrus with liquid chromatography/time-of-flight mass spectrometry and ion trap tandem mass spectrometry. <i>Journal of Chromatography A</i> , 2005, 1082, 71-80.	3.7	110
61	Application of time-of-flight mass spectrometry to the analysis of phototransformation products of diclofenac in water under natural sunlight. <i>Journal of Mass Spectrometry</i> , 2005, 40, 908-915.	1.6	186
62	Searching for non-target chlorinated pesticides in food by liquid chromatography/time-of-flight mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2005, 19, 2780-2788.	1.5	64
63	Chapter 9 LC-MS. II: Applications for pesticide food analysis. <i>Comprehensive Analytical Chemistry</i> , 2005, , 403-437.	1.3	2
64	Photo-Fenton Degradation of Diclofenac: Identification of Main Intermediates and Degradation Pathway. <i>Environmental Science &amp; Technology</i> , 2005, 39, 8300-8306.	10.0	349
65	Measuring the Mass of an Electron by LC/TOF-MS: A Study of "Twin Ions". <i>Analytical Chemistry</i> , 2005, 77, 3394-3400.	6.5	56
66	Quantitation and Accurate Mass Analysis of Pesticides in Vegetables by LC/TOF-MS. <i>Analytical Chemistry</i> , 2005, 77, 2818-2825.	6.5	131
67	Chapter 8 LC-MS. I: Basic principles and technical aspects of LC-MS for pesticide analysis. <i>Comprehensive Analytical Chemistry</i> , 2005, , 369-401.	1.3	2
68	Liquid chromatography/time-of-flight mass spectrometric analyses for the elucidation of the photodegradation products of triclosan in wastewater samples. <i>Rapid Communications in Mass Spectrometry</i> , 2004, 18, 443-450.	1.5	74
69	Evidence of 2,7/2,8-dibenzodichloro-p-dioxin as a photodegradation product of triclosan in water and wastewater samples. <i>Analytica Chimica Acta</i> , 2004, 524, 241-247.	5.4	178
70	Combination of LC/TOF-MS and LC/Ion Trap MS/MS for the Identification of Diphenhydramine in Sediment Samples. <i>Analytical Chemistry</i> , 2004, 76, 1437-1444.	6.5	60
71	Intramolecular Isobaric Fragmentation: A Curiosity of Accurate Mass Analysis of Sulfadimethoxine in Pond Water. <i>Analytical Chemistry</i> , 2004, 76, 1228-1235.	6.5	22
72	Effects of the fungicides mancozeb and chlorothalonil on fluxes of CO <sub>2</sub> , N <sub>2</sub> O, and CH <sub>4</sub> in a fertilized Colorado grassland soil. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	9

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73	Effects of the herbicides prosulfuron and metolachlor on fluxes of CO <sub>2</sub> , N <sub>2</sub> O, and CH <sub>4</sub> in a fertilized Colorado grassland soil. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	9
74	Photodegradation of roxarsone in poultry litter leachates. <i>Science of the Total Environment</i> , 2003, 302, 237-245.	8.0	150
75	Liquid chromatography/time-of-flight/mass spectrometry (LC/TOF/MS) for the analysis of emerging contaminants. <i>TrAC - Trends in Analytical Chemistry</i> , 2003, 22, 750-756.	11.4	144
76	Mass spectrometric identification of an azobenzene derivative produced by smectite-catalyzed conversion of 3-amino-4-hydroxyphenylarsonic acid. <i>Talanta</i> , 2003, 59, 1219-1226.	5.5	11
77	Simultaneous Multiple Substrate Tag Detection with ESI-Ion Trap MS for In Vivo Bacterial Enzyme Activity Profiling. <i>Analytical Chemistry</i> , 2002, 74, 4290-4293.	6.5	24
78	Accelerated Solvent Extraction Followed by On-Line Solid-Phase Extraction Coupled to Ion Trap LC/MS/MS for Analysis of Benzalkonium Chlorides in Sediment Samples. <i>Analytical Chemistry</i> , 2002, 74, 1275-1280.	6.5	108
79	Accurate mass analysis of ethanesulfonic acid degradates of acetochlor and alachlor using high-performance liquid chromatography and time-of-flight mass spectrometry. <i>Journal of Chromatography A</i> , 2002, 957, 3-9.	3.7	46
80	Molecular Resolution and Fragmentation of Fulvic Acid by Electrospray Ionization/Multistage Tandem Mass Spectrometry. <i>Analytical Chemistry</i> , 2001, 73, 1461-1471.	6.5	178
81	Choosing between Atmospheric Pressure Chemical Ionization and Electrospray Ionization Interfaces for the HPLC/MS Analysis of Pesticides. <i>Analytical Chemistry</i> , 2001, 73, 5441-5449.	6.5	203
82	Identification of Alkyl Dimethylbenzylammonium Surfactants in Water Samples by Solid-Phase Extraction Followed by Ion Trap LC/MS and LC/MS/MS. <i>Environmental Science &amp; Technology</i> , 2001, 35, 2583-2588.	10.0	125
83	Occurrence of Antifouling Biocides in the Spanish Mediterranean Marine Environment. <i>Environmental Technology (United Kingdom)</i> , 2001, 22, 543-552.	2.2	73
84	Identification of a new degradation product of the antifouling agent Irgarol 1051 in natural samples. <i>Journal of Chromatography A</i> , 2001, 926, 221-228.	3.7	51
85	Determination of drugs in surface water and wastewater samples by liquid chromatography- <sup>13</sup> C mass spectrometry: methods and preliminary results including toxicity studies with <i>Vibrio fischeri</i> . <i>Journal of Chromatography A</i> , 2001, 938, 187-197.	3.7	340
86	On-probe sample pretreatment for the detection of proteins above 15 kDa from whole cell bacteria by matrix-assisted laser desorption/ionization time-of-flight mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2000, 14, 2220-2229.	1.5	92
87	Part-per-trillion level determination of antifouling pesticides and their byproducts in seawater samples by off-line solid-phase extraction followed by high-performance liquid chromatography- <sup>13</sup> C atmospheric pressure chemical ionization mass spectrometry. <i>Journal of Chromatography A</i> , 2000, 879, 27-37.	3.7	122
88	Selective Trace Enrichment of Chlorotriazine Pesticides from Natural Waters and Sediment Samples Using Terbutylazine Molecularly Imprinted Polymers. <i>Analytical Chemistry</i> , 2000, 72, 3934-3941.	6.5	194
89	First LC/MS Determination of Cyanazine Amide, Cyanazine Acid, and Cyanazine in Groundwater Samples. <i>Environmental Science &amp; Technology</i> , 2000, 34, 714-718.	10.0	22
90	Validation of new solid-phase extraction materials for the selective enrichment of organic contaminants from environmental samples. <i>TrAC - Trends in Analytical Chemistry</i> , 1999, 18, 180-192.	11.4	114

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91	Reversible immunosensor for the automatic determination of atrazine. Selection and performance of three polyclonal antisera. <i>Analytica Chimica Acta</i> , 1999, 386, 201-210.	5.4	29
92	Monitoring of pesticides in river water based on samples previously stored in polymeric cartridges followed by on-line solid-phase extraction-liquid chromatographyâ€”diode array detection and confirmation by atmospheric pressure chemical ionization mass spectrometry. <i>Analytica Chimica Acta</i> , 1999, 386, 237-248.	5.4	80
93	Simultaneous determination of antifouling herbicides in marina water samples by on-line solid-phase extraction followed by liquid chromatographyâ€”mass spectrometry. <i>Journal of Chromatography A</i> , 1999, 854, 197-206.	3.7	91
94	Double-Disk Solid-Phase Extraction:Â Simultaneous Cleanup and Trace Enrichment of Herbicides and Metabolites from Environmental Samples. <i>Analytical Chemistry</i> , 1999, 71, 1009-1015.	6.5	53
95	Comparison of automated on-line solid-phase extraction followed by liquid chromatographyâ€”mass spectrometry with atmospheric pressure chemical ionization and particle beam mass spectrometry for the determination of a priority group of pesticides in environmental waters. <i>Journal of Chromatography A</i> , 1998, 794, 147-163.	3.7	79
96	Comparison of various sample handling and analytical procedures for the monitoring of pesticides and metabolites in ground waters. <i>Journal of Chromatography A</i> , 1998, 823, 35-47.	3.7	90
97	Isolation of Priority Polycyclic Aromatic Hydrocarbons from Natural Sediments and Sludge Reference Materials by an Anti-Fluorene Immunosorbent Followed by Liquid Chromatography and Diode Array Detection. <i>Analytical Chemistry</i> , 1998, 70, 4996-5001.	6.5	58
98	Degradation of Chloroacetanilide Herbicides:â€” The Prevalence of Sulfonic and Oxanilic Acid Metabolites in Iowa Groundwaters and Surface Waters. <i>Environmental Science &amp; Technology</i> , 1998, 32, 1738-1740.	10.0	139
99	Identification of Ionic Chloroacetanilideâ€”Herbicide Metabolites in Surface Water and Groundwater by HPLC/MS Using Negative Ion Spray. <i>Analytical Chemistry</i> , 1997, 69, 4547-4553.	6.5	78
100	Pilot Survey for Determination of the Antifouling Agent Irgarol 1051 in Enclosed Seawater Samples by a Direct Enzyme-Linked Immunosorbent Assay and Solid-Phase Extraction Followed by Liquid Chromatographyâ€”Diode Array Detection. <i>Environmental Science &amp; Technology</i> , 1997, 31, 3530-3535.	10.0	74
101	Immunosorbents Coupled On-Line with Liquid Chromatography/Atmospheric Pressure Chemical Ionization/Mass Spectrometry for the Part per Trillion Level Determination of Pesticides in Sediments and Natural Waters Using Low Preconcentration Volumes. <i>Analytical Chemistry</i> , 1997, 69, 4508-4514.	6.5	97
102	Stability of pesticides stored on polymeric solid-phase extraction cartridges. <i>Journal of Chromatography A</i> , 1997, 778, 161-170.	3.7	32
103	Automated sample preparation with extraction columns by means of anti-isoproturon immunosorbents for the determination of phenylurea herbicides in water followed by liquid chromatographyâ€”diode array detection and liquid chromatographyâ€”atmospheric pressure chemical ionization mass spectrometry. <i>Journal of Chromatography A</i> , 1997, 777, 91-98.	3.7	64
104	Evaluation of a Magnetic Particle-Based ELISA for the Determination of Chlorpyrifos- ethyl in Natural Waters and Soil Samples. <i>Environmental Science &amp; Technology</i> , 1996, 30, 509-512.	10.0	26
105	Disappearance of Aerially Applied Fenitrothion in Rice Crop Watersâ€. <i>Environmental Science &amp; Technology</i> , 1996, 30, 3551-3557.	10.0	33
106	Performance of two immunoassays for the determination of atrazine in sea water samples as compared with on-line solid phase extraction-liquid chromatography-diode array detection. <i>Analytica Chimica Acta</i> , 1996, 330, 41-51.	5.4	26
107	Determination and stability of pesticides in freeze-dried water samples by automated on-line solid-phase extraction followed by liquid chromatography with diode-array detection. <i>Journal of Chromatography A</i> , 1996, 737, 93-99.	3.7	36