

# Ramon Barrio

## List of Publications by Year in descending order

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94  
papers

2,531  
citations

159573

30  
h-index

233409

45  
g-index

95  
all docs

95  
docs citations

95  
times ranked

3312  
citing authors

#	ARTICLE	IF	CITATIONS
1	Producing Omega-3 Polyunsaturated Fatty Acids: A Review of Sustainable Sources and Future Trends for the EPA and DHA Market. <i>Resources</i> , 2020, 9, 148.	3.5	97
2	Direct potentiometric quantification of histamine using solid-phase imprinted nanoparticles as recognition elements. <i>Biosensors and Bioelectronics</i> , 2014, 58, 138-144.	10.1	85
3	Paracetamol voltammetric microsensors based on electrocopolymerized molecularly imprinted film modified carbon fiber microelectrodes. <i>Analyst</i> , 2005, 130, 1012.	3.5	81
4	Simultaneous determination of citalopram, fluoxetine and their main metabolites in human urine samples by solid-phase microextraction coupled with high-performance liquid chromatography. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2008, 46, 763-770.	2.8	73
5	Metabolites and hormones are involved in the intraspecific variability of drought hardening in radiata pine. <i>Journal of Plant Physiology</i> , 2015, 188, 64-71.	3.5	69
6	Sensitive determination of triazines in underground waters using stir bar sorptive extraction directly coupled to automated thermal desorption and gas chromatography-mass spectrometry. <i>Analytica Chimica Acta</i> , 2009, 641, 110-116.	5.4	68
7	Coupling solid-phase microextraction and high-performance liquid chromatography for direct and sensitive determination of halogenated fungicides in wine. <i>Journal of Chromatography A</i> , 2003, 995, 135-142.	3.7	66
8	Simple and rapid determination of biogenic amines in wine by liquid chromatography-electrospray ionization ion trap mass spectrometry. <i>Analytica Chimica Acta</i> , 2007, 584, 145-152.	5.4	66
9	Solute accumulation and elastic modulus changes in six radiata pine breeds exposed to drought. <i>Tree Physiology</i> , 2013, 33, 69-80.	3.1	66
10	Untargeted metabolomic analysis using liquid chromatography quadrupole time-of-flight mass spectrometry for non-volatile profiling of wines. <i>Analytica Chimica Acta</i> , 2015, 858, 32-41.	5.4	66
11	Solid-phase microextraction coupled with high performance liquid chromatography using on-line diode-array and electrochemical detection for the determination of fenitrothion and its main metabolites in environmental water samples. <i>Journal of Chromatography A</i> , 2005, 1094, 70-76.	3.7	60
12	Evaluation of the selective detection of 4,6-dinitro-o-cresol by a molecularly imprinted polymer based microsensor electrosynthesized in a semiorganic media. <i>Sensors and Actuators B: Chemical</i> , 2008, 130, 713-722.	7.8	55
13	Development of a stir bar sorptive extraction based HPLC-FLD method for the quantification of serotonin reuptake inhibitors in plasma, urine and brain tissue samples. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2010, 51, 178-185.	2.8	53
14	Multi-residue analysis of pharmaceutical compounds in wastewaters by dual solid-phase microextraction coupled to liquid chromatography electrospray ionization ion trap mass spectrometry. <i>Journal of Chromatography A</i> , 2010, 1217, 3392-3399.	3.7	53
15	Determination of fluoxetine, norfluoxetine and their enantiomers in rat plasma and brain samples by liquid chromatography with fluorescence detection. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2007, 852, 519-528.	2.3	51
16	A novel method for the identification of inorganic and organic gunshot residue particles of lead-free ammunitions from the hands of shooters using scanning laser ablation-ICPMS and Raman micro-spectroscopy. <i>Analyst</i> , 2014, 139, 6232-6241.	3.5	50
17	Characterization of organic gunshot residues in lead-free ammunition using a new sample collection device for liquid chromatography-quadrupole time-of-flight mass spectrometry. <i>Forensic Science International</i> , 2015, 246, 79-85.	2.2	50
18	A retention time locked gas chromatography-mass spectrometry method based on stir-bar sorptive extraction and thermal desorption for automated determination of synthetic musk fragrances in natural and wastewaters. <i>Journal of Chromatography A</i> , 2011, 1218, 3048-3055.	3.7	48

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19	Chiral imprinted polymers as enantiospecific coatings of stir bar sorptive extraction devices. <i>Biosensors and Bioelectronics</i> , 2011, 28, 25-32.	10.1	47
20	Using a portable device based on a screen-printed sensor modified with a molecularly imprinted polymer for the determination of the insecticide fenitrothion in forest samples. <i>Analytical Methods</i> , 2010, 2, 1280.	2.7	46
21	Unambiguous Characterization of Gunshot Residue Particles Using Scanning Laser Ablation and Inductively Coupled Plasma-Mass Spectrometry. <i>Analytical Chemistry</i> , 2012, 84, 2402-2409.	6.5	44
22	Solid-phase microextraction for the determination of systemic and non-volatile pesticides in river water using gas chromatography with nitrogen-phosphorous and electron-capture detection. <i>Journal of Chromatography A</i> , 2000, 893, 347-358.	3.7	43
23	Identification and quantification of glucosinolates in rapeseed using liquid chromatography-ion trap mass spectrometry. <i>Analytical and Bioanalytical Chemistry</i> , 2009, 394, 1661-1669.	3.7	42
24	Screening and quantification of antipsychotic drugs in human brain tissue by liquid chromatography-tandem mass spectrometry: Application to postmortem diagnostics of forensic interest. <i>Forensic Science International</i> , 2012, 219, 172-178.	2.2	41
25	Molecularly imprinted poly[tetra(o-aminophenyl)porphyrin] as a stable and selective coating for the development of voltammetric sensors. <i>Journal of Electroanalytical Chemistry</i> , 2010, 638, 246-253.	3.8	40
26	Characterisation of the flavour profile from Graciano Vitis vinifera wine variety by a novel dual stir bar sorptive extraction methodology coupled to thermal desorption and gas chromatography-mass spectrometry. <i>Analytica Chimica Acta</i> , 2013, 777, 41-48.	5.4	38
27	LC-QTOF-MS-based targeted metabolomics of arginine-creatine metabolic pathway-related compounds in plasma: application to identify potential biomarkers in pediatric chronic kidney disease. <i>Analytical and Bioanalytical Chemistry</i> , 2016, 408, 747-760.	3.7	38
28	Determination of imidacloprid and its major metabolite in soils by liquid chromatography with pulsed reductive amperometric detection. <i>Analytica Chimica Acta</i> , 1997, 349, 199-206.	5.4	37
29	A novel strategy for Cr(III) and Cr(VI) analysis in dietary supplements by speciated isotope dilution mass spectrometry. <i>Talanta</i> , 2016, 154, 255-262.	5.5	37
30	Determination of catecholamines and their metabolites in human plasma using liquid chromatography with coulometric multi-electrode cell-design detection. <i>Analytica Chimica Acta</i> , 2001, 444, 211-221.	5.4	35
31	Risk assessment of exposure to pesticides through dietary intake of vegetables typical of the Mediterranean diet in the Basque Country. <i>Journal of Food Composition and Analysis</i> , 2016, 49, 35-41.	3.9	30
32	Multimembrane carbon fiber microelectrodes for amperometric determination of serotonin in human urine. <i>Analyst</i> , 2001, 126, 495-500.	3.5	29
33	Sequential stir bar extraction, thermal desorption and retention time locked GC-MS for determination of pesticides in water. <i>Journal of Separation Science</i> , 2009, 32, 3449-3456.	2.5	29
34	Iniferter-mediated grafting of molecularly imprinted polymers on porous silica beads for the enantiomeric resolution of drugs. <i>Journal of Molecular Recognition</i> , 2016, 29, 106-114.	2.1	28
35	Molecularly imprinted nanoparticles grafted to porous silica as chiral selectors in liquid chromatography. <i>Journal of Chromatography A</i> , 2017, 1508, 53-64.	3.7	28
36	Plasma biomarker discovery for early chronic kidney disease diagnosis based on chemometric approaches using LC-QTOF targeted metabolomics data. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2018, 149, 46-56.	2.8	28

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37	Voltammetric Determination of Metamitron with an Electrogenerated Molecularly Imprinted Polymer Microsensor. <i>Electroanalysis</i> , 2007, 19, 356-363.	2.9	27
38	Voltammetric sensors with chiral recognition capability: The use of a chiral inducing agent in polyaniline electrochemical synthesis for the specific recognition of the enantiomers of the pesticide dinoseb. <i>Electrochimica Acta</i> , 2011, 58, 729-735.	5.2	27
39	A new potentiometric sensor based on chiral imprinted nanoparticles for the discrimination of the enantiomers of the antidepressant citalopram. <i>Electrochimica Acta</i> , 2016, 196, 496-504.	5.2	27
40	Liquid chromatography- <sup>4</sup> quadrupole time of flight tandem mass spectrometry-based targeted metabolomic study for varietal discrimination of grapes according to plant sterols content. <i>Journal of Chromatography A</i> , 2016, 1454, 67-77.	3.7	26
41	Water compatible stir-bar devices imprinted with underivatized glyphosate for selective sample clean-up. <i>Journal of Chromatography A</i> , 2016, 1451, 23-32.	3.7	26
42	Development of matrix-matching hydroxyapatite calibration standards for quantitative multi-element LA-ICP-MS analysis: application to the dorsal spine of fish. <i>Journal of Analytical Atomic Spectrometry</i> , 2011, 26, 1421.	3.0	25
43	Analytical procedures for the determination of the selective serotonin reuptake inhibitor antidepressant citalopram and its metabolites. <i>Biomedical Chromatography</i> , 2011, 25, 238-257.	1.7	25
44	Optimization and validation of a method of analysis for fenitrothion and its main metabolites in forestry air samples using sorbent tubes with thermal desorption cold trap injection and gas chromatography-mass spectrometry. <i>Journal of Chromatography A</i> , 2004, 1059, 165-170.	3.7	23
45	Speciation of Volatile Aromatic and Chlorinated Hydrocarbons in an Urban Atmosphere Using TCT-GC/MS. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2005, 40, 343-367.	1.7	23
46	Solid phase microextraction coupled to liquid chromatography-inductively coupled plasma mass spectrometry for the speciation of organotin compounds in water samples. <i>Journal of Analytical Atomic Spectrometry</i> , 2009, 24, 347-351.	3.0	23
47	Untargeted metabolomics for plasma biomarker discovery for early chronic kidney disease diagnosis in pediatric patients using LC-QTOF-MS. <i>Analyst</i> , 2018, 143, 4448-4458.	3.5	23
48	Molecularly imprinted polymers as a tool for the study of the 4-ethylphenol metabolic pathway in red wines. <i>Journal of Chromatography A</i> , 2015, 1410, 164-172.	3.7	20
49	Validation of an LC-ESI-MS/MS method for the quantitation of phosphodiesterase-5 inhibitors and their main metabolites in rat serum and brain tissue samples. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2012, 70, 529-533.	2.8	18
50	Rational design and chromatographic evaluation of histamine imprinted polymers optimized for solid-phase extraction of wine samples. <i>Journal of Chromatography A</i> , 2013, 1308, 45-51.	3.7	18
51	Differential-pulse adsorptive stripping voltammetry of the herbicides metamitron and isometiozine. <i>Fresenius' Journal of Analytical Chemistry</i> , 1991, 339, 166-168.	1.5	17
52	Electrochemical study of the flavour enhancer maltol. Determination in foods by liquid chromatography with amperometric detection. <i>Analytica Chimica Acta</i> , 1996, 327, 65-71.	5.4	17
53	Quantification of fenitrothion and its main metabolites in poplar leaves by isotope dilution gas chromatography-mass spectrometry coupled with solid-phase microextraction. <i>Journal of Chromatography A</i> , 2008, 1177, 170-174.	3.7	17
54	Enantioselective extraction of (+)-(S)-citalopram and its main metabolites using a tailor-made stir bar chiral imprinted polymer for their LC-ESI-MS/MS quantitation in urine samples. <i>Talanta</i> , 2013, 116, 448-453.	5.5	17

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55	Particle Analysis for the Detection of Gunshot Residue (GSR) in Nasal Samples Using Scanning Laser Ablation and Inductively Coupled Plasma-CPMS. <i>Journal of Forensic Sciences</i> , 2020, 65, 1094-1101.	1.6	17
56	Characterization of ancient lipids in prehistoric organic residues: Chemical evidence of livestock pens in rock shelters since early neolithic to bronze age. <i>Journal of Separation Science</i> , 2017, 40, 4549-4562.	2.5	16
57	Plastidial Phosphoglucose Isomerase Is an Important Determinant of Seed Yield through Its Involvement in Gibberellin-Mediated Reproductive Development and Storage Reserve Biosynthesis in <i>Arabidopsis</i> . <i>Plant Cell</i> , 2018, 30, 2082-2098.	6.6	15
58	Stereoselective determination of demethyl- and didemethyl-citalopram in rat plasma and brain tissue by liquid chromatography with fluorescence detection using precolumn derivatization. <i>Biomedical Chromatography</i> , 2008, 22, 265-271.	1.7	14
59	Nuclear diacylglycerol lipase in rat brain cortical neurons: evidence of arachidonoylglycerol production in concert with phospholipase C <sup>2</sup> activity. <i>Journal of Neurochemistry</i> , 2015, 132, 489-503.	3.9	14
60	Determination of simazine and cymoxanil in soils by microwave-assisted solvent extraction and HPLC with reductive amperometrical detection. <i>Chromatographia</i> , 2002, 55, 667-671.	1.3	13
61	Fungicide distribution in vitiviculture ecosystems according to different application strategies to reduce environmental impact. <i>Science of the Total Environment</i> , 2019, 687, 319-329.	8.0	13
62	Utilization of a silica-modified carbon paste electrode for the direct determination of todralazine in biological fluids. <i>Analytica Chimica Acta</i> , 1993, 273, 93-99.	5.4	12
63	Poly(3-methylthiophene)-Coated Carbon Fiber Microelectrode for the Voltammetric Measurement of Herbicide Metamitron. <i>Electroanalysis</i> , 1999, 11, 1222-1226.	2.9	12
64	Determination of mercury(II) in water at sub-nanomolar levels by laser ablation-ICPMS analysis of screen printed electrodes used as a portable voltammetric preconcentration system. <i>Analyst</i> , The, 2017, 142, 1157-1164.	3.5	12
65	Adsorption-leaching study of the herbicides metamitron and chloridazon. <i>Pest Management Science</i> , 1991, 32, 259-264.	0.4	11
66	Evaluation of the bioaccumulation of trace elements in tuna species by correlation analysis between their concentrations in muscle and first dorsal spine using microwave-assisted digestion and ICP-MS. <i>International Journal of Environmental Analytical Chemistry</i> , 2012, 92, 1761-1775.	3.3	11
67	LC-QQQ-MS routine analysis method for new biomarker quantification in plasma aimed at early chronic kidney disease diagnosis. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2019, 169, 82-89.	2.8	11
68	Hormones and bile acids as biomarkers for the characterization of animal management in prehistoric sheepfold caves: El Mirador case (Sierra de Atapuerca, Burgos, Spain). <i>Journal of Archaeological Science</i> , 2022, 138, 105547.	2.4	11
69	Electrochemical study and determination of todralazine by adsorptive stripping voltammetry. <i>Electroanalysis</i> , 1991, 3, 423-427.	2.9	9
70	Joint determination of todralazine and acetazolamide in human serum by differential pulse polarography. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 1994, 12, 883-887.	2.8	9
71	Evaluation of amperometric detection at a glassy carbon electrode for the liquid-chromatographic determination of antihypertensive substances. <i>Analyst</i> , The, 1994, 119, 269.	3.5	9
72	Determination of phytosterols in oenological matrices by liquid chromatography-atmospheric pressure chemical ionization and ion-trap mass spectrometry. <i>Journal of Food Composition and Analysis</i> , 2015, 42, 171-178.	3.9	9

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73	Production of Docosahexaenoic Acid and Odd-Chain Fatty Acids by Microalgae <i>Schizochytrium limacinum</i> Grown on Waste-Derived Volatile Fatty Acids. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 3976.	2.5	9
74	Persistence of the Insecticide Dimilin 45 ODC on Conifer Forest Foliage in an Atlantic-Climate Ecosystem. <i>Environmental Science &amp; Technology</i> , 2001, 35, 3804-3808.	10.0	8
75	Metabolomics in non-arteritic anterior ischemic optic neuropathy patients by liquid chromatography–quadrupole time-of-flight mass spectrometry. <i>Metabolomics</i> , 2015, 11, 468-476.	3.0	8
76	Controlled grafting of molecularly imprinted films on gold microelectrodes using a self-assembled thiol iniferter. <i>Electrochimica Acta</i> , 2018, 279, 57-65.	5.2	8
77	HPLC/Diode-Array Method for the Determination of the Pesticide Diflubenzuron and Its Major Metabolites 2,6-Difluorobenzamide, 4-Chlorophenylurea, and 4-Chloroaniline in Forestry Matrices. <i>Journal of Liquid Chromatography and Related Technologies</i> , 1998, 21, 1857-1870.	1.0	7
78	Determination of methylarginines in human plasma by HPLC with pre-column derivatization using naphthalenedicarboxaldehyde as fluorogenic agent. <i>Journal of Separation Science</i> , 2002, 25, 665-670.	2.5	7
79	Solid-phase synthesis of imprinted nanoparticles as artificial antibodies against the C-terminus of the cannabinoid CB1 receptor: exploring a viable alternative for bioanalysis. <i>Mikrochimica Acta</i> , 2021, 188, 368.	5.0	7
80	Determination of N-nitrosopiperidine in beers by liquid chromatography with reductive amperometric detection at a hanging mercury drop electrode. <i>Analytica Chimica Acta</i> , 1995, 305, 310-317.	5.4	6
81	Determination of 4-Chloroaniline and 4-Chlorophenyl Urea in Honey By Liquid Chromatography with Electrochemical Detection. <i>Journal of Liquid Chromatography and Related Technologies</i> , 1997, 20, 1591-1603.	1.0	6
82	Electrochemical detection of todralazine in high-performance liquid chromatography. <i>Electroanalysis</i> , 1991, 3, 429-433.	2.9	4
83	Determination of the insecticide pyridafenthion in river water, soils and wine by adsorptive stripping voltammetry. <i>Food Additives and Contaminants</i> , 1998, 15, 793-800.	2.0	4
84	Voltammetric method for the determination of the flavour enhancer inosinic acid. <i>Analyst, The</i> , 1994, 119, 2183.	3.5	3
85	Determination of Nematicide Aldicarb and Its Metabolites Aldicarb Sulfoxide and Aldicarb Sulfone in Soils and Potatoes by Liquid Chromatography With Photodiode Array Detection. <i>Journal of Liquid Chromatography and Related Technologies</i> , 1995, 18, 3243-3256.	1.0	3
86	Persistence of Diflubenzuron on Conifer Forest Foliage in a Mediterranean-Climate Ecosystem Following Aerial Application. <i>International Journal of Environmental Analytical Chemistry</i> , 2003, 83, 433-442.	3.3	3
87	Interplay between 1-aminocyclopropane-1-carboxylic acid, $\beta$ -aminobutyrate and D-glucose in the regulation of high nitrate-induced root growth inhibition in maize. <i>Plant Science</i> , 2020, 293, 110418.	3.6	3
88	Use of derivatization reactions with adsorptive stripping voltammetry for determining fofemustine in biological samples. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 1992, 10, 481-486.	2.8	2
89	Multisorbent tubes sampling used in thermal desorption cold trap injection with gas chromatography-mass spectrometry for C <sub>2</sub> –C <sub>6</sub> hydrocarbon measurements in an urban atmosphere. <i>International Journal of Environmental Analytical Chemistry</i> , 2004, 84, 341-353.	3.3	2
90	Livestock activity biomarkers: Estimating domestication and diet of livestock in ancient samples. <i>Journal of Archaeological Science: Reports</i> , 2021, 40, 103220.	0.5	2

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91	Biostimulants as an Alternative to Improve the Wine Quality from <i>Vitis vinifera</i> (cv. Tempranillo) in La Rioja. <i>Plants</i> , 2022, 11, 1594.	3.5	2
92	A linear-polymer-based lactoferrin-selective recognition element for an ELISA mimic: A proof of concept. <i>Analytica Chimica Acta</i> , 2022, 1191, 339309.	5.4	1
93	Laser bidezko ablazioaren egungo egoera eta aplikazioak. <i>Ekaia (journal)</i> , 2017, , .	0.0	0
94	Ikerketa metabolomikoak haurretan gertatzen den giltzurrun gutxiegitasun kronikoaren diagnostikorako biomarkatzaile berrien identifikazioan. <i>Ekaia (journal)</i> , 2020, , 65-81.	0.0	0