

Ramon Barrio

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

92
papers

2,005
citations

29
h-index

39
g-index

95
ext. papers

2,266
ext. citations

4.6
avg, IF

4.59
L-index

#	Paper	IF	Citations
92	Direct potentiometric quantification of histamine using solid-phase imprinted nanoparticles as recognition elements. <i>Biosensors and Bioelectronics</i> , 2014 , 58, 138-44	11.8	80
91	Paracetamol voltammetric microsensors based on electrocopolymerized-molecularly imprinted film modified carbon fiber microelectrodes. <i>Analyst, The</i> , 2005 , 130, 1012-8	5	76
90	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, 135-42	4.5	64
89	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, 110-6	6.6	62
88	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, 763-70	3.5	61
87	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, 145-52	6.6	58
86	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, 70-6	4.5	56
85	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	6.6	55
84	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, 178-85	3.5	51
83	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	8.5	51
82	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, 3392-9	4.5	49
81	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, 519-28	3.2	46
80	Solute accumulation and elastic modulus changes in six radiata pine breeds exposed to drought. <i>Tree Physiology</i> , 2013 , 33, 69-80	4.2	45
79	Chiral imprinted polymers as enantiospecific coatings of stir bar sorptive extraction devices. <i>Biosensors and Bioelectronics</i> , 2011 , 28, 25-32	11.8	43
78	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	2.6	40
77	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	3.7	40
76	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, The</i> , 2014 , 139, 6232-41	5	39

75	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, 347-58	4.5	38
74	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	3.2	37
73	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, 3048-55	4.5	36
72	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	4.1	36
71	Identification and quantification of glucosinolates in rapeseed using liquid chromatography-ion trap mass spectrometry. <i>Analytical and Bioanalytical Chemistry</i> , 2009 , 394, 1661-9	4.4	35
70	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, 172-8	2.6	33
69	Unambiguous characterization of gunshot residue particles using scanning laser ablation and inductively coupled plasma-mass spectrometry. <i>Analytical Chemistry</i> , 2012 , 84, 2402-9	7.8	33
68	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	6.6	33
67	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, 41-8	6.6	32
66	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	3.6	31
65	A novel strategy for Cr(III) and Cr(VI) analysis in dietary supplements by speciated isotope dilution mass spectrometry. <i>Talanta</i> , 2016 , 154, 255-62	6.2	31
64	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	6.6	30
63	Voltammetric Determination of Metamitron with an Electrogenerated Molecularly Imprinted Polymer Microsensor. <i>Electroanalysis</i> , 2007 , 19, 356-363	3	26
62	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, 747-60	4.4	24
61	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	6.7	24
60	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, 3449-56	3.4	24
59	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, 106-14	2.6	23
58	Multimembrane carbon fiber microelectrodes for amperometric determination of serotonin in human urine. <i>Analyst, The</i> , 2001 , 126, 495-500	5	23

57	Molecularly imprinted nanoparticles grafted to porous silica as chiral selectors in liquid chromatography. <i>Journal of Chromatography A</i> , 2017 , 1508, 53-64	4.5	22
56	Analytical procedures for the determination of the selective serotonin reuptake inhibitor antidepressant citalopram and its metabolites. <i>Biomedical Chromatography</i> , 2011 , 25, 238-57	1.7	22
55	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	3.7	22
54	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	3.7	21
53	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, 165-70	4.5	21
52	Liquid chromatography-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	4.5	21
51	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, 343-67	2.3	20
50	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	4.1	20
49	Water compatible stir-bar devices imprinted with underivatized glyphosate for selective sample clean-up. <i>Journal of Chromatography A</i> , 2016 , 1451, 23-32	4.5	19
48	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	6.7	19
47	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, 164-72	4.5	18
46	Enantioselective extraction of (+)-(-)-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, 448-53	6.2	16
45	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	4.5	15
44	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, 529-33	3.5	15
43	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, 170-4	4.5	15
42	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	3.5	15
41	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, 265-71	1.7	14
40	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	6.6	12

39	Differential-pulse adsorptive stripping voltammetry of the herbicides metamitron and isometiozine. <i>Fresenius Journal of Analytical Chemistry</i> , 1991 , 339, 166-168		12
38	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, The</i> , 2017 , 142, 1157-1164	5	11
37	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	2.1	11
36	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	10.2	10
35	Nuclear diacylglycerol lipase- α in rat brain cortical neurons: evidence of 2-arachidonoylglycerol production in concert with phospholipase C- α activity. <i>Journal of Neurochemistry</i> , 2015 , 132, 489-503	6	10
34	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	1.8	9
33	Joint determination of todralazine and acetazolamide in human serum by differential pulse polarography. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 1994 , 12, 883-7	3.5	9
32	Adsorption-leaching study of the herbicides metamitron and chloridazon. <i>Pest Management Science</i> , 1991 , 32, 259-264		9
31	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	6.6	9
30	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	4.7	8
29	Poly(3-methylthiophene)-Coated Carbon Fiber Microelectrode for the Voltammetric Measurement of Herbicide Metamitron. <i>Electroanalysis</i> , 1999 , 11, 1222-1226	3	8
28	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	3.4	7
27	Particle Analysis for the Detection of Gunshot Residue (GSR) in Nasal Samples Using Scanning Laser Ablation and Inductively Coupled Plasma-Mass Spectrometry (SLA-ICPMS). <i>Journal of Forensic Sciences</i> , 2020 , 65, 1094-1101	1.8	7
26	Untargeted metabolomics for plasma biomarker discovery for early chronic kidney disease diagnosis in pediatric patients using LC-QTOF-MS. <i>Analyst, The</i> , 2018 , 143, 4448-4458	5	7
25	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	4.1	7
24	Evaluation of amperometric detection at a glassy carbon electrode for the liquid-chromatographic determination of antihypertensive substances. <i>Analyst, The</i> , 1994 , 119, 269	5	7
23	Electrochemical study and determination of todralazine by adsorptive stripping voltammetry. <i>Electroanalysis</i> , 1991 , 3, 423-427	3	7
22	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	3.5	6

21	Plastidial Phosphoglucose Isomerase Is an Important Determinant of Seed Yield through Its Involvement in Gibberellin-Mediated Reproductive Development and Storage Reserve Biosynthesis in Arabidopsis. <i>Plant Cell</i> , 2018 , 30, 2082-2098	11.6	6
20	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	3.4	6
19	Persistence of the insecticide Dimilin 45 ODC on conifer forest foliage in an Atlantic-climate ecosystem. <i>Environmental Science & Technology</i> , 2001 , 35, 3804-8	10.3	6
18	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	1.3	5
17	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	6.6	5
16	Controlled grafting of molecularly imprinted films on gold microelectrodes using a self-assembled thiol iniferter. <i>Electrochimica Acta</i> , 2018 , 279, 57-65	6.7	5
15	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	1.3	3
14	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	1.8	3
13	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		3
12	Voltammetric method for the determination of the flavour enhancer inosinic acid. <i>Analyst, The</i> , 1994 , 119, 2183	5	3
11	Electrochemical detection of todralazine in high-performance liquid chromatography. <i>Electroanalysis</i> , 1991 , 3, 429-433	3	3
10	Interplay between 1-aminocyclopropane-1-carboxylic acid, L-aminobutyrate and D-glucose in the regulation of high nitrate-induced root growth inhibition in maize. <i>Plant Science</i> , 2020 , 293, 110418	5.3	2
9	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		2
8	Plastic Receptors Developed by Imprinting Technology as Smart Polymers Imitating Natural Behavior 2021 , 69-116		2
7	Multisorbent tubes sampling used in thermal desorption cold trap injection with gas chromatography-mass spectrometry for C ₂₀₋₂₆ hydrocarbon measurements in an urban atmosphere. <i>International Journal of Environmental Analytical Chemistry</i> , 2004 , 84, 341-353	1.8	1
6	Use of derivatization reactions with adsorptive stripping voltammetry for determining fotelestine in biological samples. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 1992 , 10, 481-6	3.5	1
5	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	2.9	1
4	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	5.8	1

3	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	2.6	1
2	Livestock activity biomarkers: Estimating domestication and diet of livestock in ancient samples. <i>Journal of Archaeological Science: Reports</i> , 2021 , 40, 103220	0.7	0
1	A linear-polymer-based lactoferrin-selective recognition element for an ELISA mimic: A proof of concept.. <i>Analytica Chimica Acta</i> , 2022 , 1191, 339309	6.6	