

Ramon J Barrio

List of Publications by Year in descending order

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44
papers

1,506
citations

236925

25
h-index

315739

38
g-index

45
all docs

45
docs citations

45
times ranked

2000
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> , The, 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	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
6	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
7	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
8	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
9	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
10	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> , The, 2014, 139, 6232-6241.	3.5	50
11	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
12	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
13	Chiral imprinted polymers as enantiospecific coatings of stir bar sorptive extraction devices. <i>Biosensors and Bioelectronics</i> , 2011, 28, 25-32.	10.1	47
14	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
15	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
16	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
17	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
18	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

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19	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
20	Multimembrane carbon fiber microelectrodes for amperometric determination of serotonin in human urine. <i>Analyst</i> , 2001, 126, 495-500.	3.5	29
21	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
22	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
23	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
24	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
25	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
26	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.	3.7	26
27	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
28	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
29	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
30	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
31	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
32	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
33	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
34	Enantioselective extraction of (+)-(<i>S</i>)-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
35	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.	1.6	17
36	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

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37	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
38	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
39	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
40	Persistence of the Insecticide Dimilin 45 ODC on Conifer Forest Foliage in an Atlantic-Climate Ecosystem. <i>Environmental Science & Technology</i> , 2001, 35, 3804-3808.	10.0	8
41	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
42	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
43	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
44	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