

# RaÃ³l Gil

## List of Publications by Year in descending order

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Version: 2024-02-01

53  
papers

1,364  
citations

304743

22  
h-index

361022

35  
g-index

54  
all docs

54  
docs citations

54  
times ranked

1453  
citing authors

| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 1  | Preconcentration and speciation of chromium in drinking water samples by coupling of on-line sorption on activated carbon to ETAAS determination. <i>Talanta</i> , 2006, 68, 1065-1070.   | 5.5  | 109       |
| 2  | Experimental investigation on arsenic removal with a nanofiltration pilot plant from naturally contaminated groundwater. <i>Desalination</i> , 2011, 274, 1-6.  | 8.2  | 65        |
| 3  | Biosorption: A new rise for elemental solid phase extraction methods. <i>Talanta</i> , 2011, 85, 2290-2300.   | 5.5  | 60        |
| 4  | Application of multi-walled carbon nanotubes as substrate for the on-line preconcentration, speciation and determination of vanadium by ETAAS. <i>Journal of Analytical Atomic Spectrometry</i> , 2007, 22, 1290.   | 3.0  | 57        |
| 5  | On-line arsenic co-precipitation on ethyl vinyl acetate turning-packed mini-column followed by hydride generation-ICP OES determination. <i>Journal of Hazardous Materials</i> , 2007, 143, 431-436.  | 12.4 | 55        |
| 6  | On-line solid phase extraction of Ni and Pb using carbon nanotubes and modified carbon nanotubes coupled to ETAAS. <i>Talanta</i> , 2011, 85, 245-251.  | 5.5  | 55        |
| 7  | Total and inorganic mercury determination in biodiesel by emulsion sample introduction and FI-CV-AFS after multivariate optimization. <i>Journal of Analytical Atomic Spectrometry</i> , 2009, 24, 1441.  | 3.0  | 53        |
| 8  | Cloud point extraction of mercury with PONPE 7.5 prior to its determination in biological samples by ETAAS. <i>Talanta</i> , 2008, 75, 307-311.   | 5.5  | 52        |
| 9  | Cloud point extraction for cobalt preconcentration with on-line phase separation in a knotted reactor followed by ETAAS determination in drinking waters. <i>Talanta</i> , 2008, 76, 669-673.   | 5.5  | 49        |
| 10 | l-Tyrosine immobilized on multiwalled carbon nanotubes: A new substrate for thallium separation and speciation using stabilized temperature platform furnace-electrothermal atomic absorption spectrometry. <i>Analytica Chimica Acta</i> , 2009, 656, 36-41. | 5.4  | 45        |
| 11 | Speciation analysis of thallium using electrothermal AAS following on-line pre-concentration in a microcolumn filled with multiwalled carbon nanotubes. <i>Mikrochimica Acta</i> , 2009, 167, 187-193.  | 5.0  | 39        |
| 12 | Multielemental analysis in vegetable edible oils by inductively coupled plasma mass spectrometry after solubilisation with tetramethylammonium hydroxide. <i>Food Chemistry</i> , 2014, 159, 433-438.   | 8.2  | 39        |
| 13 | Slurry sampling in serum blood for mercury determination by CV-AFS. <i>Journal of Hazardous Materials</i> , 2009, 161, 1399-1403.   | 12.4 | 36        |
| 14 | Study of carbon nanotubes and functionalized-carbon nanotubes as substrates for flow injection solid phase extraction associated to inductively coupled plasma with ultrasonic nebulization. <i>Microchemical Journal</i> , 2011, 98, 225-230.                | 4.5  | 35        |
| 15 | On-line preconcentration and determination of chromium in parenteral solutions by inductively coupled plasma optical emission spectrometry. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2005, 60, 531-535.                                      | 2.9  | 34        |
| 16 | Cloud point extraction for ultra-trace Cd determination in microwave-digested biological samples by ETAAS. <i>Talanta</i> , 2008, 77, 663-666.  | 5.5  | 31        |
| 17 | Flow injection system for the on-line preconcentration of Pb by cloud point extraction coupled to USNâ€™ICP OES. <i>Microchemical Journal</i> , 2010, 95, 306-310.  | 4.5  | 31        |
| 18 | Trace aluminium determination in biological samples after microwave digestion followed by solid phase extraction with l-methionine on controlled pore glass. <i>Microchemical Journal</i> , 2008, 89, 1-6.  | 4.5  | 29        |

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|----|--|------|-----------|
| 19 | Online solid phase extraction-HPLC-ICP-MS system for mercury and methylmercury preconcentration using functionalised carbon nanotubes for their determination in dietary supplements. <i>Journal of Analytical Atomic Spectrometry</i> , 2018, 33, 1737-1744.        | 3.0  | 27        |
| 20 | A fully automated system for inorganic antimony preconcentration and speciation in urine. <i>Analytica Chimica Acta</i> , 2007, 603, 1-7.  | 5.4  | 26        |
| 21 | A novel on-line preconcentration method for trace molybdenum determination by USNâ€™ICP OES with biosorption on immobilized yeasts. <i>Microchemical Journal</i> , 2007, 86, 156-160.  | 4.5  | 26        |
| 22 | Study of matrix effects and spectral interferences in the determination of lead in sediments, sludges and soils by SR-ETAAS using slurry sampling. <i>Talanta</i> , 2010, 82, 523-527.   | 5.5  | 26        |
| 23 | Determination of trace elements in biological samples treated with formic acid by inductively coupled plasma mass spectrometry using a microconcentric nebulizer. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2010, 65, 959-966.                       | 2.9  | 23        |
| 24 | Determination of chemical oxygen demand by a flow injection method based on microwave digestion and chromium speciation coupled to inductively coupled plasma optical emission spectrometry. <i>Talanta</i> , 2012, 97, 273-278.                                     | 5.5  | 22        |
| 25 | The use of electrothermal vaporizer coupled to the inductively coupled plasma mass spectrometry for the determination of arsenic, selenium and transition metals in biological samples treated with formic acid. <i>Analytica Chimica Acta</i> , 2012, 717, 21-27.   | 5.4  | 22        |
| 26 | Nectar and Flower Traits of Different Onion Male Sterile Lines Related to Pollination Efficiency and Seed Yield of F1 Hybrids. <i>Journal of Economic Entomology</i> , 2013, 106, 1386-1394.   | 1.8  | 21        |
| 27 | Vapor generation â€™ atomic spectrometric techniques. Expanding frontiers through specific-species preconcentration. A review. <i>Analytica Chimica Acta</i> , 2015, 875, 7-21.  | 5.4  | 21        |
| 28 | On-line preconcentration and speciation analysis of Se(IV) and Se(VI) using L-methionine immobilised on controlled pore glass. <i>Journal of Analytical Atomic Spectrometry</i> , 2007, 22, 305-309.   | 3.0  | 20        |
| 29 | Ultrasound-assisted pretreatment for multielement determination in maize seed samples by microwave plasma atomic emission spectrometry (MPAES). <i>Microchemical Journal</i> , 2016, 129, 78-82.   | 4.5  | 18        |
| 30 | Multivariate factorial analysis to design a robust batch leaching test to assess the volcanic ash geochemical hazard. <i>Journal of Hazardous Materials</i> , 2012, 213-214, 273-284.  | 12.4 | 15        |
| 31 | On-line solid phase extraction CZE for the simultaneous determination of lanthanum and gadolinium at picogram per liter levels. <i>Electrophoresis</i> , 2009, 30, 2681-2687.  | 2.4  | 14        |
| 32 | Optimization of methods to assess levels of As, Bi, Sb and Se in airborne particulate matter by FI-HG-ICP OES. <i>Journal of Analytical Atomic Spectrometry</i> , 2010, 25, 1343.  | 3.0  | 14        |
| 33 | Ultratrace arsenic determination through hydride trapping on oxidized multiwall carbon nanotubes coupled to electrothermal atomic absorption spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 2013, 28, 916.   | 3.0  | 14        |
| 34 | Determination of thimerosal in pharmaceutical industry effluents and river waters by HPLC coupled to atomic fluorescence spectrometry through post-column UV-assisted vapor generation. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2015, 106, 79-84. | 2.8  | 14        |
| 35 | Determination of seleno-amino acids bound to proteins in extra virgin olive oils. <i>Food Chemistry</i> , 2016, 197, 400-405.  | 8.2  | 14        |
| 36 | Determination of chemical oxygen demand employed manganese as an environmentally friendly oxidizing reagent by a flow injection method based on microwave digestion and speciation coupled to ICP-OES. <i>Microchemical Journal</i> , 2013, 106, 351-356.            | 4.5  | 13        |

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|----|---|-----|-----------|
| 37 | On-line enantioseparation of chlorpheniramine using $\beta$ -cyclodextrin and carbon nanotubes after multivariate optimization. <i>Talanta</i> , 2013, 105, 167-172.  | 5.5 | 12        |
| 38 | Novel method for metalloproteins determination in human breast milk by size exclusion chromatography coupled to inductively coupled plasma mass spectrometry. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2018, 158, 209-213.  | 2.8 | 12        |
| 39 | Selective determination of inorganic selenium species in parenteral solutions using L-methionine as retaining agent in ETAAS. <i>Journal of Analytical Atomic Spectrometry</i> , 2008, 23, 397-401.   | 3.0 | 11        |
| 40 | Method development for Cd and Hg determination in biodiesel by electrothermal atomic absorption spectrometry with emulsion sample introduction. <i>Talanta</i> , 2012, 101, 353-356.  | 5.5 | 11        |
| 41 | On-line solid phase extraction of Cd from protein fractions of serum using oxidized carbon nanotubes coupled to electrothermal atomization atomic absorption spectrometry. <i>Microchemical Journal</i> , 2013, 110, 94-98.   | 4.5 | 11        |
| 42 | Single-step procedure for trace element determination in synovial fluid by dynamic reaction cell-inductively coupled plasma mass spectrometry. <i>Microchemical Journal</i> , 2014, 112, 17-24.   | 4.5 | 11        |
| 43 | Handling spectral interferences and matrix effects in DRC-ICPMS to assess the elemental profile in human serum samples after dissolution with formic acid. <i>Journal of Analytical Atomic Spectrometry</i> , 2013, 28, 1655.   | 3.0 | 9         |
| 44 | Las Cañas plutonic complex: Geodynamic implications during the Famatinian magmatism in northeast of Sierra de San Luis, Argentina. <i>Journal of South American Earth Sciences</i> , 2019, 93, 313-347.   | 1.4 | 9         |
| 45 | Multivariate optimization of a solid phase extraction system employing L-tyrosine immobilized on carbon nanotubes applied to molybdenum analysis by inductively coupled plasma optical emission spectrometry with ultrasound nebulization. <i>Microchemical Journal</i> , 2014, 117, 40-45. | 4.5 | 8         |
| 46 | Single-step solubilization of milk samples with N,N-dimethylformamide for inductively coupled plasma-mass spectrometry analysis and classification based on their elemental composition. <i>Talanta</i> , 2015, 143, 64-70.   | 5.5 | 8         |
| 47 | Endometriosis progression in tumor necrosis factor receptor p55-deficient mice: Impact on oxidative/nitrosative stress and metallomic profile. <i>Journal of Trace Elements in Medicine and Biology</i> , 2019, 52, 157-165.  | 3.0 | 8         |
| 48 | Liquid chromatography coupled to molecular fluorescence with postcolumn UV sensitization for thimerosal and derivative compounds monitoring in environmental samples. <i>Electrophoresis</i> , 2016, 37, 2531-2537.   | 2.4 | 7         |
| 49 | Diuretic activity of aqueous extract and betulin from <i>Colliguaja integerrima</i> in rats. <i>Pharmaceutical Biology</i> , 2009, 47, 274-278.   | 2.9 | 6         |
| 50 | ICPMS analysis of proteins separated by Native-PAGE: Evaluation of metalloprotein profiles in human synovial fluid with acute and chronic arthritis. <i>Journal of Trace Elements in Medicine and Biology</i> , 2016, 36, 44-51.  | 3.0 | 6         |
| 51 | Determination of Pb in airborne particulate matter with a heavy matrix of silicon by SR-ETAAS. <i>Microchemical Journal</i> , 2010, 96, 243-246.  | 4.5 | 5         |
| 52 | Preconcentration, speciation, and determination of key elements in biological samples in Latin America. <i>Analytical and Bioanalytical Chemistry</i> , 2013, 405, 7563-7571.   | 3.7 | 3         |
| 53 | Effect of Topography on Maize Grains Elemental Profile: A Chemometric Approach. <i>Current Analytical Chemistry</i> , 2020, 16, 1079-1087.  | 1.2 | 3         |