

PUBLICATIONS

BOOKS:

MINIATURIZATION OF ANALYTICAL SYSTEMS.

Ángel Ríos, Alberto Escarpa and Bartolomé Simonet.

John Wiley & Sons. Chichester (Gran Bretaña), 2009.

SCREENING DE MUESTRAS BASADOS EN SENSORES PIEZOELÉCTRICOS.

Lisbeth Manganiello, Ángel Ríos y Miguel Valcárcel.

Editorial Académica Española. LAP LAMBERT Academic Publishing GmbH. 2011.

TÉCNICAS ESPECTROSCÓPICAS EN QUÍMICA ANALÍTICA. Volumen 1: Aspectos básicos y espectrometría molecular.

Ángel Ríos, María Cruz Moreno-Bondi y Bartolomé M. Simonet.

Editorial Síntesis. Madrid, 2012.

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Ángel Ríos, María Cruz Moreno-Bondi y Bartolomé M. Simonet.

Editorial Síntesis. Madrid, 2012.

BOOK CHAPTERS:

GREEN SEPARATION TECHNIQUES FOR –OMICS PLATFORMS. ANALYTICAL MICROSYSTEMS, in “Green Foodomics”.

Ángel Ríos and M. Zougagh. Elsevier. To be published in 2020.

SOLID PHASE EXTRACTION BASED ON MAGNETIC NANOPARTICLES, Chapter 9 in “Analytical Microextraction Techniques”.

Ángel Ríos and M. Zougagh. Bentham Science Pub. Ltd., 2016, 273-301.

SCIENTIFIC ARTICLES:

The group has published 74 scientific articles in international journal during the last five years. The tutor investigator is involved in 61 of these articles. They are listed below.

1

β-CYCLODEXTRIN COATED CdSe/ZnS QUANTUM DOTS FOR VANILLIN SENSING IN FOOD SAMPLES.

G.M. Durán, A.M. Contento, A. Ríos.

Talanta, 131 (2015) 286-291.

2

MICROWAVE-ASSISTED SYNTHESIS OF CARBON DOTS AND ITS POTENTIAL AS ANALYSIS OF FOUR HETEROCYCLIC AROMATIC AMINES.

C. López, M. Zougagh, M. Algarra, E. Rodríguez-Castellón, B.B. Campos, J.C.G. Esteves da Silva, J. Jiménez, A. Ríos.

Talanta, 132 (2015) 845-850.

3

A NOVEL APPROACH TO SIZE SEPARATION OF GOLD NANOPARTICLES BY CAPILLARY ELECTROPHORESIS – EVAPORATIVE LIGHT SCATTERING DETECTION.

M. Bouri, R. Salghi, M. Algarra, M. Zougagh, A. Ríos.

RSC Advances, 5 (2015) 16672-16677.

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A CONTINUOUS METHOD INCORPORATING β -CYCLODEXTRIN MODIFIED CdSe/ZnS QUANTUM DOTS FOR DETERMINATION OF ASCORBIC ACID.

G.M. Durán, A.M. Contento, A. Ríos.

Analytical Methods, 7 (2015) 3472-3479.

5

CORROSION INHIBITION OF CARBON STEEL IN AGGRESSIVE ACIDIC MEDIA WITH 1-(2-(4-CHLOROPHENYL)-2-OXOETHYL)PYRIDAZONIUM BROMIDE

A. Bousskri, A. Anejjar, M. Messali, R. Salghi, O. Benali, Y. Karzazi, S. Jodeh, Mohammed Zougagh, Eno.E. Ebenso, B. Hammouti.

Journal of Molecular Liquids 211 (2015) 1000–1008.

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DETERMINATION OF MUTAGENIC AMINES IN WATER AND FOOD SAMPLES BY HIGH PRESSURE LIQUID CHROMATOGRAPHY WITH AMPEROMETRIC DETECTION USING A MULTIWALL CARBON NANOTUBES-GLASSY CARBON ELECTRODE.

A.M. Bueno, M.A. Marín, A.M. Contento, A. Ríos.

Food Chemistry, 192 (2016) 343-350.

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DEVELOPMENT AND CHARACTERIZATION OF CARBON BASED ELECTRODES FROM PYROLYZED PAPER FOR BIOSENSING APPLICATIONS.

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M. Bouri, R. Salghi, M. Zougagh, A. Ríos.
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SOURCES AND FATE OF MERCURY POLLUTION IN ALMADEN MINING DISTRICT (SPAIN): EVIDENCES FROM MERCURY ISOTOPIC COMPOSITION IN SEDIMENTS AND LICHENS.

M. Jiménez-Moreno, J.P.G. Barre, V. Perrot, S. Bérail, R.C. Rodríguez Martín-Doimeadios, D. Amouroux.
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FLUORESCENCE DETERMINATION OF L-CYSTEINE IN WOUND DRESSINGS BY FLUOROSCEIN COATED GOLD NANOPARTICLES.

M. Bouri, R. Salghi, A. Ríos, M. Zougagh.
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HYBRID NANOPARTICLES BASED ON MAGNETIC MULTIWALLED CARBON NANOTUBE-NANOC18SiO2 COMPOSITES FOR SOLID PHASE EXTRACTION OF MYCOTOXINS PRIOR TO THEIR DETERMINATION BY LC-MS.

V. Moreno, M. Zougagh, A. Ríos.
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ANALYSIS OF SILICA NANOPARTICLES BY CAPILLARY ELECTROPHORESIS COUPLED TO AN EVAPORATIVE LIGHT SCATTERING DETECTOR.

C. Adelantado, N. Rodríguez, R.C. Rodríguez, M. Zougagh, A. Ríos.
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M.J. Patiño Ropero, N. Rodríguez Fariñas, R. Mateo, J.J. Berzas Nevado, R.C. Rodríguez Martín-Doimeadios.

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DECORATION OF MULTI-WALLED CARBON NANOTUBES WITH METAL NANOPARTICLES IN SUPERCRITICAL CARBON DIOXIDE MEDIUM AS A NOVEL APPROACH FOR THE MODIFICATION OF SCREEN-PRINTED ELECTRODES.

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RECENT ADVANCES IN MAGNETIC NANOMATERIALS FOR IMPROVING ANALYTICAL PROCESSES.

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METHODOLOGY FOR MONITORING GOLD NANOPARTICLES AND DISSOLVED GOLD SPECIES IN CULTURE MEDIUM AND CELLS USED FOR NANOTOXICITY TESTS BY LIQUID CHROMATOGRAPHY HYPHENATED TO INDUCTIVELY COUPLED PLASMA-MASS SPECTROMETRY.

S. López-Sanz, N. Rodríguez-Fariñas, R. Serrano, R.C. Rodríguez Martín-Doimeadios, A. Ríos.

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GENO- AND CYTOTOXICITY INDUCED ON CYPRINUS CARPIO BY ALUMINIUM, IRON, MERCURY AND MIXTURE THEREOF.

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Y. Benmassaoud, M.J. Villaseñor, R. Salghi, S. Jodeh, M. Algarra, M. Zougagh, A. Ríos.
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A. Elizalde-Velazquez, H. Martínez-Rodríguez, M. Galar-Martínez, O. Dublan-García, H. Islas-Flores, J. Rodríguez-Flores, G. Castañeda-Peñalvo, I. Lizcano-Sanz, L. Manuel Gomez-Olivian.
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DISCRIMINATION OF PENICILLAMINE ENANTIOMERS USING β -CYCLODEXTRIN MODIFIED CdSe/ZnS QUANTUM DOTS.

G.M. Durán, C. Abellán, A.M. Contento, A. Ríos.
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K. Azzaoui, E. Mejdoubi, A. Lamhamdi, S. Jodeh, O. Hamed, M. Berrabah, S. Jerdioui, R. Salghi, N. Akartasse, A. Errich, A. Ríos, M. Zougagh.
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INNOVATIVE COUPLING OF SUPERCRITICAL FLUID EXTRACTION WITH ION MOBILITY SPECTROMETRY.

N. Jurado, A. Carpioa, M. Zougagh, L. Arce, N. Arroyo.
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SELECTIVE SCREENING OF GLUTARIC ACID ACIDURIAS BY CAPILLARY ELECTROPHORESIS-MASS SPECTROMETRY.

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A.I. Corps, F.J. Guzmán, M. Zougagh, R.C. Rodríguez, A. Ríos.
Analytical and Bioanalytical Chemistry, 409 (2017) 5125-5132.

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ANALYSIS OF PENICILLAMINE USING Cu-MODIFIED GRAPHENE QUANTUM DOTS SYNTHESIZED FROM URIC ACID AS SINGLE PRECURSOR.

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DISPERSED SYNTHESIS OF UNIFORM Fe₃O₄ MAGNETIC NANOPARTICLES VIA IN SITU DECOMPOSITION OF IRON PRECURSOR ALONG COTTON FIBRE FOR SUDAN DYES ANALYSIS IN FOOD SAMPLES.

Y. Bentahir, S. Elmarhoum, R. Salghi, M. Algarra, A. Ríos, M. Zougagh.
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NANOMATERIALS FOR WATER CLEANING AND DESALINATION, ENERGY PRODUCTION, DESINFECTATION, AGRICULTURE AND GREEN CHEMISTRY.

M.J. Villaseñor, A. Ríos.
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M.L. Soriano, M. Zougagh, M. Valcárcel, A. Ríos.
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A.I. Corps, A. Sánchez-Cachero, M. Jiménez-Moreno, F.J. Guzmán, R.C. Rodríguez, Á. Ríos.
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F. Abujaber, M. Zougagh, S. Jodeh, A. Ríos, F.J. Guzman, R.C. Rodríguez.
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DIRECT DETERMINATION OF GRAPHENE QUANTUM DOTS BASED ON TERBIUM-SENSITIZED LUMINESCENCE.

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K. Murtada, S. Jodeh, M. Zougagh, A. Ríos.
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S. Lahouidak, R. Salghi, M. Zougagh, A. Ríos.
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DETERMINATION OF ANTIDEPRESSANTS IN HUMAN URINE EXTRACTED BY MAGNETIC MULTIWALLED CARBON NANOTUBE POLY(STYRENE-CO-DIVINYLBENZENE) COMPOSITES AND SEPARATION BY CAPILLARY ELECTROPHORESIS.

K. Murtada, F. de Andrés, A. Ríos, M. Zougagh.
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A SIMPLE POLY(STYRENE-CO-DIVINYLBENZENE)-COATED GLASS BLOOD SPOT METHOD FOR MONITORING OF SEVEN ANTIDEPRESSANTS USING CAPILLARY LIQUID CHROMATOGRAPHY – MASS SPECTROMETRY.

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MAGNETIC MULTI-WALLED CARBON NANOTUBES AS A VALUABLE OPTION FOR THE PRECONCENTRATION OF NON-STEROIDAL ANTI-INFLAMMATORY DRUGS IN WATER.

F. Abujaber, L. Avendaño, S. Jodeh, A. Ríos, F.J. Guzmán, R.C. Rodríguez.

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Ismael Galván, Francisco Solano, Mohammed Zougagh, Fernando de Andrés, Khaled Murtada, Ángel Ríos, Eva de la Peña, Juan Carranza.

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UNIQUE EVOLUTION OF VITAMIN A AS AN EXTERNAL PIGMENT IN TROPICAL STARLINGS.

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V. Corrales, C. Nieto, J:A. Castro, F. de Andrés, P.J. Pacheco, I. Bravo, N. Rodríguez, E. Niza, E. Dominguez, A. Lara, A. Ríos, M. Gómez, J.C. Montero, A. Pandiella, A. Shafir, C. Alonso, A. Ocaña.
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