

Química Analítica

Áreas de conocimiento: Química Analítica

Director: Dña. Ana María García Campaña

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Profesorado: CU: 7, PTU: 20, PDI Contratado y Otros: 27.

Tesis leídas

- COMPORTAMIENTO Y EVOLUCIÓN QUÍMICA DE FÁRMACOS Y PRODUCTOS DE CUIDADO PERSONAL EN COMPOST PROCEDENTE DE LODO EDAR Y EN SUELO AGRÍCOLA ENMENDADO

Doctorando: Antonio Luque Muñoz

Director: Dr. Alberto Zafra Gómez y Dr. José Luis Vílchez Quero

Fecha de lectura: 19-09-2017

- EVALUACIÓN DE LA INCORPORACIÓN EN LA DIETA ANIMAL (INGESTA Y METABOLIZACIÓN) DEL PROPILPROPANO TIOSULFONATO COMO ADITIVO NATURAL DERIVADO DE ALIÁCEAS

Doctorando: Paloma Abad Campos

Director: Dra. Natalia Arroyo Manzanares y Dra. Ana M^a García Campaña

Fecha de lectura: 19-12-2017

- APLICACIONES ANALÍTICAS DE LAS "HUELLAS DACTILARES" CROMATOGRÁFICAS EN CIENCIAS DE LOS ALIMENTOS Y DE LA SALUD

Doctorando: Lucía Valverde Som

Director: Dr. Luis Cuadros Rodríguez y Dra. Cristina Ruiz Samblás

Fecha de lectura: 11-01-2018

- CARACTERIZACIÓN, PURIFICACIÓN Y EVALUACIÓN DE LA BIOACTIVIDAD DE FITOQUÍMICOS OBTENIDOS DE FUENTES NATURALES

Doctorando: María de la Luz Cádiz Gurrea

Director: Dr. Salvador Fernández Arroyo y Dr. Antonio Segura Carretero

Fecha de lectura: 23-03-2018

Grupos de Investigación.

FQM232 ANALISIS EN ALIMENTACION Y MEDIOAMBIENTE

- Responsable: MARIA GRACIA BAGUR GONZÁLEZ

AGR274 Bioactive Ingredients

- Responsable: ANTONIO SEGURA CARRETERO

FQM302 CALIDAD EN QUIMICA ANALITICA ALIMENTARIA, AMBIENTAL Y CLÍNICA (CQAC3)

- Responsable: ANA MARIA GARCIA CAMPAÑA

FQM297 CONTROL ANALÍTICO AMBIENTAL, BIOQUÍMICO Y ALIMENTARIO

- Responsable: ALBERTO FERNANDEZ GUTIERREZ

FQM118 ESPECTROMETRÍA EN FÁSE SÓLIDA

- Responsable: LUIS FERMÍN CAPITÁN VALLVEY

FQM338 QUIMICA ANALITICA Y CIENCIAS DE LA VIDA

- Responsable: ALBERTO NAVALÓN MONTÓN

Dirección y participación en Proyectos I+D

- 2017 Plataformas analíticas y microrreactores para seguridad agroalimentaria y sostenibilidad medioambiental, , 01/01/2017-31/12/2019

Investigador/a ISABEL MARIA PEREZ DE VARGAS SANSALVADOR

Investigador/a ALFONSO SALINAS CASTILLO

Investigador/a MARÍA DOLORES FERNÁNDEZ RAMOS

Investigador/a IGNACIO DE ORBE PAYÁ

Responsable LUIS FERMÍN CAPITÁN VALLVEY

- 2017 Carga obesogénica total efectiva: nuevo biomarcador de efecto combinado a "obesógenos" como factor de riesgo en obesidad., , 01/01/2017-31/12/2019

Investigador/a INMACULADA JIMENEZ DIAZ

- 2017 Exposición del recién nacido de muy bajo peso a disruptores endocrinos (DEs) en la Unidad de Cuidados Neonatales (UCIN) y evaluación de las consecuencias sobre el desarrollo., , 01/01/2017-31/12/2019

Investigador/a FERNANDO VELA SORIA

Investigador/a INMACULADA JIMENEZ DIAZ

- 2017 Comprehensive evaluation of functional foods applying effect-directed analysis and planar chromatography-bioassays-mass spectrometry, , 01/04/2017-31/03/2021

Investigador/a DAVID ARRAEZ ROMAN

- 2017 Desarrollo de Un Procedimiento para la Minimización de la Presencia de Fármacos Antineoplásicos de

- Origen Hospitalario., , 02/01/2017-31/12/2019
Investigador INMACULADA JIMENEZ DIAZ
- 2017 Unidad de Química Multidisciplinar, Competitivo, 01/01/2017-31/12/2020
Responsable LUIS FERMÍN CAPITÁN VALLVEY
- 2017 MultiSens - A revolutionary quality indicator platform for the food industry, Competitivo, 01/02/2017-31/01/2019
Responsable ISABEL MARIA PEREZ DE VARGAS SANSALVADOR
Investigador/a LUIS FERMÍN CAPITÁN VALLVEY
- 2017 Multisens, , 01/02/2017-
Investigador LUIS FERMÍN CAPITÁN VALLVEY

Contratos de investigación

- 2017 Contrato de investigación "ESPECTROMETRIA EN FASE SOLIDA" FQM-118, Contrato art. 11/45 LRU - 68/83 LOU, 01/02/2017-31/05/2017
Responsable LUIS FERMÍN CAPITÁN VALLVEY
Investigador/a MIGUEL MARÍA ERENAS RODRÍGUEZ
- 2017 Desarrollo y puesta a punto de nuevas metodologías analíticas para la búsqueda de ingredientes bioactivos, instrumentación y calidad, Contrato art. 11/45 LRU - 68/83 LOU, 01/03/2017-31/12/2017
Responsable DAVID ARRAEZ ROMAN

Publicaciones en revistas

- 2018 Artículo: LIQUID CHROMATOGRAPHY-ELECTROCHEMICAL DETECTION FOR THE DETERMINATION OF ETHOXYQUIN AND ITS DIMER IN PEAR SKIN AND SALMON SAMPLES, Talanta, 177, , 157-162
ALBERTO ZAFRA GÓMEZ
ROCÍO RODRÍGUEZ GÓMEZ
- 2018 Artículo: DETERMINATION OF BISPHENOLS WITH ESTROGENIC ACTIVITY IN PLASTIC PACKAGED BABY FOOD SAMPLES USING SOLID-LIQUID EXTRACTION AND CLEAN-UP WITH DISPERSIVE SORBENTS FOLLOWED BY GAS CHROMATOGRAPHY TANDEM MASS SPECTROMETRY ANALYSIS, Talanta, 178, , 441-448
ALBERTO ZAFRA GÓMEZ
JOSE LUIS VÍLCHEZ QUERO
MARIA TERESA GARCIA CORCOLES
ROCÍO RODRÍGUEZ GÓMEZ
- 2018 Artículo: Asymmetric enhanced surface interdigitated electrode capacitor with two out-of-plane electrodes, Sensors and Actuators B: Chemical, 254, , 588-596
LUIS FERMÍN CAPITÁN VALLVEY
- 2018 Artículo en prensa: ELECTROCHEMICAL STUDIES OF ETHOXYQUIN AND ITS DETERMINATION IN SALMON SAMPLES BY FLOW INJECTION ANALYSIS WITH AN AMPEROMETRIC DUAL DETECTOR, Electroanalysis, , , -
ALBERTO ZAFRA GÓMEZ
ROCÍO RODRÍGUEZ GÓMEZ
- 2018 Artículo: Slow relaxation of magnetization and luminescence properties of a novel dysprosium and pyrene-1,3,6,8-tetrakisulfonate based MOF, New Journal of Chemistry, 42, , 832-837
ALFONSO SALINAS CASTILLO
- 2018 Artículo: Microfluidic paper-based device for colorimetric determination of glucose based on a metal-organic framework acting as peroxidase mimetic, Microchimica Acta, 185, , 47-54
ALFONSO SALINAS CASTILLO
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INMACULADA ORTIZ GÓMEZ
LUIS FERMÍN CAPITÁN VALLVEY
- 2018 Artículo: DETERMINATION OF RESIDUAL LACTOSE IN LACTOSE-FREE COW MILK BY HYDROPHILIC INTERACTION LIQUID CHROMATOGRAPHY (HILIC) COUPLED TO TANDEM MASS SPECTROMETRY, Journal of food composition and analysis, 66, , 39-45
ALBERTO ZAFRA GÓMEZ
- 2018 Artículo en prensa: DETERMINATION OF QUINOLONE RESIDUES IN RAW COW MILK. APPLICATION OF POLAR STIR-BARS AND ULTRA-HIGH PERFORMANCE LIQUID CHROMATOGRAPHY-TANDEM MASS SPECTROMETRY, Food Additives & Contaminants. Part A. Chemistry, Analysis, Control, Exposure & Risk Assessment, , , -
ALBERTO NAVALÓN MONTÓN
ROCÍO RODRÍGUEZ GÓMEZ
- 2018 Artículo en prensa: DETERMINATION OF QUINOLONE RESIDUES IN RAW COW MILK. APPLICATION OF POLAR STIR-BARS AND ULTRA-HIGH PERFORMANCE LIQUID CHROMATOGRAPHY-TANDEM MASS SPECTROMETRY, Food Additives & Contaminants. Part A. Chemistry, Analysis, Control, Exposure & Risk

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MARIA TERESA GARCIA CORCOLES

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- 2018 Artículo: Non-invasive oxygen determination in intelligent packaging using a Smartphone, IEEE Sensors Journal, 18, 11, 4351-4357

ISABEL MARIA PEREZ DE VARGAS SANSALVADOR

MIGUEL MARÍA ERENAS RODRÍGUEZ

- 2018 Artículo: Effects of a combined intervention with a lentil protein hydrolysate and a mixed training protocol on the lipid metabolism and hepatic markers of NAFLD in Zucker rats, Food and Function, 9, , 830-850

ANTONIO SAMUEL CANTARERO MALAGON

- 2017 Artículo: Real-time optimal combination of multifrequency information in phase-resolved luminescence spectroscopy based on rectangular-wave signals, Sensors and Actuators B: Chemical, 238, , 221-225

JORGE FERNANDO FERNANDEZ SANCHEZ

- 2017 Artículo: BIOMONITORING OF 21 ENDOCRINE DISRUPTING CHEMICALS IN HUMAN HAIR SAMPLES

USING ULTRA-HIGH PERFORMANCE LIQUID CHROMATOGRAPHY¿TANDEM MASS SPECTROMETRY,

Chemosphere. Global change science, 168, , 676-684

ALBERTO NAVALÓN MONTÓN

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- 2017 Artículo: Environment and genotype effects on antioxidant properties of organically-grown wheat

varieties. A three year study, Journal of the Science of Food and Agriculture, , , -

ANTONIO SEGURA CARRETERO

- 2017 Artículo: Macro and micro functional components of a spreadable olive by-product (pâté) generated by new concept of two-phase decanter, European Journal Of Lipid Science And Technology, 119, , 1-9

ANTONIO SEGURA CARRETERO

JESÚS LOZANO SÁNCHEZ

- 2017 Artículo: SORPTION, DEGRADATION AND TRANSPORT PHENOMENA OF ALCOHOL ETHOXSULFATES

IN AGRICULTURAL SOILS. LABORATORY STUDIES, Chemosphere, 171, , 661-670

ALBERTO ZAFRA GÓMEZ

JOSE LUIS VÍLCHEZ QUERO

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- 2017 Artículo: AN IMPROVED AND NOVEL METHOD FOR THE DETERMINATION OF GLYCIDOL AND 3-

MONOCHLOROPROPANEDIOL ESTERS IN FISH OIL BY GAS CHROMATOGRAPHY TANDEM MASS

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ALBERTO ZAFRA GÓMEZ

- 2017 Artículo: Flexible passive NFC tag for multi-gas sensing, Analytical Chemistry, , , -

LUIS FERMÍN CAPITÁN VALLVEY

- 2017 Artículo: Flexible Passive near Field Communication Tag for Multigas Sensing, Analytical Chemistry, 89, , 1697-1703

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- 2017 Artículo: Water based-ionic liquid carbon dioxide sensor for applications in the food industry (En revisión, ID:SNB-D-16-05096), Sensors and Actuators B: Chemical, , , -

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MIGUEL MARÍA ERENAS RODRÍGUEZ

- 2017 Artículo: Capillary electrophoresis-tandem mass spectrometry combined with molecularly imprinted solid phase extraction as useful tool for the monitoring of 5-nitroimidazoles and their metabolites in urine

samples, Talanta, 163, , 111-120

ANA MARIA GARCIA CAMPAÑA

MARIA CARMEN CRUCES BLANCO

- 2017 Artículo: One-input and two-input class classifications for differentiating olive oil from other edible vegetable oils by use of the normal-phase liquid chromatography fingerprint of the methyl-transesterified

fraction, Food Chemistry, 221, , 1784-1791

ANTONIO GONZALEZ CASADO

LUIS CUADROS RODRÍGUEZ

- 2017 Artículo: Fast-HPLC fingerprinting to discriminate olive oil from other edible vegetable oils by multivariate classification methods, Journal of AOAC International, 100, , 1-6

ANTONIO GONZALEZ CASADO

LUIS CUADROS RODRÍGUEZ

- 2017 Artículo: A new method for quantification of olive and palm oil in blends with other vegetable edible oils based on the chromatographic fingerprints from the methyl-transesterified fraction, *Talanta*, 164, , 540-547

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LUIS CUADROS RODRÍGUEZ

- 2017 Artículo: Use of onion extract as dairy cattle feed supplement: monitoring of propyl propane thiosulfonate as marker of its effect on milk attributes, *Journal of Agricultural and Food Chemistry*, , , -

ANA MARIA GARCIA CAMPAÑA

- 2017 Artículo: Salting-out assisted liquid-liquid extraction coupled to ultra-high performance liquid chromatography tandem mass spectrometry for the determination of tetracycline residues in infant foods, *Food Chemistry*, 221, , 1763-1769

ANA MARIA GARCIA CAMPAÑA

- 2017 Artículo: Determination of Aflatoxins in Yogurt by Dispersive Liquid-Liquid Microextraction and HPLC with Photo-Induced Fluorescence Detection, *Food Analytical Methods*, 10, , 516-521

AHMED M. HAMED MAHMOUD

ANA MARIA GARCIA CAMPAÑA

LAURA GÁMIZ GRACIA

- 2017 Artículo: QuEChERS-based method for the determination of carbamate residues in aromatic herbs by UHPLC-MS/MS., *Food Chemistry*, 216, , 334-341

ANA MARIA GARCIA CAMPAÑA

LAURA GÁMIZ GRACIA

- 2017 Artículo: Characterization of Carbamate Pesticides in Natural Water from Cameroon, *Analytical Letters*, 50, , 1397-1409

ANA MARIA GARCIA CAMPAÑA

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- 2017 Artículo: High-Throughput Methodology for the Determination of Carbamates in Food Supplements by UHPLC-MS/MS, *CHROMATOGRAPHIA*, 80, , 63-70

ANA MARIA GARCIA CAMPAÑA

LAURA GÁMIZ GRACIA

- 2017 Artículo: Evaluation of a new modified QuEChERS method for the monitoring of carbamate residues in high-fat cheeses by using UHPLC MS/MS., *Journal of Separation Science*, 40, , 488-496

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- 2017 Artículo: MULTI-RESIDUE ANALYSIS OF 36 PRIORITY AND EMERGING POLLUTANTS IN MARINE ECHINODERMS (HOLOTHURIA TUBULOSA) AND MARINE SEDIMENTS BY SOLID-LIQUID EXTRACTION FOLLOWED BY DISPERSIVE SOLID PHASE EXTRACTION AND LIQUID CHROMATOGRAPHY-TANDEM MASS SPECTROMETRY ANAL, *Talanta*, 166, , 336-348

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JOSE LUIS VÍLCHEZ QUERO

- 2017 Artículo: SEASONAL VARIATIONS IN THE BEHAVIOR OF ALCOHOL SULFATES IN AGRICULTURAL SOILS. A FIELD STUDY, *Water, Air, and Soil Pollution*, 2228, 104, 1-13

ALBERTO NAVALÓN MONTÓN

ALBERTO ZAFRA GÓMEZ

JOSE LUIS VÍLCHEZ QUERO

MARIA CAROLINA FERNANDEZ RAMOS

OSCAR BALLESTEROS GARCÍA

- 2017 Artículo: Evaluation of direct analysis in real time for the determination of highly polar pesticides in lettuce and celery using modified Quick Polar Pesticides Extraction method, *Journal of Chromatography A*, 1496, , 37-44

FRANCISCO JESÚS LARA VARGAS

- 2017 Review: Recent advances in phospholipids from colostrum, milk and dairy by-products, *International Journal of Molecular Sciences*, 18, , 173-196

ANA MARÍA GÓMEZ CARAVACA

DAVID ARRAEZ ROMAN

- 2017 Artículo: UHPLC/MS2-Based Approach for The Comprehensive Metabolite Profiling of Bean (*Vicia Faba L.*) By-Products: A Promising Source of Bioactive Constituents, *Food Research International*, 93, , 87-96

ALBERTO FERNANDEZ GUTIERREZ

ANTONIO SEGURA CARRETERO

DAVID ARRAEZ ROMAN

- 2017 Artículo: Evaluation of the intestinal permeability of rosemary (*Rosmarinus officinalis L.*) extract polyphenols and terpenoids in Caco-2 cell monolayers, *PLoS One*, 12, , 1-18

ANTONIO SEGURA CARRETERO

DAVID ARRAEZ ROMAN

- 2017 Artículo: Rosemary phenolic compounds as potential source of bioactive compounds against colorectal cancer: in-situ absorption and metabolism study, *Journal of Functional Foods*, 33, , 202-210

ÁLVARO FERNÁNDEZ OCHOA

ANTONIO SEGURA CARRETERO

DAVID ARRAEZ ROMAN

- 2017 Artículo: AMPK modulatory activity of olive±tree leaves phenolic compounds: Bioassay-guided isolation on adipocyte model and in silico approach, *PLoS One*, 12, 3, 1-22

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ANTONIO SEGURA CARRETERO

CELIA RODRIGUEZ PEREZ

JESÚS LOZANO SÁNCHEZ

- 2017 Artículo: Olive oil enrichment in phenolic compounds during malaxation in the presence of olive leaves or olive mill wastewater extracts, *European Journal Of Lipid Science And Technology*, , , -

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CELIA RODRIGUEZ PEREZ

- 2017 Artículo: A microfluidic device with integrated coaxial nanofibre membranes for optical determination of glucose, *Sensors and Actuators B: Chemical*, 250, , 156-161

ALBERTO FERNANDEZ GUTIERREZ

JORGE FERNANDO FERNANDEZ SANCHEZ

M^a TERESA RAMÓN MÁRQUEZ

- 2017 Artículo: HPLC-UV and HPLC-CAD chromatographic data fusion for the authentication of the geographical origin of palm oil, *Talanta*, 170, , 413-418

LUIS CUADROS RODRÍGUEZ

- 2017 Artículo: Psidium guajava L. leaves as source of proanthocyanidins: a study of the degree of polymerization in different guava leaves by NP-HPLC-FLD-ESI-MS, *Journal of Pharmaceutical and Biomedical Analysis*, 133, , 1-7

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ANTONIO SEGURA CARRETERO

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- 2017 Artículo: The hypoglycemic effects of guava leaf (*Psidium guajava* L.) extract are associated with improving endothelial dysfunction in mice with diet-induced obesity, *Food Research International*, , , -

ANTONIO SEGURA CARRETERO

- 2017 Artículo: Extraction of natural flavorings with antioxidant capacity from cooperage by-products by green procedure with subcritical fluids, *Industrial Crops and Products*, 103, , 222-232

MARÍA ELENA ALAÑÓN PARDO

- 2017 Artículo: Principal Component Analysis to interpret changes in chromatic parameters on paint dosimeters exposed long-term to urban air, *Chemometrics and Intelligent Laboratory Systems*, , , -

NATALIA NAVAS IGLESIAS

- 2017 Artículo: Assessment of parabens and ultraviolet filters in human placenta tissue by ultrasound-assisted extraction and ultra-high performance liquid chromatography-tandem mass spectrometry., *Journal of Chromatography A*, 1487, , 153-161

ALBERTO NAVALÓN MONTÓN

FERNANDO VELA SORIA

OSCAR BALLESTEROS GARCÍA

- 2017 Artículo: Protective effect of *Globularia alypum* leaves against deltamethrin-induced nephrotoxicity in rats and determination of its bioactive compounds using high-performance liquid chromatography coupled with electrospray ionization tandem quadrupole-time-of-flight, *Journal of Functional Foods*, 32, , 139-148

ANA MARÍA GÓMEZ CARAVACA

ANTONIO SEGURA CARRETERO

NASSIMA TALHAOU

- 2017 Artículo en prensa: Metabolic fingerprinting of must obtained from sun-dried grapes of two indigenous Cypriot cultivars destined for the production of 'Commandaria'; a protected designated of origin product, *Food Research International*, , , -

ANA MARÍA GÓMEZ CARAVACA

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- 2017 Artículo: Correlation between the cellular metabolism of quercetin and its glucuronide metabolite and oxidative stress in hypertrophied 3T3-L1 adipocytes, *Phytomedicine*, 25, , 25-28

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- 2017 Artículo: Cocoa and grape seed byproducts as a source of antioxidant and anti-inflammatory proanthocyanidins, *International Journal of Molecular Sciences*, 18, , -376

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- 2017 Review: Recent Advances in Phospholipids from Colostrum, Milk and Dairy By-Products, *International Journal of Molecular Sciences*, 18, , 173-

ANA MARÍA GÓMEZ CARAVACA

- 2017 Artículo: Determination of benzimidazoles in meat samples by capillary zone electrophoresis tandem mass spectrometry following dispersive liquid-liquid microextraction, *Journal of Chromatography A*, 1490, , 212-219

ANA MARIA GARCIA CAMPAÑA

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MARIA MONSALUD DEL OLMO IRUELA

- 2017 Artículo: Evaluation of hydrophilic interaction liquid chromatography-tandem mass spectrometry and extraction with molecularly imprinted polymers for determination of aminoglycosides in milk and milk-based functional foods, *Talanta*, 171, , 74-80

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- 2017 Artículo: Metabolic profiling approach to determine phenolic compounds of virgin olive oil by direct injection, *Food Chemistry*, 231, , 374-385

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- 2017 Artículo: Evaluation of a Selective Approach for the Determination of 5-Nitroimidazoles in Aquaculture Products by Capillary Liquid Chromatography Using Molecularly Imprinted Solid-Phase Extraction, *Food Analytical Methods*, , , -

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MARIA GRACIA BAGUR GONZÁLEZ

- 2017 Artículo en prensa: RP-HPLC-DAD-ESI-TOF-MS based strategy for new insights into the qualitative and quantitative phenolic profile in Tunisian industrial Citrus Limon by-product and their antioxidant activity, *European Food Research and Technology*, , , -

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- 2017 Artículo: Pigment-size effect on the physico-chemical behavior of azuritetempera dosimeters upon natural and accelerated photo aging, *Dyes And Pigments (Print)*, 141, , 53-65

NATALIA NAVAS IGLESIAS

- 2017 Artículo: MULTICLASS METHOD FOR THE DETERMINATION OF PHARMACEUTICALS AND PERSONAL CARE PRODUCTS IN COMPOST FROM SEWAGE SLUDGE USING ULTRASOUND AND SALT-ASSISTED LIQUID-LIQUID EXTRACTION FOLLOWED BY ULTRAHIGH PERFORMANCE LIQUID CHROMATOGRAPHY-TANDEM MASS SPECTROMETRY, *Journal of Chromatography A*, 1507, , 72-83

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- ALBERTO FERNANDEZ GUTIERREZ
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ANTONIO SEGURA CARRETERO
- 2017 Artículo: NON DESTRUCTIVE PIGMENT CHARACTERIZATION IN THE PAINTING LITTLE MADONNA OF FOLIGNO BY X-RAY POWDER DIFFRACTION, *Microchemical Journal*, 124, , 343-353
- ALBERTO ZAFRA GÓMEZ
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- 2017 Artículo: Development of a New Microextraction Fiber Combined to On-Line Sample Stacking Capillary Electrophoresis UV Detection for Acidic Drugs Determination in Real Water Samples, *International Journal of Environmental Research and Public Health*, 14, 739, , 1-16
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- 2017 Artículo: The Combined Intervention with Germinated *Vigna radiata* and Aerobic Interval Training Protocol Is an Effective Strategy for the Treatment of Non-Alcoholic Fatty Liver Disease (NAFLD) and Other Alterations Related to the Metabolic Syndrome in Zucker Rats, *Nutrients*, 9, , 774-796
- ANTONIO SAMUEL CANTARERO MALAGON
- 2017 Artículo: Immunomodulatory properties of *Olea europaea* leaf extract in intestinal inflammation., *Molecular Nutrition and Food Research*, , , -
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