



Profolio of Researchers and Research Teams

NEW SYNTHETIC METHODOLOGIES

(Last update 14/11/2011)

Code: GI-1599

Department: Química Orgánica

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Research field

- Synthesis of biologically active compounds
- Synthesis of compounds with food and agricultural interest
- Isolation, structural elucidation and synthesis of natural products
- Development of new eco-friendly synthetic methodologies.
- Microwave Assisted Organic Synthesis (MAOS)

Technology services

- Design and synthesis of organic compounds
- Structural elucidation of organic compounds
- Molecular modeling
- Microwave Assisted Organic Synthesis

Key words

Synthesis; natural products; structural elucidation; agricultural and food compounds; compounds with biological activity; microwaves, green chemistry.

Researchers

Name

Seijas Vázquez,J.A.
Feás Sánchez,X.
Vázquez Tato,M.d.

Position

Coordinator
Member
Member

External collaborators

M. Fe Tellado Castro
Mª Beatriz Vázquez Santos
Mª Raquel Carballido Reboredo
Alberto Mena Menéndez
María Ángela Gómez Doval

IES Mondoñedo
CSIC
Xunta de Galicia
IES las Mercedes
IES-SanXillao

RTD PROJECTS (period: 2007 - 2011)

Title:

Síntese de novos materiais dendrimericos baseados en S-triacina con aplicacóns biolóxicas e nanotecnoloxicas

Tipology:

Proxectos Xunta

Duration: 13/07/2009 - 01/12/2012

Main investigator: Seijas Vázquez, Julio Antonio

Patents

Application: P200002113

Application date: 22/08/2000

Title:

Procedimiento de preparación de talidomida mediante irradiación en horno microondas.

Inventors: - González Bande, Cristóbal
- Seijas Vázquez, Julio Antonio
- Vázquez Tato, María del Pilar

SCIENTIFIC PRODUCTION (period: 2006 - 2010)

Articles in the Journal Citation Reports

Article:

Lawesson's Reagent and Microwaves: a New Efficient Access to Benzoxazoles and Benzothiazoles from Carboxylic Acids in Solvent-free Conditions

Journal: SYNLETT, ISSN: 0936-5214
2007

Article:

Microwaves: a new tool for an ancient element. Solvent and support-free Microwave-assisted organic synthesis

Journal: CHIMICA OGGI-CHEMISTRY TODAY, ISSN: 0392-839X
2007

Article:

Microwave Assisted Solvent-Free Synthesis of Enol Carbamates

Journal: SYNLETT, ISSN: 0936-5214
2007

Article:

Substituted Pyrazolo[3.4-d]pyrimidines: Microwave Assisted, Solvent Free Synthesis and Biological Evaluation

Journal: HELVETICA CHIMICA ACTA, ISSN: 0018-019X
2008

Article:

Microwaves: a new tool for an ancient element. Solvent and support-free Microwave-assisted organic synthesis.

Journal: CHIMICA OGGI-CHEMISTRY TODAY, ISSN: 0392-839X
2008

Article:

Straightforward microwave-assisted synthesis of 2-thiazolines using Lawesson's reagent under solvent-free conditions.

Journal: TETRAHEDRON, ISSN: 0040-4020
2008

Article:

Syntheses of molecularly imprinted polymers: Molecular recognition of cyproheptadine using original print molecules and azatadine as dummy templates

Journal: ANALYTICA CHIMICA ACTA, ISSN: 0003-2670
2009

Article:

Direct syntheses of 4-aryl-1,2,3,4-tetrahydroisoquinolines and 1-aryl-2,3,4,5-tetrahydro-3-benzoazepines via hydroamination of enol carbamates

Journal: TETRAHEDRON, ISSN: 0040-4020
2009

Article:

NMR analysis of a series of substituted pyrazolo[3,4-d]pyrimidines-4-amines

Journal: MAGNETIC RESONANCE IN CHEMISTRY, ISSN: 0749-1581
2009

Article:

Palynological and physicochemical data characterisation of honeys produced in the Entre-Douro e Minho region of Portugal.

Journal: INTERNATIONAL JOURNAL OF FOOD SCIENCE AND TECHNOLOGY, ISSN: 0950-5423
2010

Article:

Characterization of artisanal honey produced on the Northwest of Portugal by melissopalynological and physico-chemical data

Journal: INTERNATIONAL JOURNAL OF FOOD SCIENCE AND TECHNOLOGY, ISSN: 0950-5423

2010

Article:

One-pot solvent-free synthesis of 4-arylcoumarins from 2-hydroxybenzophenones promoted by microwaves

Journal: EUROPEAN JOURNAL OF ORGANIC CHEMISTRY, ISSN: 1434-193X
2010

Article:

Efficient synthesis of heterophosphole-2-sulfides by solvent-free microwave reaction

Journal: TETRAHEDRON, ISSN: 0040-4020
2010

Doctoral theses:

Title:

Síntesis asistida por microondas de compuestos de interés biológico e industrial: haloarenos, fulvenos, tricloropirrolidonas, azoles y flavonoides. Modelado de espectros de absorción electrónica de flavonoides.

Date of dissertation: 28/03/2008

Director: Julio Antonio Seijas Vázquez, María del Pilar Vázquez Tato
Author: Mª Raquel Carballido Reboredo

Title:

Síntese orgánica asistida por microondas. Obtención de enol carbamatos, tetrahidroisoquinolinas, benzoazepinas, tiazolinas, sulfuros de fosfoles, isoflavonas, arilcumarinas, cumarinocumarinas e núcleos de dendrímeros. Aplicaciones.

Date of dissertation: 28/07/2009

Director: Julio Antonio Seijas Vázquez, María del Pilar Vázquez Tato
Author: José Creciente Campo
