

Fecha	Abril 2019
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Parte A. DATOS PERSONALES

Nombre y apellidos	ENCARNACIÓN JURADO ALAMEDA		
Núm. identificación del investigador	Researcher ID	14028497800	
	Código ORCID	0000-0001-7074-8418	

Si no tiene Researcher ID o código ORCID, no rellene estos apartados.

A.1. Situación profesional actual

Organismo	UNIVERSIDAD DE GRANADA		
Dpto./Centro	INGENIERÍA QUÍMICA		
Dirección	AVDA FUENTE NUEVA S/N, FACULTAD DE CIENCIAS		
Categoría profesional	CATEDRÁTICA DE UNIVERSIDAD	Desde	1996
Espec. cód. UNESCO	3303, 3302, 3308, 3309		
Palabras clave	SURFACTANTS ,FORMULATION OF DETERGENTS, OZONE, ENZYMATIC TECHNOLOGY, ENZYMATIC HYDROLYSIS OF BIOPOLIMERS,BIODEGRADATION AND TOXICITY OF TENSIOACTIVES, EMULSIONS, BIOSURFACTANTS		

A.2. Formación académica (título, institución, fecha)

Título	Universidad	Año
Degree In Chemicals	Universidad de Granada	1975-06-30
Doctorate	Universidad de Granada	1980-05-14
Assistant Professor	Universidad de Granada	1975/1982
Associate Professor	Universidad de Granada	1982/1985
Professor of University	Universidad de Granada	1985/1996
Full University Professor	Universidad de Granada	1996-08-13/2006-

A.3. Indicadores generales de calidad de la producción científica

Indicadores bibliométricos (según SCOPUS 2018):

Citas Totales: 1263 (SCOPUS).; Promedio citas/año (2014-2018): 50.6; Promedio de citas/artículo: 14.8 Índice h: 19.

Nº de sexenios: 6; Fecha concesión del último sexenio: 2017

Tesis doctorales dirigidas (últimos 10 años):2

A4. Indicadores académicos generales.

4.1. *Quinquenios Docentes, 5*

4.2. *Resultado de la Evaluación Docente (programa DOCENTIA o similar) 4.3.*

Número de asignaturas impartidas en el título evaluado. 1

4.4. *Puestos de Gestión ocupados.*

SECRETARÍA DEL DEPARTAMENTO DE INGENIERÍA QUÍMICA 1994-1997

DIRECTORA DEL DEPARTAMENTO DE INGENIERÍA QUÍMICA 1997-2012

RESPONSABLE DEL GRUPO DE INVESTIGACIÓN TEP212, JUNTA DE ANDALUCÍA DESDE 2002

Parte B. RESUMEN LIBRE DEL CURRÍCULUM

My research experience began with my doctoral thesis in 1980, on transfer of material, and active participation in research projects "Hydrolysis and fermentation of lignocellulosic waste", and "Oxygen transfer in bioreactors" funded by the CICYT in 1989.

After the achievement of a research project as a principal researcher "Formulation of specific liquid detergents for the industrial food industry and hospitality" project 1FD97-0931, I started a new line of research in surfactants in the Department of Chemical Engineering of the University of Granada.

Since then the summary of my curriculum is as follows:

Responsible for the research group "Enzymes Emulsions and Tensioactives" (Group TEP-212), formed by 12 researchers (permanent teaching staff).

I have participated or is participating in 21 RESEARCH PROJECTS granted by public organizations. Main Researcher in 11 of the 21 Projects. Participation in 12 RESEARCH CONTRACTS with companies (Puleva, Prodefut, TINO STONE, Betelgeux, Sensient) being a responsible researcher in 9 and obtaining an approximate funding of € 317,000.

I have 145 SCIENTIFIC PUBLICATIONS in research journals, more than 80% of which are indexed in the ISI. I have presented more than 100 COMMUNICATIONS in different National and International Congresses. I have 6 NATIONAL PATENTS, 1 of them has an exploitation license by the company Prodefut and another 3 are being used by the companies TINO STONE GROUP, currently Morewidth and BETELGEUX S.L.

Parte C. MÉRITOS MÁS RELEVANTES (ordenados por tipología)

C.1. Publicaciones Incluya una reseña completa de las 5-10 publicaciones más relevantes. (2009-actualidad)

- 1.- Vicaria J.M., Herrera-Márquez, O., Jurado-Alameda, E. (2018) Cleaning of dried starch adhered to stainless steel using electrocleaning. Optimization of the experimental conditions. Food Control. 84 (2018) 41-48.
- 2.-Vicaria, J.M., Jurado-Alameda, E., Herrera-Márquez, O., Olivares-Arias, V., Ávila-Sierra, A. (2017) Analysis of different protocols for the cleaning of corn starch adhering to stainless steel. Journal of Cleaner Production. 168 (2017) 87-96
- 3.- Jurado-Alameda E, Herrera-Márquez O, Martínez-Gallegos JF, Vicaria JM (2015) Starch-soiled stainless steel cleaning using surfactants and α -amylase. Journal of Food Engineering. 160, 56-64
- 4.- J.F. Martinez-Gallegos; E. Jurado; Jose L. Carrasquilla; J.L. Jiménez; P. Romero(2014). "Characterization of the ozone effect over a α -amylase from *Bacillus licheniformis*". Biochemical Engineering Journal 85, 119-124.
- 5.-Burgos A., Luzón G., Jurado Alameda E. (2014) "Effectiveness of milk soil removal in a bathsubstrate-flow (BSF) device for different types of milk " Journal of Food Engineering 142, 94.
- 6.- E. Jurado; D. Altmajer; M.García-Román; J.L. Jiménez(2014) "Study of heat-denatured whey protein removal from stainless steel surfaces in clean-in-place system. International Dairy Journal 38, pp. 195-198.
- 7.- E. Jurado Alameda; V. Bravo Rodriguez; D. Altmajer Vaz y R. de Cassia Siqueira Curto Valle(2011) "Effectiveness of Starch Removal in a Bath- Substrate-Flow (BSF) Device Using Surfactants and Alfa-Amylase" Food Hydrocolloids, 25, 647-653.
- 8.- Encarnación Jurado Alameda; M. García Román; G. Luzón González ; D. Altmajer and J.L. Jiménez Pérez (2011) "Optimization Of Lipase Performance in Detergent Formulations for Hard Surfaces" Industrial & Engineering Chemistry Research, 50, 11502-11510.
9. - E. Jurado Alameda; M. Fernández Serrano; J. Núñez Olea; M. Lechuga Villena y G. Luzón."Development and Application of Kinetic Models for the Primary Biodegradation of Non-Ionic Surfactant": Chemical Engineering Journal, 150, 440-446 (2009).
- 10.- E. Jurado Alameda; F. Camacho Rubio; G. Luzón; M. Fernández Serrano y M. García Román (2008) "Kinetics of the Enzymatic Hidrolysis of Triglycerides in O/W Emulsions. Study of Initial Rates and the Reaction Time Course" Biochemical Engineering Journal. 40, 473-484.

C.2. Participación en proyectos de I+D+i (2009-actualidad)

- 1.- **Project Title:** SURFACTANT FORMULATIONS AND CIP CLEANING PROCEDURES FOR THE ALIMENTARY INDUSTRY, USING NANOFUIDS, ENZYMES AND OZONE. Project reference: **CTQ201569658-R**
Funding Entity: Spanish Economy and Competitiveness Ministry

Project leader: **ENCARNACIÓN JURADO ALAMEDA**, José María Vicaria Rivillas (project co-leader)

Date: 01/01/2016 – 31/12/2018, extended until 31-12-2019

Funded budget: 123000 €

2.- Project Title: ECOLOGICAL SURFACTANT FORMULATIONS SPECIFIC FOR DIFFERENT SOILS AND SUBSTRATES. Reference: **CTM2010-16770**.

Funding entity: Spanish Science and Innovation Ministry.

Project leader: **E. JURADO ALAMEDA** Date: 2011-01-01 hasta: 2014-06-31.

Funded budget: 125.840€.

3.-Project Title: BIODEGRADABLE AND ENZYMATIC BASED SPECIFIC DETERGENT FORMULATIONS FOR HARD SURFACES CLEANING AND DISINFECTION. Reference: **TEP 02603**.

Funding Entity: Consejería De Innovación, Ciencia Y Empresa Junta De Andalucía.

Project leader: **E. JURADO ALAMEDA**

Date: 2008-01-30 to: 2013-01-30

Funded budget: 283.304€

4.-Project Title: OZONE ACTION FOR DEGRADATION OF SURFACTANTS AND FATTY DIRT IN PROCESS OF WASHING. Reference: Reference: **CTQ2006-12089**

Funding Entity: Ministry of Education and Science

Project leader **E. JURADO ALAMEDA**

Date: 2006-10-01 to: 2009-10-30

Funded budget: 141,570 **5.-Project Title:** ENZYMATIC PREPARATIONS FOR DEGRADATION OF FOOD RESIDUES. Reference:

PHB2012-0277-PC.

Funding Entity: Ministry of Education and Culture.

Project leader: **E. JURADO ALAMEDA** Date:

1999-11-01 hasta: 2002-11-30.

Funded budget: 42.000€.

C.3. Participación en contratos de I+D+i (2009-actualidad)

1.- Title of the contract: Contrato de Colaboración para Estabilización de Dispersiones de Nanopartículas conteniendo perfumes

Type of contract: Collaboration with companies, UNIVERSIDAD DE GRANADA, C-4251 Financing company: Sensient Fragrances, S.A.

Date: 2016-4-1 to: 2016-7-31

Responsible researcher: **E. JURADO ALAMEDA**

Funded budget: 15730€

2.- Title of the contract: Contrato de Colaboración para el Desarrollo del Proyecto De Investigación "Cip-Nanotec" (CDTI).

Type of contract: Collaboration with companies, UNIVERSIDAD DE GRANADA C-3128 Financing company: BETELGEUX S.L.

Date 2012-07-1 to 2013-12-31.

Responsible researcher: **E. JURADO ALAMEDA**.

Funded budget: 50000€,

3.-Title of the contract: Asesoramiento Técnico Sobre la Eficacia de los Procesos de limpieza Industriales, y Desarrollo de Nuevas Formulaciones Detersivas con Bajo Impacto Ambiental. Type of contract: Work and service, UNIVERSIDAD DE GRANADA. C-2835 Financing company: BETELGEUX S.L.

Date: 2010-01-01 to: 2011-01-01.

Responsible researcher: **E. JURADO ALAMEDA**.

Funded budget: 18.000€

4.-Title of contract: Formación en Tecnología de Tensioactivos.

Type of contract: Training for companies UNIVERSIDAD DE GRANADA,C-2923 Financing company: BETELGEUX S.L.

Date: 2011-03-01 hasta: 2011-05-01.

Responsible researcher: **E. JURADO ALAMEDA**.

Funded budget: 3.000€

5.-Title of contract: Desarrollo de Productos Tino en las Fases de Colocación en Obra y Limpieza y Mantenimiento para limpieza de Piedra Natural

Type of contract: Work and service,UNIVERSIDAD DE GRANADA C-3164

Financing Company: TINO STONE GROUP Date: 2008-01-01 to: 2011-08-30.

Responsible researcher: **E. JURADO ALAMEDA**.

Funded budget:135.000€

6.-Title of contract: Elaboración De Catálogo De Productos De Mantenimiento Y De Limpieza Marca Tino.

Type of contract: Work and service,UNIVERSIDAD DE GRANADA, C-2923

Financing company: TINO STONE GROUP Date: 2008-02-01 to: 2008-04-30.

Responsible researcher: **E.JURADO ALAMEDA**. Funded budget: 3.000€

7.- Title contract: Formulación de Detergentes Líquidos específicos para el sector industrial agroalimentario y hostelería.

Type of contract: Participation in research project

Financing company: BMI BAILÓN MORENO INDUSTRIAS, C.B. DIVISIÓN INDUSTRIAL.

Date:1999-06-01 to: 2002-01-01.

Responsible researcher: **E. JURADO ALAMEDA**.

Funded budget: 98.000€

C.4. Patentes Relacione las patentes más destacadas (2009-actualidad)

1- Authors: J.M. Vicaria Rivillas, E. Jurado Alameda, O. Herrera-Márquez. Reference P201431295. Procedimiento y dispositivo de limpieza de superficies metálicas utilizando una corriente continua.

Priority: España. Application date (in OEPM): 08/09/2014. Titular entity: Universidad de Granada. **2-**

Authors: E. Jurado, V. Bravo, R. Bailón, L.C h i a d m i. Title: Composición para eliminar cementos y morteros a base de cemento .Reference: P201430624. Priority: ESPAÑA Application date: 2011.Titular entity: UNIVERSIDAD DE GRANADA, MOREWITH INVESTMENTS.Exploitation Companie: MOREWITH INVESTMENTS.

3.Authors: E. Jurado, V. Bravo, R. Bailón, L..C h i a d m i. Title: Composiciones decapantes, composiciones precursoras de las mismas, su procedimiento de preparación "in situ", y su uso para decapar, pinturas, barnices y lacas. Reference: P 2 0 1 1 3 1 3 8 0 ES2400155A1. Priority: ESPAÑA Application date: 2011.Titular entity: UNIVERSIDAD DE GRANADA TINO STONE GROUPE. Priority: ESPAÑA, Exploitation Companie: PRODEFUT S.A, TINO STONE GROUPE

4.Authors; Encarnación Jurado Alameda, J.M. Vicaria Rivillas, J.F. García Martín.Título:

Composiciones Tensioactivas Altamente Humectantes

N. de solicitud: P201001646 ES 2352934 Priority: ESPAÑA Application date: 2010-12-21.Titular entity: UNIVERSIDAD DE GRANADA

5.Inventores: E. Jurado, V. -Bravo, R. Bailón, J. Núñez.Title: Detergentes Para Superficies Duras.N. de solicitud: 200701880 WO2009000958 Priority: ESPAÑA. Application date: 2007-06-26.Titular entity: UNIVERSIDAD DE GRANADA.

Exploitation Companie: PRODEFUT S.A.TINO STONE GROUPE

6.Inventores: E. Jurado, V. Bravo , R. Bailón, J. Núñez , D. Altmajer, Title: Método BSF (Baño-Sustrato-Flu jo) y Dispositivo para la evaluacion de la eficacia detersiva de detergentes de superficies duras. Reference: P200202364: ES 2 251 269 Application date: 2001-0626. Priority ESPAÑA.Titular entity: UNIVERSIDAD DE GRANADA Exploitation Companie: BETELGEUX S.A.

Otros

Associate editor of the Journal of Surfactants and Detergents, Courrent Biochemical Bioengineering and International Journal of Food Processing Technology. Director of the Chemical Engineering Department 1997-2012

Representative of Department Directors of the Government Council of the University of Granada and Member of the delegated Commission of the Governing Council of the University in the Commission of titles and degrees 2008-2012

President of the Commission of the Postgraduate Advisory Council for the evaluation of Masters in the Engineering and Architecture Branch 2008-2012

Member of the ANECA Committee for teacher evaluation since 2012 at 2014

C.5. XXX