Fecha del CVA	25/02/2019

Parte A. DATOS PERSONALES

Nombre y Apellidos	ANTONIA INFANTES MOLINA		
DNI	74830388A	Edad	40
Núm. identificación del investigador	Researcher ID	D-5889-2011	
	Scopus Author ID		
	Código ORCID	0000-0001-6360-773X	

A.1. Situación profesional actual

Organismo	Universidad de Málaga		
Dpto. / Centro	Química Inorgánica, Cristalografía y Mineralogía / Facultad de Ciencias		
Dirección	C/ San Blas Nº 13, Colmenar, 29170, Málaga		
Teléfono	(0034) 652071665	Correo electrónico	ainfantes@uma.es
Categoría profesional	Investigador Ramón y Cajal	Fecha inicio	2016
Espec. cód. UNESCO			
Palabras clave			

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

Licenciatura/Grado/Doctorado	Universidad	Año
Programa Oficial de Doctorado en Química Avanzada. Preparación y Caracterización de Materiales	Universidad de Málaga	2006
Ingeniero Químico	Universidad de Málaga	2002

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

Years of research activity: 16

SCOPUS
h-index: 22
Author ID: 6506187869
Other name formats: Infantes-Molina A.; Molina, Antonia Infantes
Documents: 71

Researchgate
RG-Score: 36.3
Documents: 76

Parte B. RESUMEN LIBRE DEL CURRÍCULUM

I studied Chemical Engineering at the University of Málaga (2002). In November 2002, I got a research contract inside an European Project (GRD2-2000-30316) and in September 2003 I started the PhD (Pre-doctoral fellowship (UAC2003-0036)) to finish my PhD Thesis on July 6th, 2006-European Mention. My Thesis work was focused on the preparation of supported catalysts for diesel upgrading with a stay at the University of Genova. In 2007, I started my postdoctoral research period with a postdoctoral excellence contract from Junta of Andalusia devoted to nanoporous solids for environmental catalysis. This project lead to the development of a novel synthetic route to prepare highly active nanocatalysts with important publications in international journals. In this period I also worked with the group of Pesquisa em Separações por Adsorção, Universidade Federal do Ceará (Brasil) to study adsorbent materials. In 2009 I obtained a Juan de la Cierva Fellowship (JCI-2009-05821) and on April 2010 I joined the Institute of Catalysis and Petroleochemistry (ICP-CSIC) in Madrid, the

research line being the preparation of catalytic systems for the production of clean fuels. During the last years I have also joined the Laboratory of Catalysis and Catalytic Processes group at Politecnico di Milano to start new catalytic research lines related to NOx catalytic removal from mobile sources (Pirelli Co and ENEL enterprises) first as a visitant researcher; and to study catalytic processes for CO2 transformation later as an associate researcher (ENEA and Marie Tecnimont Enterprise). I have obtained 3 grants from the government (2 predoctoral and 1 postdoctoral) and 6 research contracts (1 predoctoral and 5 postdoctoral). I have been member of three research groups (2 nationals and 1 international), I have done several international stays and I have participated in several national and international I+D+i Projects (13). I have published 4 chapter books and more than 70 articles in peer-reviewed international journals resulting in an h index of 21 and a high number of citations (more than 1188 citations). I have also presented 95 communications at national and international recognized conferences. To mention is the contribution at the “247TH ACS Meeting& Exposition. Chemistry and Materials for Energy”-Energy and Fuels division (March 2014) and 12th World Congress on Biofuels and Bioenergy (Zurich 2018), as an invited speaker. I have been co-advisor of 2 PhD Thesis (European Mention) and currently supervising other three ones; 10 Final Projects of students from Chemical Engineering, 4 works leading to an ASD at the UMA and 4 Minor Thesis at the Politecnico of Milan . I have been reviewer of manuscripts from several JCR journals and Editor of 2 International journals. In these years I have opened collaborations with 10 international research groups and several national groups. In 2010, I was founding member of the Spin-off enterprise VACOQUING at PTA-Málaga. Moreover, I have collaborated with the EPCOS company and currently with the company Petrobras (Brazil). I have been a member of the organizing committee of 3 international congresses, member of the Spanish Catalysis Society, Royal Spanish Society of Chemistry and GERMN. Between October 2015 and November 2016, he was in charge of an NMR solids spectrometer. Since December 2016, I am Ramon y Cajal researcher in the Department of Inorganic Chemistry (University of Málaga).

Parte C. MÉRITOS MÁS RELEVANTES (ordenados por tipología)

C.1. Publicaciones

1 **Artículo científico**. Elena Rodríguez Aguado; et al. (/2). 2018. Iron phosphides presenting different stoichiometry as nanocatalysts in the HDO of phenol Catalysis Today. Elsevier. In press. ISSN 0920-5861.

2 **Artículo científico**. Elisa Moretti; et al. (/3). 2018. Sustainable photo-assisted CO oxidation in H 2 -rich stream by simulated solar light response of Au nanoparticles supported on TiO2 Catalysis Today. Elsevier. 304, pp.135-142. ISSN 0920-5861.

3 **Artículo científico**. C García Sancho; et al. (/6). 2017. Effect of the treatment with H 3 PO 4 on the catalytic activity of Nb 2 O 5 supported on Zr-doped mesoporous silica catalyst. Case study: Glycerol dehydration Applied Catalysis B: Environmental. 221, pp.158-168. ISSN 0926-3373.

4 **Artículo científico**. Ballesteros-Plata, D.; et al. 2017. Incorporation of molybdenum into Pd and Pt catalysts supported on commercial silica for hydrodeoxygenation reaction of dibenzofuran Applied Catalysis A: General. Elsevier. 547, pp.86-95. ISSN 0926-860X.

5 **Artículo científico**. A. López Vergara; et al. (7/3). 2017. Effect of preparation conditions on the polymorphism and transport properties of La6-xMoO12-δ Chemistry of Materials. American Chemical Society. 29-16, pp.6966-6975. ISSN 0897-4756.

6 **Artículo científico**. Elisa Moretti; et al. (/2). 2017. Low-temperature carbon monoxide oxidation over zirconia-supported CuO–CeO2 catalysts: Effect of zirconia support properties.Applied Surface Science. Elsevier. 403, pp.612-622. ISSN 0169-4332.

7 **Artículo científico**. Fabio Brignoli; et al. (/4). 2017. CO2 hydrogenation to lower olefins on a high surface area K-promoted bulk Fe-catalyst Applied Catalysis B: Environmental. 200, pp.530-542. ISSN 0926-3373.

8 **Artículo científico**. Cecilia, Juan Antonio; et al. (/2). 2016. Enhanced HDO activity of Ni2P promoted with noble metals Catalysis Science and Technology. Royal Society of Chemistry. 6, pp.7323-7333. ISSN 2044-4753.

9 **Artículo científico**. Elisa Moretti; et al. (/2). 2015. Investigation of zirconia phase influence on CuO-CeO2/ZrO2 systems for the low-temperature total oxidation of carbon monoxide Applied Catalysis B: Environmental. Under review. ISSN 0926-3373.

10 **Artículo científico**. Infantes-Molina, Antonia; et al. (/1). 2015. Nickel and cobalt phosphides as effective catalysts for oxygen removal of dibenzofuran: Role of contact time, hydrogen pressure and hydrogen/feed molar ratio Catalysis Science and Technology. Royal Society of Chemistry. 296, pp.112-119. ISSN 2044-4753.

11 **Artículo científico**. Elisa Moretti; et al. (/5). 2015. 3-D flower like Ce–Zr–Cu mixed oxide systems in the CO preferential oxidation (CO-PROX): Effect of catalyst composition Applied Catalysis B: Environmental. 168-169, pp.385-395. ISSN 0926-3373.

12 **Artículo científico**. Barroso-Martín, I.; et al. (6/2). 2018. CO Preferential Photo-Oxidation in Excess of Hydrogen in Dark and Simulated Solar Light Irradiation over AuCu-Based Catalysts on SBA-15 Mesoporous Silica-Titania Materials. MDPI AG. 11-7, pp.1203. ISSN 1996-1944.

13 **Artículo científico**. Barroso-Martín, I.; et al. (6/6). 2018. Au and AuCu Nanoparticles Supported on SBA-15 Ordered Mesoporous Titania-Silica as Catalysts for Methylene Blue Photodegradation Materials. MDPI AG. 11-6, pp.890. ISSN 1996-1944.

14 **Artículo científico**. Autié-Pérez, M.; et al. (5/2). 2018. Separation of Light Liquid Paraffin C5–C9 with Cuban Volcanic Glass Previously Used in Copper Elimination from Water Solutions Applied Sciences. MDPI. 8-2, pp.174-186. ISSN 2076-3417.

15 **Artículo científico**. Ballesteros-Plata, D.; et al. (5/2). 2017. Lamellar zirconium phosphates to host metals for catalytic purposes Dalton Transactions. ROYAL SOC CHEMISTRY. 47-9, pp.3047-3058. ISSN 1477-9226.

16 **Artículo científico**. Cecilia, J.A.; et al. 2017. Aluminum doped mesoporous silica SBA-15 for glycerol dehydration to value-added chemicals Journal of Sol-Gel Science and Technology. Springer New York LLC. 83, pp.342-354. ISSN 09280707.

17 **Artículo científico**. Rodríguez-Aguado, Elena; et al. (6/2). 2017. Ni and Fe mixed phosphides catalysts for O-removal of a bio-oil model molecule from lignocellulosic biomass Molecular catalysis. Elsevier. 437, pp.130-137.

18 **Artículo científico**. Ballesteros-Plata, D.; et al. (6/2). 2017. Zirconium phosphate heterostructures as catalyst support in hydrodeoxygenation reactions Catalysts. MDPI AG. 176. ISSN 20734344.

19 **Artículo científico**. Rodríguez-Aguado, Elena; et al. (6/2). 2017. CoxPy Catalysts in HDO of Phenol and Dibenzofuran: Effect of P content Topics in Catalysis. Springer US. 60, pp.1094-1107. ISSN 1022-5528.

20 **Artículo científico**. Arcanjo, M.R.A.; et al. (/4). 2017. Conversion of glycerol into lactic acid using Pd or Pt supported on carbon as catalyst Catalysis Today. Elsevier Science BV. 279, pp.317-326. ISSN 0920-5861.

21 **Artículo científico**. Solis-Casados, D.A.; et al. (7/3). 2017. Synthesis and Characterization of Ag-Modified V2O5 Photocatalytic Materials Journal of Chemistry. Hindawi Publishing Corporation. 5849103. ISSN 20909063.

22 **Artículo científico**. Dolores Eliche Quesada; et al. (5/5). 2017. Investigation of using bottom or fly pine-olive pruning ash to produce environmental friendly ceramic materials Applied Clay Science. Elsevier. 135, pp.333-346. ISSN 0169-1317.

23 **Artículo científico**. Antonia Infantes Molina; et al. (4/4). 2017. Characterization and evaluation of rice husk ash and wood ash in sustainable clay matrix bricks Ceramics International. Elsevier. 7, pp.463-475. ISSN 0272-8842.

24 **Artículo científico**. Infantes-Molina, A.; et al. (/1). 2016. Pd-Nb binfunctional catalysts supported on silica and zirconium phosphate heterostructures for O-removal of dibenzofurane Catalysis Today. Elsevier Science BV. 277, pp.143-151. ISSN 0920-5861.

25 **Artículo científico**. Riani, P.; et al. (/3). 2015. Hydrogen from steam reforming of ethanol over cobalt nanoparticles: Effect of boron impurities Applied Catalysis A: Chemical. Elsevier Science BV. In press. ISSN 0926-860X.

C.2. Proyectos

1 MAT2017-88097-R, Desarrollo y caracterización de nuevos composites geopoliméricos basados en residuos de la industria del olivar. Hacia una construcción sostenible Dolores Eliche Quesada. (Universidad de Jaén). 01/01/2018-31/12/2020. 160.000 €. Miembro de equipo.
2 CTQ2015-68951-C3-3-R, Tratamientos catalíticos para la valorización de la biomasa y la eliminación de residuos asociados Enrique Rodríguez Castellón. (Universidad de Málaga). 01/01/2016-31/12/2018. 83.000 €. Miembro de equipo.
3 06.22.00.65.44 IBP, Valorización de cenizas procedentes de diferentes actividades industriales para la obtención de nuevos materiales cerámicos sostenibles Dolores Eliche Quesada. (Universidad de Jaén). 01/04/2015-31/03/2017. 8.125 €. Miembro de equipo.
4 CTQ2012-37925-C03-03, Catalizadores para la energía y el medioambiente: Hidrodesulfuración e hidrodesoxigenación Enrique Rodríguez Castellón. (Universidad de Málaga). 13/01/2014-15/10/2015. 75.000 €. Miembro de equipo.
5 Catalytic Processes for Olefis Production from Carbon Dioxide Marie Tecnimont Innovation Center B.V.. Pio Forzatti. (Politecnico di Milano-Department of Energy). 06/02/2013-31/12/2013. Otros.
6 Studi e Sperimentazione del processo di produzione di combustibili liquidi da carbone Ministero dello Sviluppo Economico-ENEA. Studi sull'utilizzo pulito dei combustibili fossili, la cattura ed il sequestro della CO2. Pio Forzatti. (Politecnico di Milano-Department of Energy). 01/01/2013-31/12/2013. Otros.
7 P09-FQM-5070, Catalizadores Nanoporosos para biorrefinerías Proyecto de excelencia. Antonio Jiménez López. (Universidad de Málaga). 01/10/2010-30/09/2013. 204.923 €. Otros.
8 RyC-2015-17870, Proyecto RyC-2015-17870. Ministerio de Economía y Competitividad Antonia Infantes Molina. (Universidad de Málaga). Desde 01/12/2016. 308.600 €. Miembro de equipo.

C.3. Contratos

1 Estudios de mecanismos de desactivación de adsorbentes usados en procesamiento de gas natural de las unidades tipo FPSO de la región Pré-Sal Funsacao de Apoio a sercicos Técnicos, Ensino e Fomento a Pesquisas.. Enrique Rodríguez Castellón. (Spain). 01/07/2016-01/07/2018. 42.279 €.
2 Realización de estudios de materiales poliméricos y metálicos mediante XPS EPCOS ELECTRONIC COMPONENTS, S.A. Antonia Infantes-Molina. 01/05/2015-P1Y. 10.000 €.
3 Catalytic Processes for Olefin Production from Carbon Dioxide- Marie Tecnimont Enterprise Marie Tecnimont Enterprise. Antonia Infantes Molina. 06/02/2013-P10M.
4 JRC Energía: Abbattimento degli inquinanti da fumi di combustione (IST 235) ENEL Enterprise. Luca Lietti. 01/03/2011-P1M15D.
5 Abatment of NOx under lean conditions Pirelli Eco Technologies. Luca Lietti.

C.4. Patentes