CURRICULUM VITAE

EUROPEAN FORMAT

PERSONAL INFORMATION

Name, Surname	Noemi Linares Pérez
Professional address	University of Alicante. Inorganic Chemistry Department Carretera San Vicente s/n. E-03690, Alicante, Spain
Telephone	(+34) 652973939
E-mail	noemi.linares@ua.es
Nationality	Spanish
Place and Date of birth	Alicante (Spain), 26/08/1977

WORK EXPERIENCE

2013 – Currently

Name and address of employer	*Molecular Nanotechnology Lab, Department of Inorganic Chemistry, University of Alicante.* Carretera San Vicente del Raspeig s/n 03690 San Vicente del Raspeig (Alicante) Spain
Type of business or sector	Research and Academy
Occupation or position held	Researcher and teacher

2011 – 2013

Name and address of employer	*Istituto di Chimica dei Composti OrganoMetallici – Area di Ricerca CNR di Firenze* Via Madonna del Piano 10 50019 Sesto Fiorentino (Firenze) Italy
Type of business or sector	Research
Occupation or position held	Post-doctoral researcher

2010 – 2011

Name and address of employer	*Istituto di Chimica dei Composti OrganoMetallici – Area di Ricerca CNR di Firenze* Via Madonna del Piano 10 50019 Sesto Fiorentino (Firenze) Italy
Type of business or sector	Research
Occupation or position held	Post-doctoral researcher Marie Curie Experienced Researcher Fellow (Call FP7-PEOPLE-2007-1-1-ITN, Proposal no. 215193-2)

2006 – 2010

Ph. D. Student. Fellowship of the Spanish Ministry of Education and Science (BES-2006-13056).

Name and address of employer	*Molecular Nanotechnology Lab, Department of Inorganic Chemistry, University of Alicante.* Carretera San Vicente del Raspeig s/n 03690 San Vicente del Raspeig (Alicante) Spain
Type of business or sector	Research and Academy
Occupation or position held	Pre-doctoral researcher

2001 – 2006	Technician in quality control and environmental management.
Name and address of employer	COLEBEGA S.A. (Coca-Cola Company, Spain). Department of quality control and environmental management. Av. Real Monasterio Sta María de Poblet, 36. 46930 Quart de Poblet (Valencia) Spain
Type of business or sector	Quality control and environmental management
Occupation or position held	Technician

EDUCATION AND TRAINING

2008 – 2010	***D. Phil*** – University of Alicante, Department of Inorganic Chemistry. Thesis: "Hybrid functional materials based on metallic nanoparticles and complexes onto mesoporous silica matrixes". *2010. Advisor: Dr. J. García-Martínez.*
2006 – 2008	***M. Phil*** – University of Alicante, Department of Inorganic Chemistry. Master Thesis: "Synthesis of nanostructured silica materials by Pd nanoparticles self-assembly". 2008. Advisor: Dr. J. García-Martínez.
1998 – 2005	**B.Sc.** – Chemical Engineering. University of Alicante. 2005.

RESEARCH ACTIVITIES

Research sectors

Synthesis of porous materials and metal nanoparticles by sol-gel chemistry, covalent and non-covalent heterogenization of metal nanoparticles and molecular complexes in porous materials, development of new hierarchical porous materials, heterogeneous catalysis for fine-chemicals production, catalysis in flow and green chemistry

Books and Articles

<u>*Peer Reviewed ISI Publications:*</u>

1. N. Linares, A.M. Silvestre-Albero, E. Serrano, J. Silvestre-Albero, J. Garcia-Martinez, *Chem. Soc. Rev.,* 43 (2014) 7681 – 7717.

2. N. Linares, C.P. Canlas, J. Garcia-Martinez, T.J. Pinnavaia, Colloidal gold immobilized on mesoporous silica as a highly active and selective catalyst for styrene epoxidation with H_2O_2, *Catalysis Communications*, 44 (2014) 50 – 53.

3. E. Serrano, **N. Linares**, J. Garcia-Martinez, J.R. Berenguer, Sol-gel coordination chemistry, *ChemCatChem*, 5, (2013) 844 – 860.

4. N. Linares, E. Serrano, A.I. Carrillo, J. Garcia-Martinez, Metal-Complex Ionosilicas: Cationic Mesoporous Silica with Ni(II) and Cu(II) Complexes in Their Framework, *Materials Letters*, 95 (2013) 93 – 93.

5. A. Sachse, **N. Linares,** P. Barbaro, F. Fajula, A. Galarneau, Non-conventionnal silica monolith with hierarchical porosity doped with Pd nanoparticles for hydrogenation reactions in continuous flow, *Dalton Transactions*, 42 (2013) 1378 – 1384.

6. N. Linares, S. Hartmann, A. Galarneau, P. Barbaro, Continuous partial hydrogenation reactions by Pd@unconventional bimodal porous titania monolith catalysts, *ACS Catalysis*, 2 (2012) 2194 − 2198.

7. P. Barbaro, F. Liguori, **N. Linares**, C. Moreno Marrodan, Bifunctional metal / acid supported catalysts for selective organic transformations, *European Journal of Inorganic Chem*istry, (2012) 3807 – 3823.

8. N. Linares, A.E. Sepúlveda, J.R. Berenguer, E. Lalinde, J. Garcia-Martinez, Mesoporous organosilicas with Pd(II) complexes in their framework, *Microporous and Mesoporous Materials*, 158 (2012) 300 – 308.

9. N. Linares, E. Serrano, M. Rico, A.M. Balu, E. Losada, R. Luque, J. Garcia-Martinez, Incorporation of chemical functionalities in the framework of mesoporous silica, *Chemical Communications*, 47 (2011) 9024 – 9035.

10. A.I. Carrillo, **N. Linares**, E. Serrano J. Garcia-Martinez, Well-ordered mesoporous interconnected silica spheres prepared using extremely low surfactant concentrations, *Materials Chemistry and Physics*, 129 (2011) 261– 269.

11. N. Linares, A.E. Sepúlveda, M.C. Pacheco, J.R. Berenguer, E. Lalinde, C. Najera, J. Garcia-Martinez, Synthesis of Mesoporous Metal Complex-Silica Materials and its Use as Solvent-free Catalysts*, New Journal of Chemistry*, 35 (2011) 225 – 234.

12. J. Garcia-Martinez, **N. Linares**, S. Sinibaldi, E. Coronado, A. Ribera, Incorporation of Pd nanoparticles in nanostructured silica, *Microporous and Mesoporous Materials*, 117 (2009) 170 – 177.

13. G. Abellan, A.I. Carrillo, **N. Linares**, E. Serrano, J. Garcia-Martinez, Hierarchical control of porous silica by pH adjustment: Alkyl Polyamines as Surfactants for Bimodal Silica Synthesis and its Carbon Replica*, Journal of Solid State Chemistry*, 108 (2009) 2141 – 2148.

14. E. Coronado, A. Ribera, J. Garcia-Martinez, **N. Linares**, L.M. Liz-Marzán, Synthesis, Characterization and Magnetism of Monodispersed Water Soluble Palladium Nanoparticles, *Journal of Material Chemistry*, 18 (2008) 5682 – 5688.

Publications in Review and in Preparation:

1. A. Grau-Atienza, D. T. Johnson, **N. Linares**, J. Garcia-Martinez, Rational design of a multifunctional catalyst for the hydrolysis of ammonia borane, *ChemPlusChem*, submitted.

2. N. Linares, C. Moreno-Marrodan, P. Barbaro**,** Titanate nanotubes containing PdNPs: Highly active and selective catalysts for continuous flow hydrogenation reactions, *Catalysis Science and Technology*, submitted.

Other Publications:

1. A. Balu, J. Campelo, A.I. Carrillo, **N. Linares**, J. Garcia-Martinez, E. Serrano, R. Luque, A.A. Romero. "Supported Pd nanoparticles: methods and applications" Chapter 5 in "Palladium: Compounds, Production and Applications". K.M. Brady Ed, 2010, Nova Science Publishers, Inc., ISBN: 978-1-61761-733-1.

2. G. Abellán, A.I. Carrillo, J. García-Martínez, **N. Linares**. "Nanomaterials for Advanced Applications" Pages: 40 to 48. Publicaciones Universidad de Granada, 2007, ISBN: 84-689-9177-5.

ADDITIONAL INFORMATION

Stays in Foreign Research Centers**:**

1. 2010-13 (30 months) - CONSIGLIO NAZIONALE DELLE RICERCHE (Italy)
Subject: Immobilization of selective catalysts on nanostructured solid supports
Supervisor: Pierluigi Barbaro
Fellowship of the Initial Training Network NANO-HOST

2. 2010 (1 month) - CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE (France)
Subject: Synthesis of mesoporous titania materials for their applications as catalyst supports.
Supervisor: Anne Galarneau
Fellowship of the Initial Training Network NANO-HOST

3. 2009 (5 months) - MICHIGAN STATE UNIVERSITY (USA)
Subject: Heterogenization of metallic complexes in nanostructured organosilica materials.
Supervisor: T.J. Pinnavaia
Fellowship of the Spanish Ministry of Education and Science for pre-doctoral stays in foreign research centers

4. 2008 (3 months) - CALIFORNIA INSTITUTE OF TECHNOLOGY (USA)
Subject: Functionalization of mesoporous silica materials with aldehyde groups
Supervisor: M.E. Davis
Fellowship of the Spanish Ministry of Education and Science for pre-doctoral stays in foreign research centers

5. 2008-10 (3 weeks) - UNIVERSITY OF LA RIOJA (Spain)
Subject: Synthesis and characterization of Pd(II) complexes.
Supervisor: J.R. Berenguer

Funding for the participation in RD national and international projects:

1.	Title of the project:	WAste bio-feedstocks hydro-Valorisation processes (WAVES)
Organization:		FP7 - ERA-NET CAPITA
Duration		from 01/09/2014 to 31/12/2015
Amount €		90.000
Tutor		J. Garcia-Martinez
2.	Title of the project:	Development of catalysts for refining processes
Organization:		REPSOL S.A.
Duration		from 01/11/2014 to 30/10/2015
Amount €		134.000
Tutor		J. Garcia-Martinez
3.	Title of the project:	NANO-HOST. Homogeneous Supported Catalyst Technologies: the sustainable approach to highly-selective, fine chemicals production
Organization:		European Commission - FP7
Duration		from 01/09/2010 to 31/12/2011
Amount €		89.000
Tutor		P. Barbaro
4.	Title of the project:	Analysis of the Usage of Nanoscience and Nanotechnology in Chemistry
Organization:		IUPAC
D ration		from 2008 to 2010
Amount €.		3.000
Tutor		J Garcia Martinez, Sanjai Mattur
5.	Title of the project:	Molecular Nanotechnology Lab (VIGROB-194)
Organization:		Universidad de Alicante
Duration		from 2007 to 2010
Amount €.		4.000
Tutor		J. Garcia-Martinez
6.	Title of the project:	Fabrication of nanostrucutured silica materials by self-assembly of nanoparticles
Organization:		Spanish Ministry of Education and Science
Duration		from 2005 to 2008
Amount €.		71.400
Tutor		J. Garcia-Martinez

Communications to National and International Congresses:

Selected oral contributions co-authored by N. Linares and presented to various national and international congresses:

1. N. Linares, E. Serrano, J.R. Berenguer, J. García Martínez, Immobilization of coordination compounds and metallic nanoparticles on mesoporous materials by sol-gel chemistry, XXXVI Biennial Reunion of the Spanish Royal Society of Chemistry (RSEQ), 2013, Santander (Spain)

2. N. Linares, S. Hartmann, A. Galarneau, P. Barbaro, *„Immobilization of selective catalysts on nanostructured solid supports"*, Third Yearly Meeting Nano-host, 2011, St. Andrews (UK)

3. A.I. Carrillo, **N. Linares**, E. Serrano, J. García-Martínez, *„Incorporation of Ce(III), Al(IV) and Ti(IV) in helical mesostructured silica"*, XXXII Biennial Reunion of the Spanish Royal Society of Chemistry (RSEQ), 2009, Oviedo (Spain)

4. J. Garcia-Martinez, A.I. Carrillo, **N. Linares** *„In-situ incorporation of Pd-trialkoxisilanes complexes in nanostructured silica". 7ª* Scientific Reunion of Solid State Chemistry, 2008, Almuñecar (Spain)

5. J. Garcia-Martinez, G. Abellán, A.I. Carrillo, **N. Linares**. *„Bimodal Macro-Mesoporous Silica Networks".* 11th Nanotechnology Conference and Trade Show, 2008, Boston (USA)

6. J. Garcia-Martinez, G. Abellán, A.I. Carrillo, **N. Linares**. *„Novel Techniques for the Preparation of Pd/MCM-41".* XXXI Biennial Reunion of the Spanish Royal Society of Chemistry, 2007, Toledo (Spain)

7. J. Garcia-Martinez, G. Abellán, P. Brugarolas, A.I. Carrillo, **N. Linares**. *„Novel Hierarchical Nanostructures Using Biomimetics".* XVIII Mendeleev Congress on General and Applied Chemistry, 2007, Moscow (Russia)

8. J. Garcia-Martinez, G. Abellán, A.I. Carrillo, **N. Linares**. *„Pd Nanoparticles Incorporated in MCM-41 type Silica".* 41st IUPAC World Chemistry Congress, 2007, Torino (Italy)

9. N. Linares, J. Garcia-Martinez, G. Abellán. *„Incorporation of Pd Nanoparticles in Mesostructured Silica".* I Symposium on Nanoscience of the University of Alicante, 2007**,** Alicante (Spain)

And more than 20 poster contributions.