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**Researcher at Centro de Investigación en Nanomateriales y Nanotecnología [www.cinn.es](http://www.cinn.es)**

**Bio-profile**

Professor Olga García Moreno holds a PhD in Geology and teaches at the University of Oviedo. She is also a researcher at the Center for Nanomaterials and Nanotechnology (CSIC-UO-PA). She was a Visiting Scholar at the University of California, Berkeley, in 2013. She has published widely on advanced ceramic nanomaterials and igneous petrology. Her research interests cover phase equilibrium diagrams with applications in petrology and material sciences. She has also experience in experimental petrology and published her PhD dissertation on this topic. She is also interested in cosmochemistry and meteorite petrology. Her laboratory skills include material synthesis (ceramics and glasses), conventional and non-conventional sintering of ceramic materials, chemical (SEM-EDX, EPMA, XRD, XRF), structural and mechanical characterization of materials. Since 2013 she has been introducing Big History (the new integrated approach to our knowledge of the Cosmos, Earth, Life and Humanity) in Spain, together with the role of planetary geology and meteorites in this interdisciplinary approach (<http://ibhanet.org>). She has participated in several Spanish and European projects in the fields of geology and material science. She has also participated in innovative Geological teaching projects and in numerous science outreach activities.

**Experience**

Researcher in the Research Center of Nanomaterials and Nanotechnology of the National Research Council (CSIC) (Spain). 2011-2012

“JAE-Doc” fellowship in the Research Center of Nanomaterials and Nanotechnology of the National Research Council (CSIC) (Spain). 2009-2011

“Juan de la Cierva” fellowship in the National Coal Institute (INCAR) of the National Research Council (CSIC) (Spain). 2005-2009

Ph.D. University of Oviedo. 2003.

Ms. Geology. University of Oviedo. 1999.

## List of publications

PEDREIRA, D., AFONSO, J.C., PULGAR, J.A., GALLASTEGUI, J., CARBALLO, A., FERNANDEZ, M., GARCIA-CASTELLANOS, D., JIMENEZ-MUNT, I., SEMPRICH, J., GARCIA-MORENO, O. Geophysical-petrological modeling of the lithosphere beneath the Cantabrian Mountains and the North-Iberian margin: Geodynamic implications. *Lithos*. 230 46-68 (2015)

BENAVENTE, R.; SALVADOR, M.D.; PEÑARANDA-FOIX, F.L.; GARCÍA-MORENO, O.; TORRECILLAS, R.; BORRELL, A. Microwave, Spark Plasma and Conventional Sintering to Obtain Controlled Thermal Expansion  $\beta$ -Eucryptite Materials. *International Journal Applied Ceramic Tech.*, 12 (S2) E187-E193 (2015)

GARCÍA-MORENO, O.; ÁLVAREZ, W.; SAEKOW, R. Y SHIMABUKURO, D. H. Introducción a La gran historia: la historia del Cosmos, la Tierra, la Vida y la Humanidad. *Enseñanza de las Ciencias de la Tierra*. 22.2: 140-146 (2014)

BENAVENTE, R.; BORRELL, A.; SALVADOR, M.D.; GARCÍA-MORENO, O.; PEÑARANDA-FOIX, F.L.; CATALÁ-CIVERA, J. M. Propiedades mecánicas y coeficiente de dilatación térmica de la  $\beta$ -eucryptita sinterizada por la técnica de microondas. *Bol. Soc. Esp. Cer. Vid.* 53, 3, 133-138 (2014)

BENAVENTE, R., BORRELL, A., SALVADOR, M.D., GARCÍA-MORENO, O., PEÑARANDA-FOIX, F.L., CATALÁ-CIVERA, J.M. Fabrication of near-zero thermal expansion of fully dense  $\beta$ -eucryptite ceramics by microwave sintering. *Ceramics International*. 40(1-Part A), 935-941 (2014)

GARCÍA-GUINEA, J.; TORMO, L.; RUBIO-ORDÓÑEZ, A.; GARCÍA-MORENO, O. Combined use of Non-Destructive Techniques for a Microstructural Study on the Historical Meteorite Madrid. *TALANTA*, 114, 152-159 (2013)

GARCÍA-MORENO, O.; KRIVEN, W; MOYA, J. S.; TORRECILLAS, R. Alumina region of the lithium aluminosilicate system: a new window for nearly zero expansion materials. *Jour. Am. Cer. Soc.*, 96(7), 2039-2041 (2013)

DE LA IGLESIA, P.G.; GARCÍA-MORENO, O.; TORRECILLAS, R.; MENÉNDEZ, JL. Influence of different parameters on calcium hexaluminate reaction sintering by Spark Plasma. *Ceramics International*, 38(7), 5325–5332 (2012)

GARCÍA-MORENO, O.; FERNANDEZ, A.; TORRECILLAS, R. Sintering of Mullite – Beta- Eucryptite ceramics with very low thermal expansion. *Inter. J. Mat. Res.* 103(4), 416-421 (2012)

BORRELL, A., GARCÍA-MORENO, O.; TORRECILLAS, R.; ROCHA, V.; FERNANDEZ, A. Lithium aluminosilicate reinforced with carbon nanofiber and alumina for controlled thermal expansion materials. *Science and Technology of Advanced Materials*, 13(1). (2012).

DE LA IGLESIA, P.G.; GARCÍA-MORENO, O.; TORRECILLAS, R.; MENÉNDEZ, JL. Sinterización reactiva en el sistema  $\text{CaO-Al}_2\text{O}_3$  mediante Spark Plasma Sintering. *Bol. Soc. Esp. Cer. Vid.* 51, 217-221 (2012)

GARCÍA-MORENO, O.; KHAINAKOV, S.; TORRECILLAS, R. Comportamiento de la eucryptita a alta temperatura mediante estudio in situ por difracción de rayos X. *Bol. Soc. Esp. Cer. Vid.* 51, 3, 145-150 (2012)

RUBIO-ORDÓÑEZ, A.; GARCÍA-MORENO, O.; GARCÍA-ARIAS, M.; GONZÁLEZ-GARCÍA, D.; CORRETGÉ, L. G. The Variscan Cabeza de Araya Batolith and the Ordovician pluton of Zarza la Mayor. *Guía de campo VII Hutton Meeting*, (2011)

GARCÍA-MORENO, O.; FERNANDEZ, A.; TORRECILLAS, R. Solid state sintering of very low and negative thermal expansion ceramics by Spark Plasma Sintering. *Ceramics Internacional*, 37/3: 1079-1083 (2011)

GARCÍA-MORENO, O.; BORRELL, A., BITTMANN, B.; FERNANDEZ, A.; TORRECILLAS, R. Alumina reinforced eucryptite ceramics: very low thermal expansion material with improved mechanical properties. *Jour. Europ. Ceram. Soc.* 31, 1641-1648. (2011).

GARCÍA-MORENO, O.; FERNANDEZ, A.; TORRECILLAS, R. Conventional sintering of LAS-SiC nanocomposites with null thermal expansion coefficient. *Jour. Europ. Ceram. Soc.*30, 3219–3225(2010)

GARCÍA-MORENO, O.; FERNANDEZ, A.; KHAINAKOV; S.; TORRECILLAS, R. Negative thermal expansion of lithium aluminosilicate ceramics at cryogenic temperatures. *Scripta Materialia* 63, 170-3 (2010)

GARCÍA-MORENO, O.; CORRETGÉ, L. G. y CASTRO, A. Processes of assimilation in the genesis of cordierite leucomonzogranites from the Iberian Massif: a short review. *Canadian Mineralogist*, 45/1, 71-85 (2007)

GARCÍA-MORENO, O.; CASTRO, A.; CORRETGÉ, L. G.; EL-HMIDI, H. Dissolution of tonalitic enclaves in ascending hydrous granitic magmas: an experimental study. *Lithos*, 89(3-4) 245-258 (2006)

GARCIA-MORENO, O. Estudio experimental de las relaciones texturales y de fases en granitos peraluminicos de la serie mixta del Macizo Ibérico. El caso de Cabeza de Araya (Cáceres) *Macla* 1, 64-66 (2004)

CORRETGÉ, L. G.; CASTRO, A.; GARCÍA-MORENO, O. Granitoides de la “serie mixta”. *Geología de España* (Editor Principal J. A. Vera). SGE-IGME. Madrid. 115-116 (2004).

CASTRO, A.; CORRETGÉ, L. G.; DE LA ROSA, J. D.; FERNÁNDEZ, C.; LÓPEZ, S.; GARCÍA-MORENO, O. Y CHACÓN, H. The appinite-migmatite complex of Sanabria, NW Iberian massif, Spain. *Journal of Petrology*, 44(7): 1309-1344 (2003).

#### **Member of the Associations:**

Sociedad Geológica de España

Sociedad Española de Mineralogía

International Big History Association

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