

Ángel Triviño Peláez

FPI PhD contract

[Ceramics and Glass Institute](#)

[Consejo Superior de Investigaciones Científicas \(CSIC\)](#)

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Education

Master in Chemical Engineering, [Universidad Autónoma de Madrid](#) (2016)

BSc Chemical Engineering, Universidad Rey Juan Carlos (2015)

Former positions

Researcher fellow, [Instituto de Cerámica y Vidrio \(CSIC\)](#) (Spain) (2015-2016)

Researcher fellow, Centro Tecnológico de Repsol (CTR), Repsol (Móstoles, Madrid Spain) (2015)

Current Position

PhD FPI Student in the Ceramic and Glass Institute (ICV-CSIC) of Madrid. PhD programme: “Química Aplicada” of the Universidad Autónoma de Madrid (UAM).

Thesis: Celdas electroquímicas estabilizadas con haluros para una conversión y producción optimizada de hidrógeno.

Supervisor: Dra. Jadra Mosa Ruíz y Dr. Glenn Christopher Mather

Research interests

My short experience is based on manufacturing of proton conducting ceramic materials for solid oxide fuel cells: anode, electrolyte and cathodes by wet chemistry methods like sol-gel, Pechini, citrate/nitrate modified and other type of synthesis like solid state reactions and mechanochemistry as well as structural (FT-IR, TEM, XRD, etc.) and electrochemical characterization (EIS) of the materials and its behavior at different relevant atmospheres for solid oxide fuel cells (SOFC).

Memberships

Sociedad Española de Cerámica y Vidrio (SECV)

Asociación Madrileña de Ingenieros Químicos (AMIQ)

Selected publications

Effects of Br addition on the structure, stability and electrical properties of proton-conducting $\text{BaCe}_{0.8}\text{Y}_{0.2}\text{O}_{3-\delta}$

Ángel Triviño-Peláez, Domingo Pérez-Coll, Glenn C. Mather, Acta Materialia (sent)

Sol-gel synthesis of $\text{SrZr}_{0.9}\text{Y}_{0.1}\text{O}_{3-\delta}$ thin films for protonic ceramic electrolyser membranes

Jadra Mosa, Ángel Triviño-Peláez, Domingo Pérez-Coll, Glenn C. Mather, Mario Aparicio (in progress)