



Università
Ca' Foscari
Venezia

Global@Venice

Post-doc Fellowship at Ca' Foscari University of Venice

“Expression of Interest” for Global at Venice - call 2021

1. Interested institution (legal person):

Ca' Foscari University of Venice

2. Department/Centre:

Department of Molecular Sciences and Nanosystems (DSMN).

DSMN is composed mainly by experimentalists whose research is at the interface of Chemistry/Physics and Materials Science with a strong focus on the Horizon Europe Pillars, including the development of materials and technologies described in Sustainable Development Goals 6 and 7 of 2030 Agenda.

3. Position, scientific requirements, topic, scientific panel:

Position:

Post-doc Position

Scientific requirements:

PhD in Chemical Sciences, Materials Science and Engineering.

The fellow should have strong background in the synthesis of inorganic nanomaterials through various bottom-up and top-down routes; expertise in physico-chemical and optical characterization, and in photochemistry.

The fellow should have strong leadership and teamworking abilities, research independence and a strong international experience.

Topics:

We are interested in proposals in one of the following Scientific Panels covering the following topics:

- 1) development of nanostructured oxides doped with transition metals and rare earth elements (powders, thin films, nanowires) through engineered electronic band structure, for photodetection and light photo-conversion;
- 2) titania-based homo and heterojunctions for the photodegradation of drugs and dyes for the wastewater treatment;
- 3) design and characterization of 0-3D multi-component photoactive nanosystems for the CO abatement under solar light irradiation (photo-CO PROX).

Scientific Panel:

X PE - Physical Sciences and Engineering

LS - Life Sciences

SH - Social Sciences and Humanities

4. Contact person:

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