

We are seeking for a postdoctoral researcher!

Topic: Design, synthesis and characterization of large aromatic molecules and nanographenes

The research will be performed in the framework of **ERC Synergy Grant MolDAM** (Molecular Devices by Atom Manipulation). MolDAM is an interdisciplinary project co-led by the CiQUS PI, Prof. Diego Peña, at the USC, jointly with the specialist in Atomic Force Microscopy (AFM) Dr Leo Gross at IBM Research (Switzerland) and Prof. Jascha Repp at the Universität Regensburg (Germany). MolDAM aims at building and controlling individual molecules through their manipulation with AFM.



Research Group:

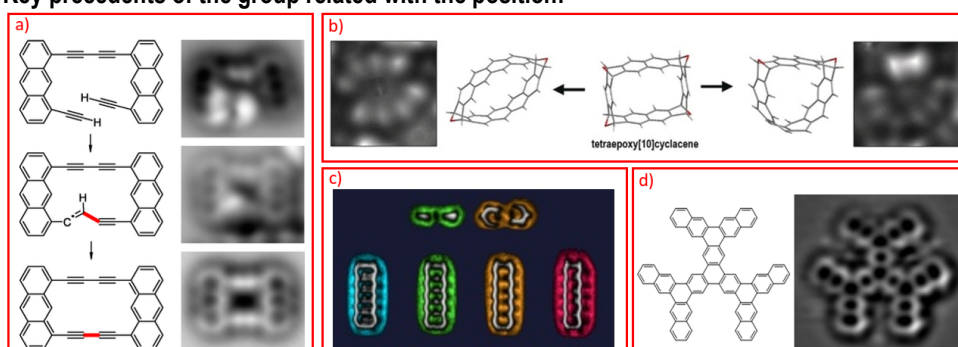
[Prof. Diego Peña](#)

Center for Research in Biological Chemistry and Molecular Materials (CiQUS), University of Santiago de Compostela (Spain)

<http://webspersoais.usc.es/persoais/diego.pena/>

<https://www.usc.es/ciqus/en/groups/commo>

Key precedents of the group related with the position:



a) *Intramolecular coupling of terminal alkynes by atom manipulation*

F. Albrecht, D. Rey, S. Fatayer, D. Pérez, D. Peña, L. Gross

Angew. Chem. Int. Ed. **2020**, 59, 22989

b) *Exploring a route to cyclic acenes by on-surface synthesis*

F. Schulz, F. García, K. Kaiser, D. Pérez, E. Guitián, L. Gross, D. Peña

Angew. Chem. Int. Ed. **2019**, 58, 9038

c) *Molecular structure elucidation with charge-state control*

S. Fatayer, F. Albrecht, Y. Zhang, D. Urbonas, D. Peña, N. Moll, L. Gross

Science **2019**, 365, 142

d) *[19]Dendriphene: A 19-ring dendritic nanographene*

M. Vilas-Varela, S. Fatayer, Z. Majzik, D. Pérez, E. Guitián, L. Gross, D. Peña

Chem. Eur. J. **2018**, 24, 17697

We are looking for a proactive, independent, and enthusiastic researcher with experience in synthetic organic chemistry and interest in molecular materials and on-surface synthesis.

Duration of Contract: 1 year (extendable for three more years)

Applications should be sent by email to Prof. Diego Peña (diego.pena@usc.es) including, in one single PDF file:

1) Motivation letter

2) Brief CV

3) Contact details of two referees

Deadline for application: 7th October 2021