

CiQUS Lecture



Electroactive Molecular Materials for Electronics: From Donor-Acceptor Dyads to Redox-Active Porous Frameworks

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Thursday, February 17, 2022
5 p.m. CiQUS Seminar Room & Zoom Session

FONDO EUROPEO DE DESENVOLVIMENTO REGIONAL
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Link to personal website: <http://www.ciceco.ua.pt/manuelsouto>

Biosketch:

Manuel Souto Salom (Valencia, 1988) is an Assistant Professor at the Department of Chemistry of the University of Aveiro and CICECO-Aveiro Institute of Materials. He holds a double degree in Chemistry and Chemical Engineering from the University of Valencia (Spain) and from the École de Chimie, Polymères et Matériaux (ECPM) de Strasbourg (France), respectively, doing a research internship at PLAPIQUI (Argentina). He also earned a Master's degree in Molecular and Supramolecular Chemistry from the University of Strasbourg conducting his Master thesis at Instituto Superior Técnico (IST, Lisbon). In 2016, he obtained his PhD in Materials Science (triple award-winning thesis) at Institut de Ciència de Materials de Barcelona (ICMAB-CSIC) under the supervision of Prof. J. Veciana developing new molecular materials based on organic radicals for different applications in electronics (molecular switches, conductors and rectifiers) conducting two research stays at the National University of Singapore (NUS, Prof. C. Nijhuis group) and at the University of Antwerp. In 2017, he started to work as postdoctoral researcher (Juan de la Cierva fellowship) in the group of Dr. G. Mínguez and Prof. E. Coronado at the Institute of Molecular Science (ICMol-University of Valencia) designing new TTF-based Metal-Organic Frameworks (MOFs). Since 2019 he has been an Assistant Professor at the University of Aveiro. In 2022, he was awarded an ERC Starting Grant (ERC-StG-2021) with the project ELECTROCOFS. His main current research interest is the design and synthesis of new functional electroactive porous frameworks (MOFs & COFs) based on redox-active building blocks for different applications in electronics. He is first author and/or corresponding author on 18 of 31 scientific articles in international peer-reviewed multidisciplinary high impact journals and has contributed to about 20 international/national conferences.