

Nombre y apellidos: Francisco Carrasco Marín

Catedrático

Departamento de Química Inorgánica

Facultad de Ciencias

Avenida de Fuente Nueva S/N

Universidad de Granada

Granada E-18071

España



Teléfono: +34 958242396

Correo electrónico: fmarin@ugr.es**Links:**Página web personal: https://carbon.ugr.es/~fcarrasco/datos_personales/

Reseña en UGR Livemetrics:

http://investigacion.ugr.es/ugrinvestiga/static/Buscador/*/investigadores/ficha/22411ORCID: <https://orcid.org/0000-0002-2516-7806>Researcher ID: <http://www.researcherid.com/rid/B-6699-2008>ResearchGate: https://www.researchgate.net/profile/Francisco_Carrasco-Marin/scoresGoogle Scholar: <https://scholar.google.es/citations?user=Xg6POw4AAAAJ&hl=es>

Twitter

LinkedIn

Breve historial: Aproximadamente 250-300 palabras

Prof. Dr. Francisco Carrasco Marín holds a degree in Chemistry from the University of Granada (July 1984). He obtained the degree of Doctor in November of 1988 with the qualification of Apto "Cum Laude", being Extraordinary Doctorate Award of the University of Granada in the biennium 1987-1989. After a postdoctoral stay funded by the MEC, in the Department of Materials Science and Engineering (Pennsylvania State University, USA), during the 1989-1990 course, he has held various positions in the universities of Jaén and Granada since 1990. Associate Professor of the University of Jaén in 1993, on leave since 1994, Associate Professor of the University of Granada since 1996 and Full Professor of this University since 2009. Member of the Carbon Materials Research Group (RNM-172) of the Junta de Andalucía since its creation in 1988 and from September 2018 chair of the aforementioned group. Currently, within this group, Prof. Carrasco has developed the research line, "carbon materials for their use as supercapacitor electrodes and as catalysts for O₂ and CO₂ electroreduction". He has participated in 40 research projects (regional, national and European), 3 of them as Responsible Investigator. He has published, to date, 150 articles in international journals, with 5148 citations (index h: 35), in addition to several chapters in popular science books and has presented 183 communications to national and international congresses. He has directed twelve Ph. D. Theses and another four in progress. Member of the Organizing Committee and Chairman of Scientific Committee of CARBON'2018, Chairman of the Local Committee for the organization of the COPS X congress, 10th International Symposium on the Characterization of Porous Solids (2014), Chair of the Organizing Committee of the XXXIX Iberian Adsorption Meeting (2014) and Secretary of the Organizing Committee of the VIII Spanish Carbon Group Meeting (2005). He has given 12 conferences and plenary lectures in Congress, Workshops and Universities in Spain, Italy, Colombia and Mexico. He is co-author of 2 international patents. Member of the group of evaluators of Research Projects of FONCyT, Argentina (2007) Colciencias, Colombia (2010) and

ANEP, Spain (2008, 2012, 2014). He occupies the 56th position of the global ranking of researchers of the UGR and 3rd in the area of Inorganic Chemistry (January 2018).

For the last years his research has focused on the preparation of advanced carbon materials, through the polycondensation of various aromatic monomers with formaldehyde and from agricultural waste and their applications as catalysts, in decontamination processes and in energy applications such as energy storage in supercapacitors and as catalysts in O₂ and CO₂ electroreduction. He is member of the Spanish Carbon Group, vice-president of its Board of Directors, member of the Spanish Catalysis Society and of the Specialized Group of Adsorption of the Royal Spanish Society of Chemistry, member of its Governing Board.

Docencia:

Grado: Óptica y Optometría-Química

Master: Khemia

Investigación:

Líneas de Investigación: Advanced carbon materials, carbon-based composites, monoliths, coatings, porosity, VOC combustion, selective hydrogenation, catalytic electroreduction of CO₂ and O₂, energy storage

Publicaciones más relevantes:

1. Ana I. Zárate-Guzmán, Linda V. González-Gutiérrez, Luis A. Godínez, Alejandro Medel-Reyes, **Francisco Carrasco-Marín**, Luis A. Romero-Cano. "Towards understanding of heterogeneous Fenton reaction using carbon-Fe catalysts coupled to in-situ H₂O₂ electro-generation as clean technology for wastewater treatment". *Chemosphere* 224, 698-706, 2019
2. Esther Bailón-García, Francisco J. Maldonado-Hódar, **Francisco Carrasco-Marín**, Agustín F. Pérez Cadenas, Susanna Bosi, Maurizio Prato. "The use of functionalized carbon xerogels in cells growth". *Materials Science and Engineering C* 100, 598-607, 2019
3. Abdelhakim Elmouwahidi, Esther Bailón-García, Agustín F. Pérez-Cadenas, Jesica Castelo-Quibén, **Francisco Carrasco-Marín**. "Carbon-vanadium composites as non-precious catalysts for electro-reduction of oxygen". *Carbon* 144, 289-300, 2019
4. Hesham Hamad, Esther Bailón-García, Francisco J. Maldonado-Hódar, Agustín F. Pérez-Cadenas, **Francisco Carrasco-Marín**, Sergio Morales-Torres. Synthesis of Ti_xO_y nanocrystals in mild synthesis conditions for the degradation of pollutants under solar light. *Applied Catalysis B: Environmental* 241, 385–392, 2019.
5. Elmouwahidi, E. Bailón-García, A.F. Pérez-Cadenas, N. Fernández-Sáez, F. Carrasco-Marín. "Development of Vanadium-Coated Carbon Microspheres: Electrochemical Behavior as Electrodes for Supercapacitors". *Advanced Functional Materials*, vol 28(35), 1802337, 2018.
6. Elmouwahidi, E. Bailón-García, J. Castelo-Quibén, A.F. Pérez-Cadenas, F.J. Maldonado-Hódar, **F. Carrasco-Marín**. Carbon–TiO₂ composites as high-performance supercapacitor electrodes: synergistic effect between carbon and metal oxide phases. *Journal of Materials Chemistry A*, 6(2), 633-644, 2018
7. Elmouwahidi, J. Castelo-Quibén, J.F. Vivo-Vilches, A.F. Pérez-Cadenas, F.J. Maldonado-Hódar, **F. Carrasco-Marín**. Activated carbons from agricultural waste solvothermally doped with sulphur as electrodes for supercapacitors. *Chemical Engineering Journal*, 334, 1835-1841, 2018