Functionalized low-cost graphene sponge electrodes for sustainable water treatment and complete defluorination of per- and polyfluoroalkyl substances (PFAS) FOCUS4PFAS

**Fact Sheet**

**Project Information**

**FOCUS4PFAS**

Grant agreement ID: 101062078

**DOI**

[10.3030/101062078](10.3030/101062078)

**Funded under**

Marie Skłodowska-Curie Actions (MSCA)

**Total cost**

€ 0,00

**EU contribution**

€ 165 312,96

**Coordinated by**

FUNDACIO INSTITUT CATALA DE RECERCA DE L'AIGUA

Spain

**Start date**

1 July 2023

**End date**

30 June 2025

**Objective**

The presence of toxic, carcinogenic and bioaccumulative per- and polyfluoroalkyl substances (PFAS) in our water cycle is one of the major challenges that the humanity is facing in the 21st century, and there are no established (waste)water treatment technologies capable of their degradation. Here, we will address this challenge by developing low-cost graphene sponge electrodes tailored to achieve efficient electrosorption/adsorption and subsequent electrochemical degradation of
PFAS. Emphasis will be placed on the removal and degradation of more polar, shorter-chain (e.g.

**Fields of science**

- natural sciences > chemical sciences > electrochemistry
- engineering and technology > nanotechnology > nano-materials > two-dimensional nanostructures > graphene

**Programme(s)**

HORIZON.1.2 - Marie Skłodowska-Curie Actions (MSCA)  
MAIN PROGRAMME

**Topic(s)**

HORIZON-MSCA-2021-PF-01-01 - MSCA Postdoctoral Fellowships 2021

**Call for proposal**

HORIZON-MSCA-2021-PF-01

See other projects for this call

**Funding Scheme**

HORIZON-AG-UN - HORIZON Unit Grant

**Coordinator**

FUNDACIO INSTITUT CATALA DE RECERCA DE L'AIGUA

Net EU contribution

€ 165 312,96

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2 of 3
Region
Este > Cataluña > Girona

Activity type
Research Organisations

Links
Contact the organisation
Website
Participation in EU R&I programmes
HORIZON collaboration network

Other funding
€ 0,00

EC signature date 22 June 2022
Last update: 16 August 2022

Permalink: https://cordis.europa.eu/project/id/101062078

European Union, 2023