



Upscaling of fluorographene chemistry for supercapacitor electrode material

Fact Sheet

Project Information

UP2DCHEM

Grant agreement ID: 899245

DOI

[10.3030/899245](https://doi.org/10.3030/899245)

Project closed

EC signature date

5 March 2020

Start date

1 April 2020

End date

30 September 2021

Funded under

EXCELLENT SCIENCE - European Research Council (ERC)

Total cost

No data

EU contribution

€ 150 000,00

Coordinated by

UNIVERZITA PALACKEHO V
OLOMOUCI



Czechia

Project description

Graphene derivatives could be the key to superior supercapacitors

Capacitors and batteries store energy and release it as needed, supporting our transition from fossil fuels to intermittent renewable energy. As the global energy demand continues to increase, these devices will help us power the explosion of portable devices and sensors at the edge of the internet. Supercapacitors are superior to batteries in many ways but, although they store more energy than conventional capacitors, they lose the race by a wide margin when it comes to batteries. The EU-funded UP2DCHEM project will upscale the manufacture of a novel graphene derivative for supercapacitor electrodes that could change all that, putting these smaller and more robust storage devices in a leading position.

Fields of science (EuroSciVoc)

[engineering and technology](#) > [mechanical engineering](#) > **[manufacturing engineering](#)**

[engineering and technology](#) > [environmental engineering](#) > [energy and fuels](#) > **[renewable energy](#)**

[engineering and technology](#) > [nanotechnology](#) > [nano-materials](#) > [two-dimensional nanostructures](#) > **[graphene](#)**

[engineering and technology](#) > [electrical engineering, electronic engineering, information engineering](#) > [electronic engineering](#) > **[sensors](#)**

[engineering and technology](#) > [environmental engineering](#) > [energy and fuels](#) > **[fuel cells](#)**



Programme(s)

[H2020-EU.1.1. - EXCELLENT SCIENCE - European Research Council \(ERC\)](#)

MAIN PROGRAMME

Topic(s)

[ERC-2019-POC - ERC Proof of Concept Grant](#)

Call for proposal

[ERC-2019-PoC](#) 

[See other projects for this call](#)

Funding Scheme

[ERC-POC-LS - ERC Proof of Concept Lump Sum Pilot](#)

Host institution



UNIVERZITA PALACKÉHO V OLOMOUCI

Net EU contribution

€ 150 000,00

Total cost

No data

Address

KRIZKOVSKÉHO 8

771 47 Olomouc

 **Czechia** 

Region

Česko > Střední Morava > Olomoucký kraj

Activity type

Higher or Secondary Education Establishments

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Beneficiaries (1)



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Total cost

No data

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