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ORDERED INORGANIC-ORGANIC HYBRIDS USING IONIC LIQUIDS FOR EMERGING APPLICATIONS

Fact Sheet

Project Information

ORION

Grant agreement ID: 229036

[Project website](#) 

Project closed

Start date

1 October 2009

End date

30 September 2013

Funded under

Specific Programme "Cooperation": Nanosciences, Nanotechnologies, Materials and new Production Technologies

Total cost

€ 9 750 049,13

EU contribution

€ 6 896 960,00

Coordinated by

FUNDACION CIDETEC



Spain

This project is featured in...



Can Hydrogen revolutionise our lifestyles?

Objective

ORION puts together a multidisciplinary consortium of leading European universities, research institutes and industries with the overall goal of advancing the fabrication of inorganic-organic hybrid materials using ionic liquids. Maximum research efforts within ORION will be addressed to achieve inorganic-organic hybrids with an ordered nanostructure and to understand and characterize the new generation of inorganic-organic hybrids. ORION aims to take advantage of the properties of Ionic Liquids as templating supramolecular solvents in the synthesis of novel hybrid materials. Additionally, the use of ILs will bring innovative properties to the hybrid materials due to their intrinsic wide electrochemical window and high ionic conductivity and hence this method will generate radically new materials. The new ordered inorganic-organic hybrids will be morphologically and electrochemically characterized with emphasis on their potential application in batteries, innovative solar cells and gas sensors. By reaching this ambitious goal, ORION will pave the way towards inorganic-organic hybrid products for chemical, materials, energy and sensor industries.

Fields of science (EuroSciVoc)

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



Programme(s)

[FP7-NMP - Specific Programme "Cooperation": Nanosciences, Nanotechnologies, Materials and new Production Technologies](#)

Topic(s)

Call for proposal

FP7-NMP-2008-LARGE-2

[See other projects for this call](#)

Funding Scheme

[CP-IP - Large-scale integrating project](#)

Coordinator



FUNDACION CIDETEC

EU contribution

€ 839 093,00

Total cost

No data

Address

PASEO MIRAMON 196 PARQUE TECNOLOGICO DE MIRAMON
20014 San Sebastian

 Spain 

Region

Noreste > País Vasco > Gipuzkoa

Activity type

Research Organisations

Links

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

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

[HORIZON collaboration network](#) 

Participants (17)



CONSIGLIO NAZIONALE DELLE RICERCHE



Italy

EU contribution

€ 416 900,00

Address

PIAZZALE ALDO MORO 7

00185 Roma 

Region

Centro (IT) > Lazio > Roma

Activity type

Research Organisations

Links

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

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

[HORIZON collaboration network](#) 

Total cost

No data



COMMISSARIAT A L ENERGIE ATOMIQUE ET AUX ENERGIES ALTERNATIVES



France

EU contribution

€ 633 625,00

Address

RUE LEBLANC 25

75015 PARIS 15 

Region

Ile-de-France > Ile-de-France > Paris

Activity type

Research Organisations

Links

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

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

[HORIZON collaboration network](#) 

Total cost

No data



Westfälische Wilhelms-Universität Münster

 Germany

EU contribution

€ 483 540,00

Address

SCHLOSSPLATZ 2

48149 MUENSTER 

Region

Nordrhein-Westfalen > Münster > Münster, Kreisfreie Stadt

Activity type

Higher or Secondary Education Establishments

Links

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

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

[HORIZON collaboration network](#) 

Total cost

No data



INTERUNIVERSITAIR MICRO-ELECTRONICA CENTRUM

 Belgium

EU contribution

€ 604 061,00

Address

KAPELDREEF 75

3001 Leuven 

Region

Vlaams Gewest > Prov. Vlaams-Brabant > Arr. Leuven

Activity type

Research Organisations

Links

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

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

[HORIZON collaboration network](#) 

Total cost

No data



USTAV FYZIKALNI CHEMIE J. HEYROVSKEHO AV CR, v. v. i.

Czechia

EU contribution

€ 273 600,00

Address

DOLEJSKOVA 2155/3

182 00 PRAHA

Region

Česko > Praha > Hlavní město Praha

Activity type

Other

Links

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

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

[HORIZON collaboration network](#)

Total cost

No data



ECOLE POLYTECHNIQUE FEDERALE DE LAUSANNE

Switzerland

EU contribution

€ 485 565,00

Address

BATIMENT CE 3316 STATION 1

1015 Lausanne

Region

Schweiz/Suisse/Svizzera > Région lémanique > Vaud

Activity type

Higher or Secondary Education Establishments

Links

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

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

Total cost

No data



UNIVERSITAT DE VALENCIA

 Spain

EU contribution

€ 349 200,00

Address

AVENIDA BLASCO IBANEZ 13
46010 Valencia 

Region

Este > Comunitat Valenciana > Valencia/València

Activity type

Higher or Secondary Education Establishments

Links

- [Contact the organisation](#) 
- [Website](#) 
- [Participation in EU R&I programmes](#) 
- [HORIZON collaboration network](#) 

Total cost

No data



CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE CNRS

 France

EU contribution

€ 362 400,00

Address

RUE MICHEL ANGE 3
75794 Paris 

Region

Ile-de-France > Ile-de-France > Hauts-de-Seine

Activity type

Research Organisations

Links

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

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

[HORIZON collaboration network](#) 

Total cost

No data



UNIVERSITAT JAUME I DE CASTELLON

 Spain

EU contribution

€ 350 090,00

Address

AVENIDA VICENT SOS BAYNAT S/N
12006 Castellon De La Plana 

Region

Este > Comunitat Valenciana > Castellón/Castelló

Activity type

Higher or Secondary Education Establishments

Links

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

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

[HORIZON collaboration network](#) 

Total cost

No data



JOHNSON MATTHEY PLC

 United Kingdom

EU contribution

€ 396 715,00

Address

2 GRESHAM STREET, 5TH FLOOR
EC2V 7AD LONDON 

Region

London > Inner London — West > Camden and City of London

Activity type

Private for-profit entities (excluding Higher or Secondary Education Establishments)

Links

- [Contact the organisation](#)
- [Website](#)
- [Participation in EU R&I programmes](#)
- [HORIZON collaboration network](#)

Total cost

No data



SOLVIONIC

France

EU contribution

€ 204 870,00

Address

11 CHE DES SILOS
31100 Toulouse

Region

Occitanie > Midi-Pyrénées > Haute-Garonne

Activity type

Private for-profit entities (excluding Higher or Secondary Education Establishments)

Links

- [Contact the organisation](#)
- [Website](#)
- [Participation in EU R&I programmes](#)
- [HORIZON collaboration network](#)

Total cost

No data



CENTRO RICERCHE FIAT SCPA

Italy

EU contribution

€ 300 650,00

Address

STRADA TORINO 50
10043 Orbassano

Region

Activity type

Research Organisations

Links

- [Contact the organisation](#)
- [Website](#)
- [Participation in EU R&I programmes](#)
- [HORIZON collaboration network](#)

Total cost

No data



NANOCO TECHNOLOGIES LTD

United Kingdom

EU contribution

€ 217 500,00

Address

Grafton Street 46
M13 9NT MANCHESTER

Activity type

Private for-profit entities (excluding Higher or Secondary Education Establishments)

Links

- [Contact the organisation](#)
- [Website](#)
- [Participation in EU R&I programmes](#)
- [HORIZON collaboration network](#)

Total cost

No data



CELAYA,EMPARANZA Y GALDOS INTERNACIONAL SA

Spain

EU contribution

No data

Address

CALLE ARTAPADURA 11
01013 VITORIA

Activity type

Private for-profit entities (excluding Higher or Secondary Education Establishments)

Links

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

Total cost

No data



SOLARONIX SA

Switzerland

EU contribution

€ 268 541,00

Address

CHEMIN DE L'OURIETTE 129
1170 Aubonne



Region

Schweiz/Suisse/Svizzera > Région lémanique > Vaud

Activity type

Private for-profit entities (excluding Higher or Secondary Education Establishments)

Links

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

Total cost

No data



UNIVERSITE DE MONS

Belgium

EU contribution

€ 388 000,00

Address

PLACE DU PARC 20
7000 Mons



Region

Activity type

Higher or Secondary Education Establishments

Links

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

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

[HORIZON collaboration network](#)

Total cost

No data



CELAYA EMPARANZA Y GALDOS SA

Spain

EU contribution

€ 322 610,00

Address

CALLE ARTAPADURA 11
01013 VITORIA ALAVA

Activity type

Private for-profit entities (excluding Higher or Secondary Education Establishments)

Links

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

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

[HORIZON collaboration network](#)

Total cost

No data

Last update: 6 September 2024

Permalink: <https://cordis.europa.eu/project/id/229036>

European Union, 2025