Metal directed self-assembly of nanoscale polymetallic architectures

Fact Sheet

Project Information

Grant agreement ID: HPMF-CT-2002-01623

Project closed

Start date
15 January 2002

End date
14 January 2004

Funded under
Programme for research, technological development and demonstration on "Improving the human research potential and the socio-economic knowledge base" (1998-2002)

Total cost
€ 114 272,00

EU contribution
€ 114 272,00

Coordinated by
THE CHANCELLOR, MASTERS AND SCHOLARS OF THE UNIVERSITY OF OXFORD
United Kingdom

Objective

Metal templated self-assembly of macrocyclic and cage-like receptor of nanoscale dimensions is an area of intense research activity. The design and synthesis of cavities such as differently fictionalized resorcarenes and calix[4]arenes, combined with self-assembly of these macrocyclic receptors using coordination chemistry

methodology will yield new host structures in which a variety of guests will be tested in organic and aqueous media. Changing the shape of the cavity and but maintaining the same assembling methodology we will face the synthesis or molecular ladders and helicates. All these systems including a proper optical or electrochemical sensor as part of the structure will offer a good way of sensing guest species.

Fields of science (EuroSciVoc)

natural sciences > chemical sciences > organic chemistry > **hydrocarbons**

engineering and technology > electrical engineering, electronic engineering, information engineering > electronic engineering > **sensors**

Programme(s)

FP5-HUMAN POTENTIAL - Programme for research, technological development and demonstration on "Improving the human research potential and the socio-economic knowledge base" (1998-2002)

Topic(s)

Data not available

Call for proposal

Data not available

Funding Scheme

RGI - Research grants (individual fellowships)

Coordinator

THE CHANCELLOR, MASTERS AND SCHOLARS OF THE UNIVERSITY OF OXFORD

EU contribution

No data

Total cost

No data

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