Diethynylmetallacyclopentadienes - Investigations of a new class of luminescent organometallics

Reporting

Project Information

LUMINESCENT M-CYCLES

Grant agreement ID: 236612

Status
Closed project

Start date 1 July 2009
End date 30 June 2010

Funded under
FP7-PEOPLE

Overall budget
€ 0

EU contribution
€ 87,067,84

Coordinated by
UNIVERSITY OF DURHAM
United Kingdom

Final Report Summary - LUMINESCENT M-CYCLES
(Diethynylmetallacyclopentadienes - Investigations of a new class of luminescent organometallics)

The objectives of the project “Luminescent M-Cycles” were to synthesise and investigate the photophysical properties of a new class of luminescent materials, 2,5-bis(p-Rarylethynyl) metallacyclopentadienes. The influence of different substituents and donor ligands and the incorporation of heavier metal atoms, such as Ir, which was expected to increase the intersystem-crossing rates and thus the efficiency of phosphorescence, was explored. Detailed photophysical studies and theoretical methods were used to obtain a better understanding of the novel photophysical properties of our compounds.

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