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Review

Lanthanide-based self-assemblies of 2,6-pyridyldicarboxamide ligands: recent advances and applications as next-generation luminescent and magnetic materials

Jonathan A. Kitchen

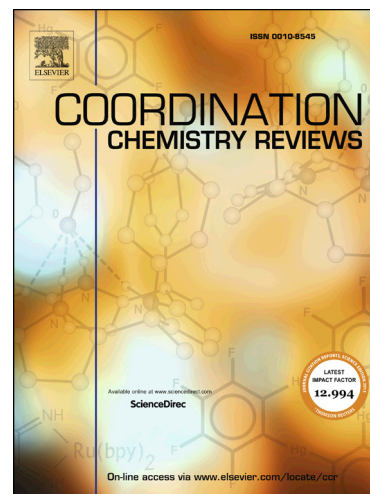
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Lanthanide-based self-assemblies of 2,6-pyridyldicarboxamide ligands: recent advances and applications as next-generation luminescent and magnetic materials

Jonathan A. Kitchen^{a,*}

^a Chemistry, University of Southampton, Highfield Campus, Southampton SO17
1BJ, United Kingdom
j.a.kitchen@soton.ac.uk

Abstract

The lanthanide-based coordination chemistry of ligands containing 2,6-pyridyldicarboxamide moieties over the last decade is reviewed. The review covers metallosupramolecular assemblies based on mononuclear, dinuclear and higher order systems.

Abbreviations: pdc, 2,6-pyridyldicarboxamide; dpa, 2,6-dipicolinic acid; SMM, Single Molecule Magnet; RCM, ring-closing metathesis; NMR, Nuclear Magnetic Resonance; CPL, Circularly Polarised Luminescence; MS, Mass Spectrometry; CD, Circular Dichroism; PEG, Polyethylene glycol; DMF, Dimethylformamide; SAXS, Small Angle X-ray Scattering; LB, Langmuir Blodgett; MRI, Magnetic Resonance Imaging.

Keywords: Lanthanide, 2,6-pyridyldicarboxamide, supramolecular, luminescence, self-assembly, magnetism

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