

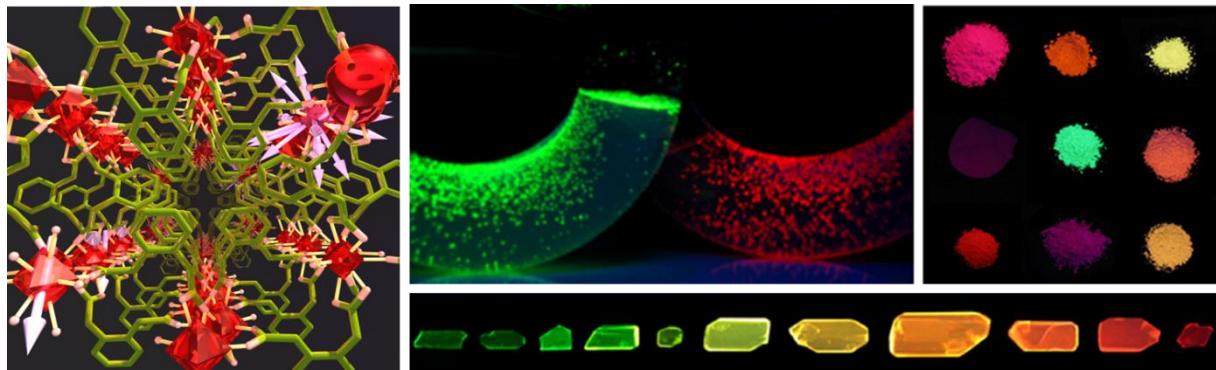
# Playing with Lanthanide Ions: From Single-Molecule Magnets to Luminescent Anti-counterfeiting Taggants

**Kevin Bernot**

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Lanthanide Coordination Chemistry us a useful tool to synthesize a very rich variety of molecular materials from the most simple (isolated molecule) to the most elaborated (extended network of functional molecules).

In this presentation these concepts will be illustrated trough recent examples from our teams in the field of single-molecule magnets,<sup>1</sup> photo-commutable devices,<sup>2</sup> luminescent molecules<sup>3</sup> and anti-counterfeiting taggants.<sup>4</sup>



- 1) E. Kiefl, et al., **ACS Nano**, 2016, 10, 5663.
- 2) X. Yi, et al., **ACS Applied Materials & Interfaces**, 2016, 24, 15551.
- 3) G. Calvez, et al., **Coord. Chem. Rev.** 2017, 340, 134.
- 4) O. Guillou, et al., **Acc. Chem. Res.** 2016, 49, 844.

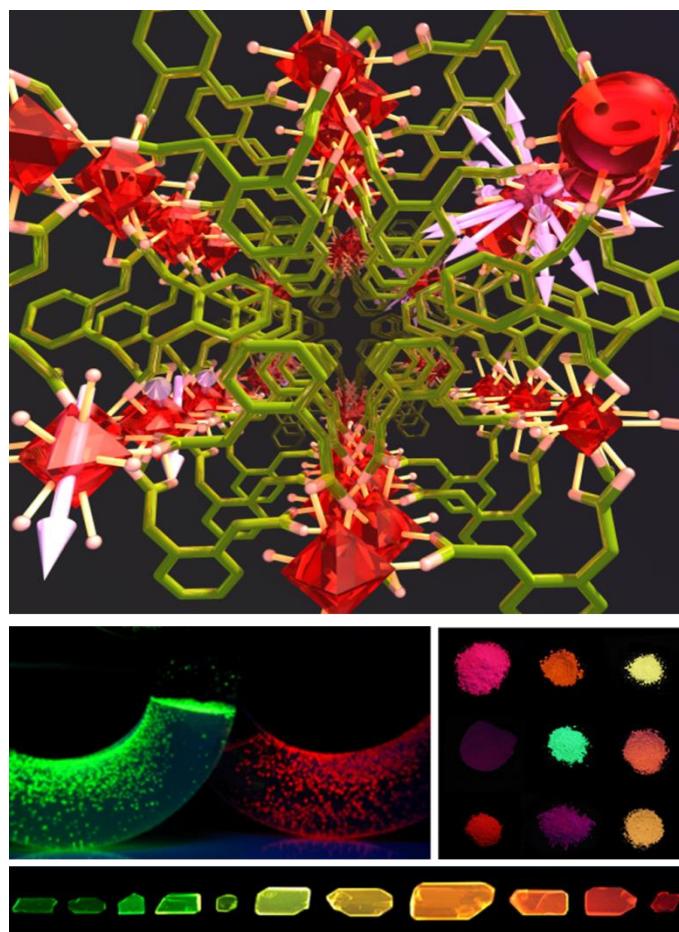
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