

ADVANCED FUNCTIONAL MATERIALS

LANTHANIDES

On page 6280, A. K. Powell, A.-N. Unterreiner, K. Goß, and co-workers report an investigation of both intra- and intermolecular electron transfer processes in a family of nanotoroidal $\text{Fe(III)}_{10}\text{Ln(III)}_{10}$ cyclic coordination clusters. Photo-induced intramolecular electron transport proceeds via exciton formation on the oxygen bridges. Intermolecular transport is rationalized using a hopping model. In both cases, the Kramers parity of the lanthanide ion is important.

