

EES Catalysis

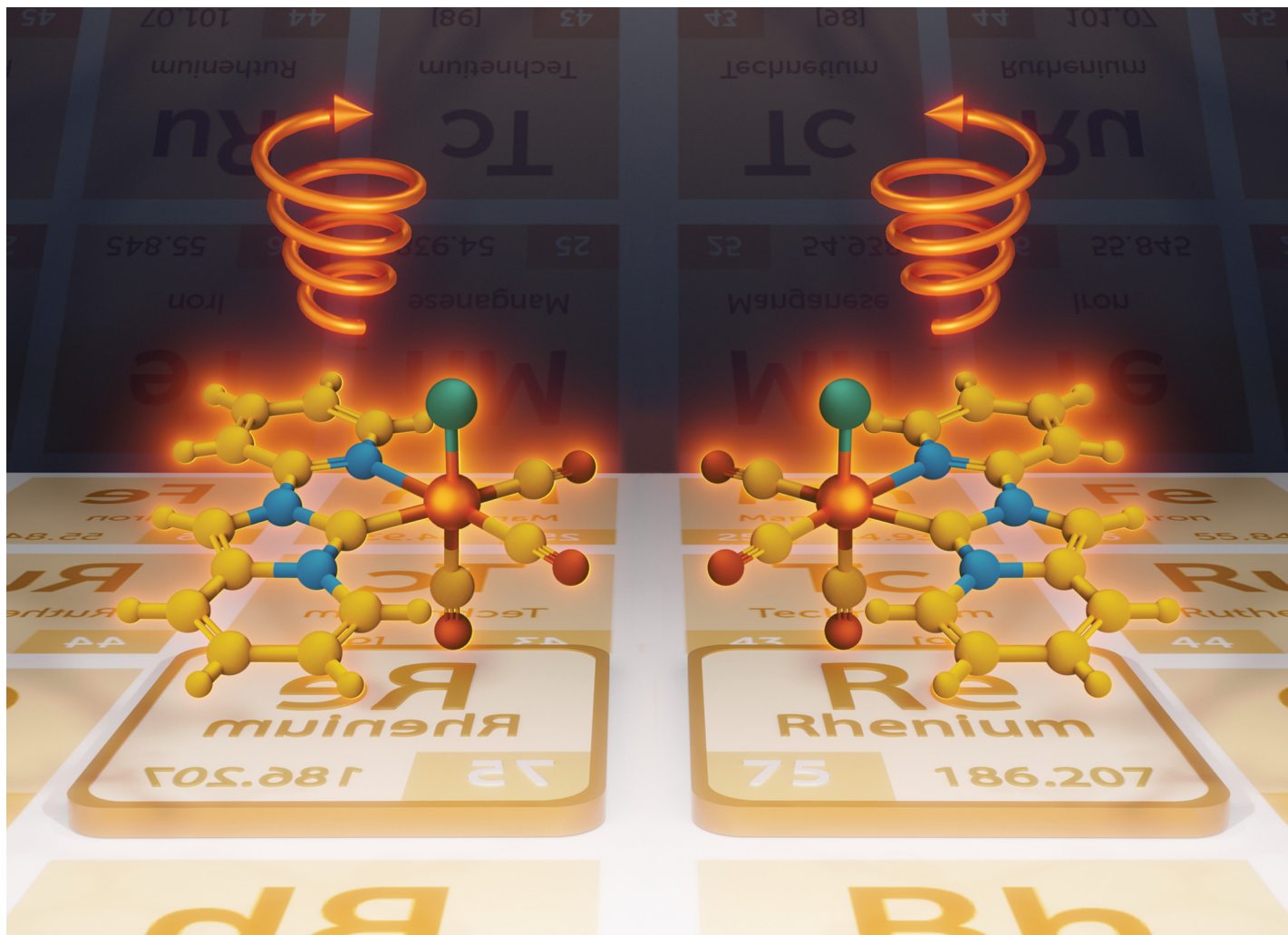
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**Fundamental questions
Elemental answers**



Showcasing research of Dr Matteo Mauro, Dr Jeanne Crassous and Dr Chantal Daniel's laboratories, CNRS, Universities of Strasbourg and Rennes, France

Chiroptical activity of benzannulated N-heterocyclic carbene rhenium(I) tricarbonyl halide complexes: towards efficient circularly polarized luminescence emitters

The computed and experimental (chiro-)optical properties of a series of eight enantiopure phosphorescent N-heterocyclic carbene rhenium(I) tricarbonyl complexes are compared in terms of ECD and CPL activities. The study deciphers the effect exerted by the nature of the low-lying electronic excited states onto the chiro-optical properties, paving the way to the design of enantiomerically pure circularly polarized luminescent CPL emitters.

Jurga Valanciunaite, Scientific Illustrator (www.jv-science-illustration.fr), is acknowledged for the cover artist view.

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As featured in:



See Jeanne Crassous, Chantal Daniel, Matteo Mauro *et al.*, *Phys. Chem. Chem. Phys.*, 2024, **26**, 4855.