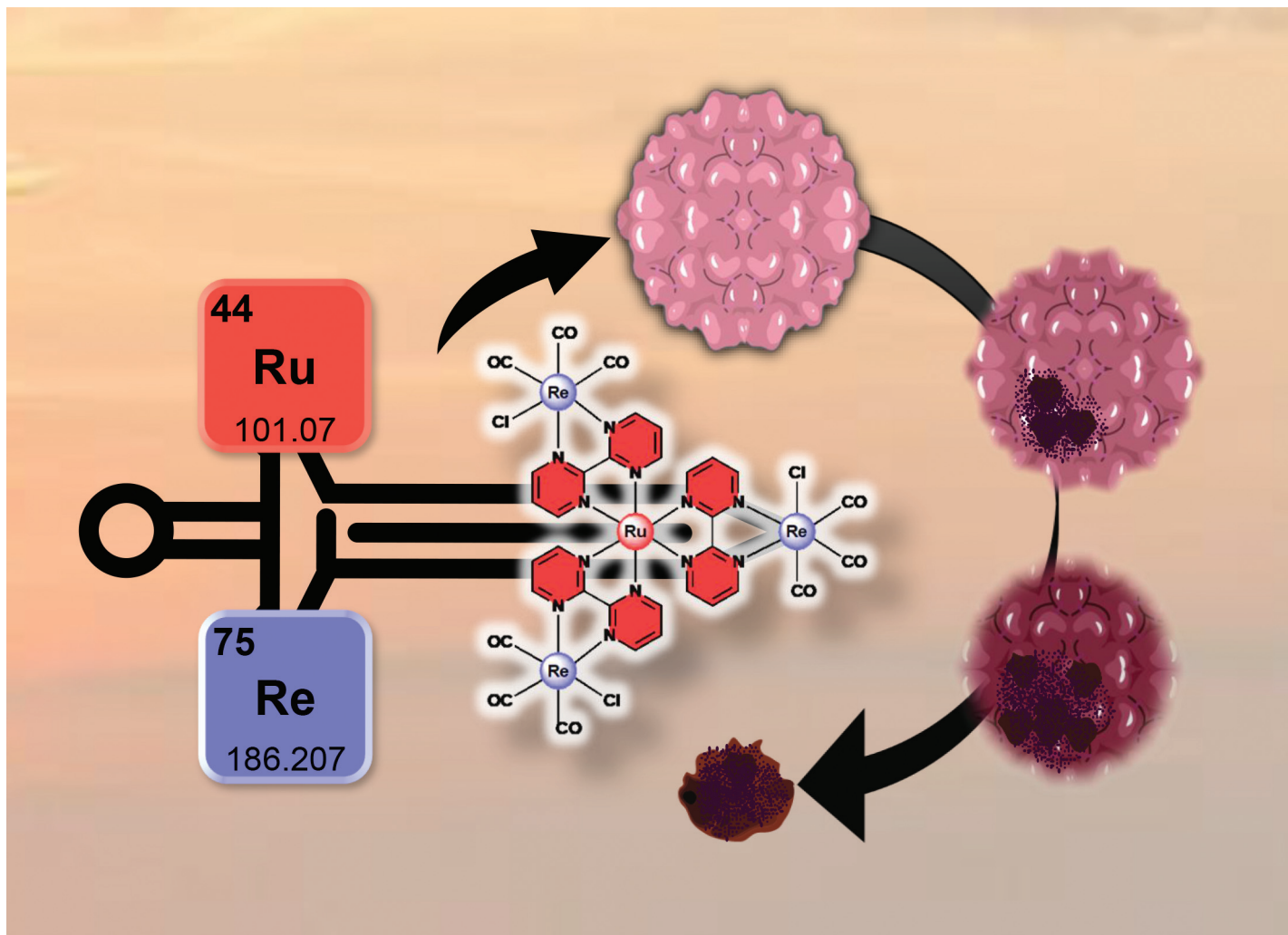


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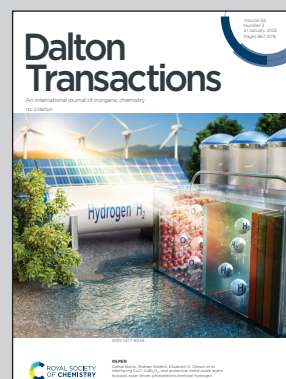


Showcasing research from Professor Karges's laboratory,
Faculty of Chemistry and Biochemistry, Ruhr University
Bochum, Germany.

Necrosis inducing tetranuclear Ru(II)-Re(I) metal complex
for anticancer therapy

Chemotherapy is a cornerstone of anticancer treatment globally. Despite its clinical efficacy, most chemotherapeutic drugs are linked to significant side effects. This study explores a novel approach by combining Ruthenium and Rhenium into a tetranuclear complex, bridged by 2,2'-bipyrimidine. Cytotoxicity assays demonstrated its broad anti-cancer activity across multiple cell lines, inducing cell death by necrosis. Remarkably, the complex also eradicated colon carcinoma spheroids at micromolar concentrations. This study introduces the first Ruthenium(II) - Rhenium(I) tetranuclear complex as an anticancer agent.

As featured in:



See Johannes Karges *et al.*, *Dalton Trans.*, 2025, 54, 942.