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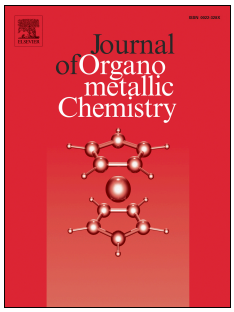

Oxamidato pillared heteroligated dirhenium(I) metallacrown ethers: Synthesis, spectroscopic and structural characterization

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Graphical abstract synopsis

Rhenium(I) based oxamidato bridged dinuclear metallacrown ethers were synthesized by oxidative addition of diaryloxamide ligands to rhenium carbonyl in the presence of flexible ester functionalized bidentate linkers under one-pot solvothermal conditions. The metallacrowns were formed by three precursor four component heteroligand self-assembly via orthogonal bonding approach and were spectroscopically and structurally characterized.