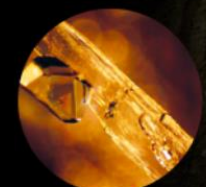




9th EuChemS

CHEMISTRY CONGRESS
Dublin, Ireland 7-11 July 2024

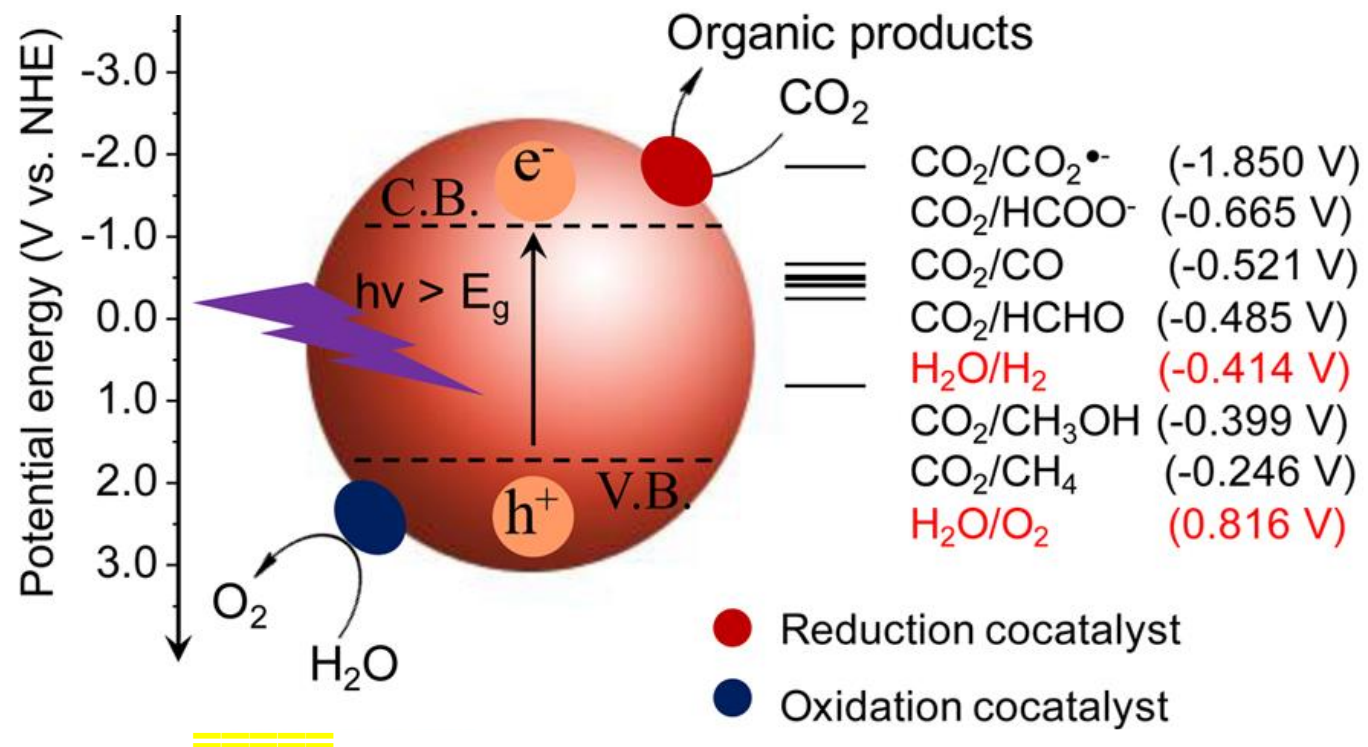


HYBRID MOLECULAR MATERIALS FOR ENERGY APPLICATIONS



9th EuChemS, Dublin
July 7-11, 2024

Antoni Llobet Research Group, ICIQ, Tarragona, Spain

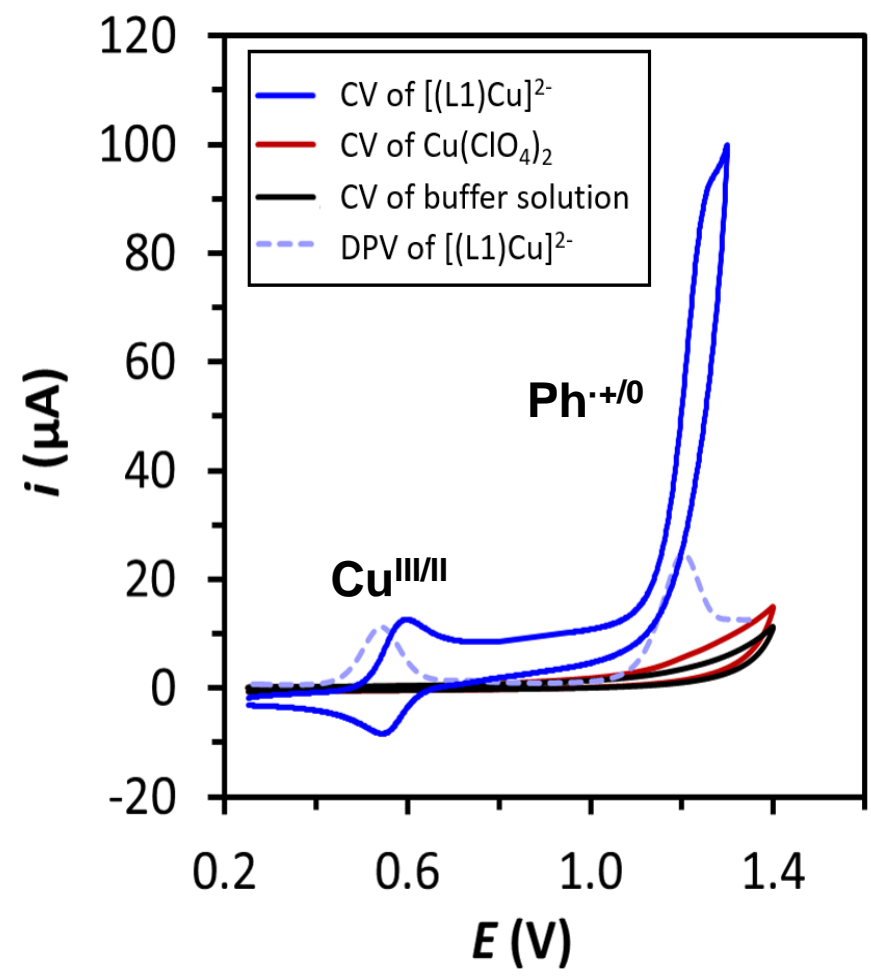
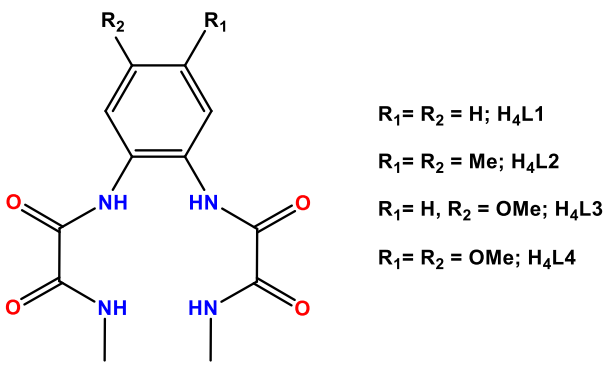
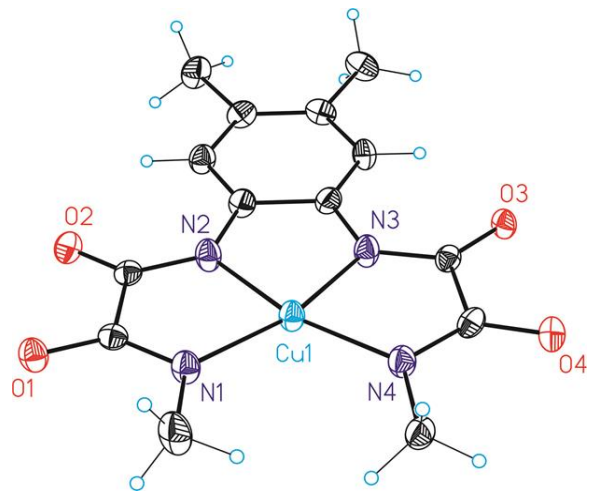


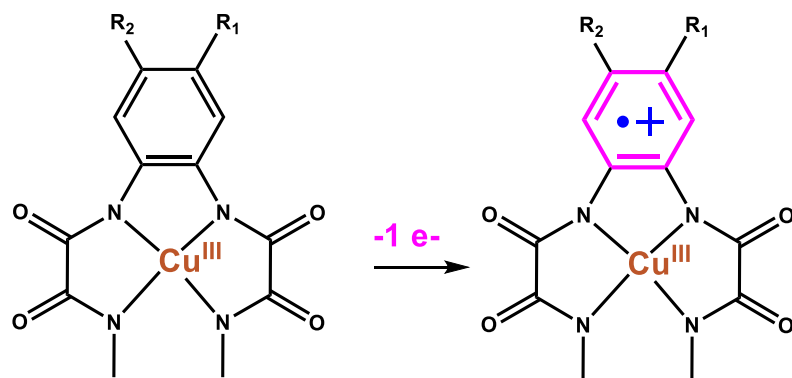
REPLACING FOSSIL FUELS BY SOLAR FUELS

F-H eff./PS-II



Cu-BASED WOCs





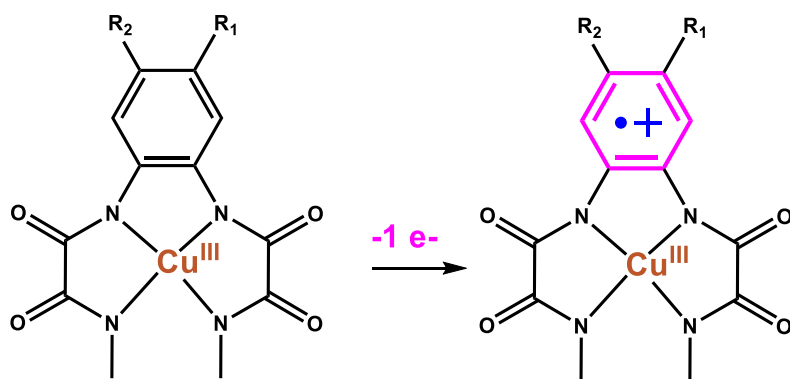
$R_1 = R_2 = \text{OMe}; \text{H}_4\text{L4}$

$R_1 = \text{H}, R_2 = \text{OMe}; \text{H}_4\text{L3}$

$R_1 = R_2 = \text{Me}; \text{H}_4\text{L2}$

$R_1 = R_2 = \text{H}; \text{H}_4\text{L1}$

REDOX NON-INOCENT LIGAND CONTROLS OVERPOT

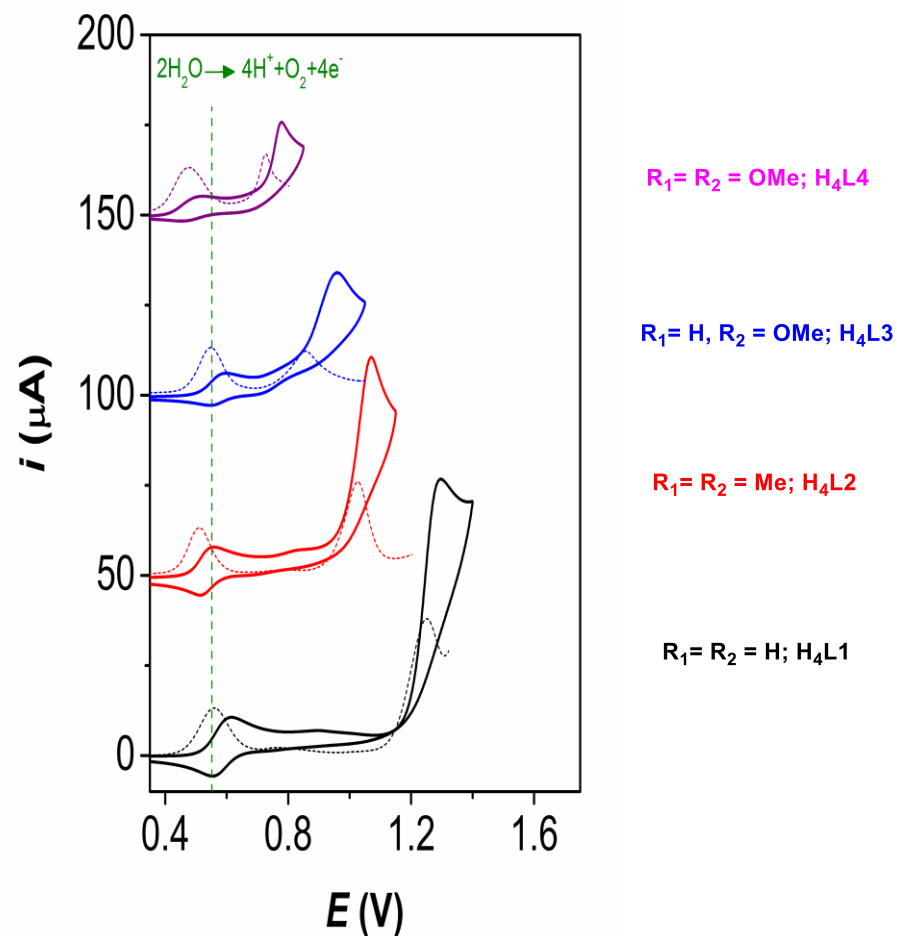


$R_1 = R_2 = \text{OMe}; \text{H}_4\text{L4}$

$R_1 = \text{H}, R_2 = \text{OMe}; \text{H}_4\text{L3}$

$R_1 = R_2 = \text{Me}; \text{H}_4\text{L2}$

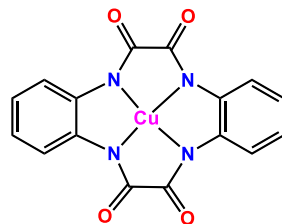
$R_1 = R_2 = \text{H}; \text{H}_4\text{L1}$



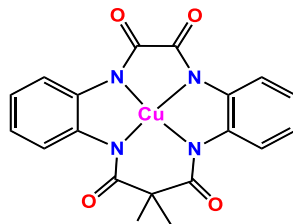
Record Low Overpotential for FR-TM

Cu-Macs PARALLEL CHEM at pH 7

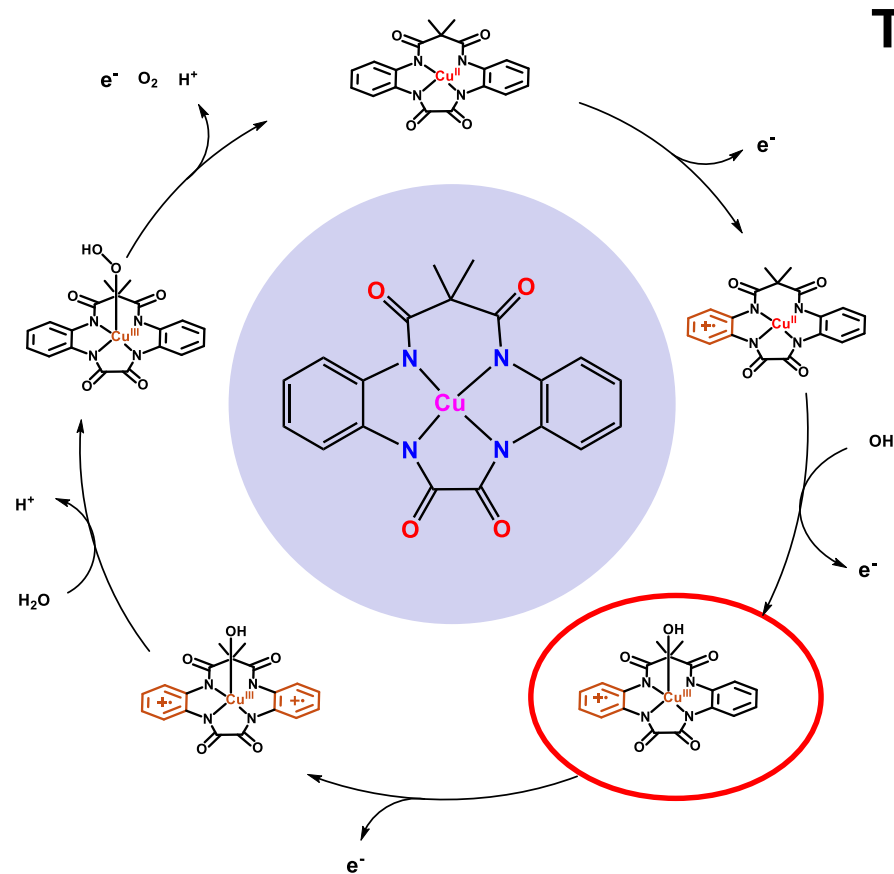
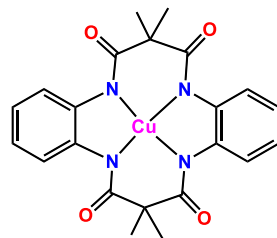
12 MR



13 MR



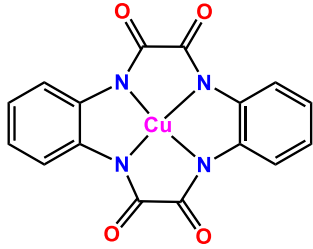
14 MR



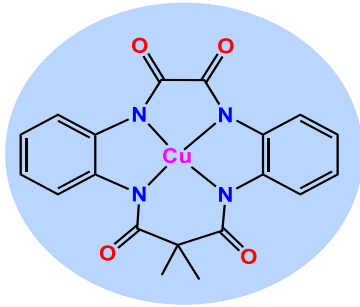
TR UV-vis/IR

TR XAS

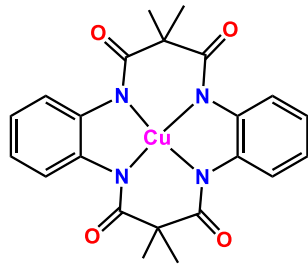
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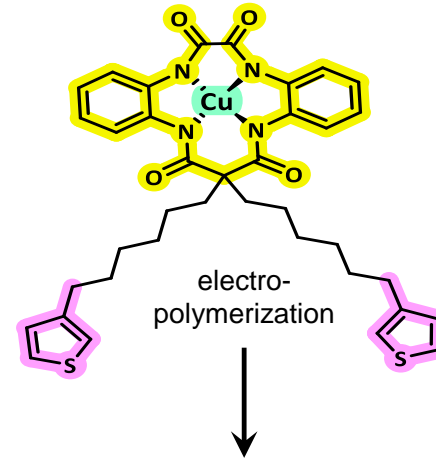
13 MR



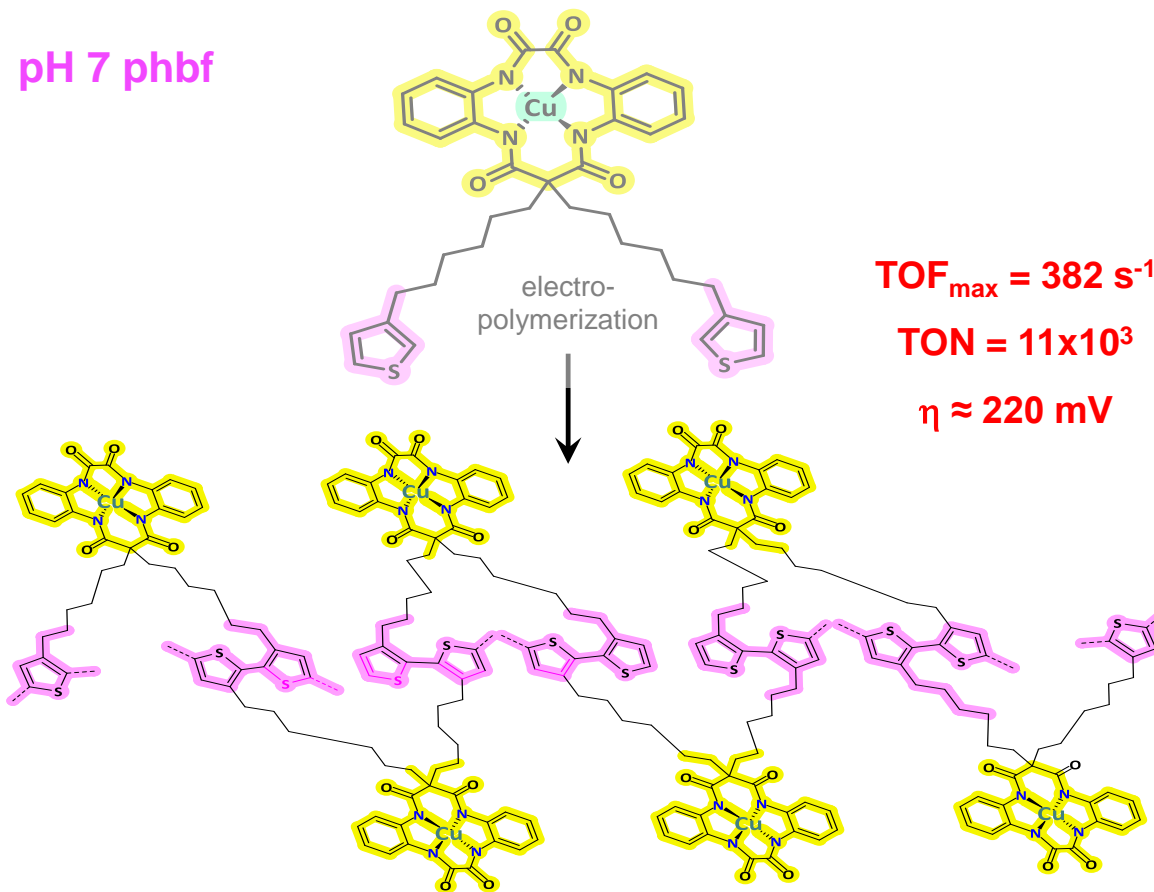
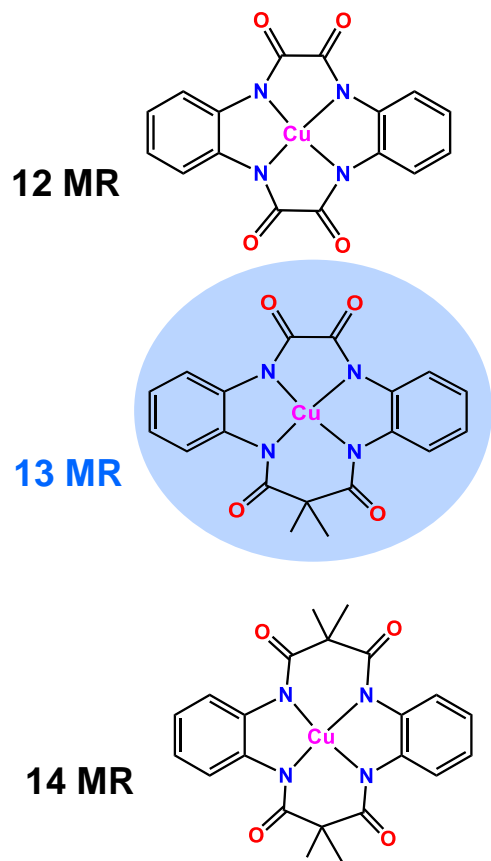
14 MR



pH 7 phbf



Cu-Macs PARALLEL CHEM at pH 7





CO₂NDOR

Project Number: 101006839

Project Acronym: CONDOR

Project title: COmbined suN-Driven Oxidation
and CO₂ Reduction for renewable energy storage