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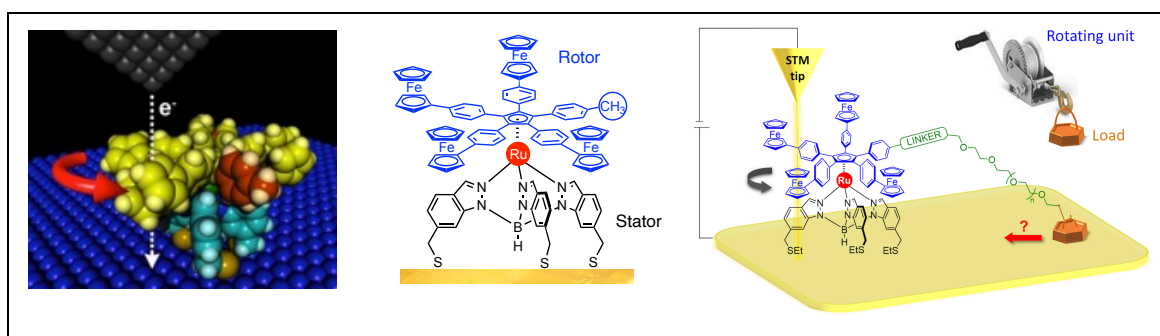
Prototypes of single molecular motors and winches

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Advances in the imaging and manipulation of single molecules by STM has stimulated much interest in the studies of technomimetic molecules,^[1] i.e. molecules designed to imitate macroscopic objects at the molecular level, also transposing the motions that these objects are able to undergo. In this lecture, I will present the design and synthesis of molecular motors^[2-4] and winches^[5-7] built around a ruthenium(II) or an europium(III) center.



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