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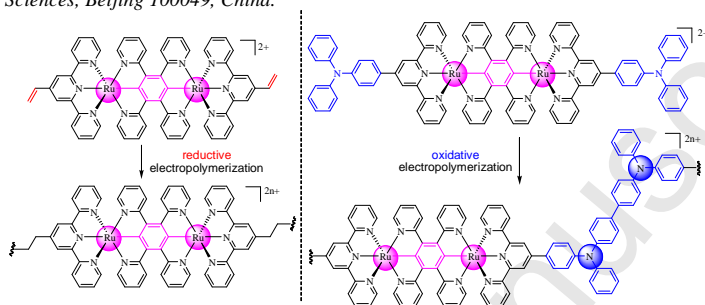
## Graphical Abstract

### Electropolymerized films of redox-active ruthenium complexes for multistate near-infrared electrochromism, ion sensing, and information storage

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This review summarizes the recent progress on the preparation of thin films of redox-active ruthenium complexes by reductive or oxidative electropolymerization. The applications of these films for multistate near-infrared electrochromism, ion sensing, and mimicking flip-flop and flip-flap-flop logic gates are discussed.

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