

Exploring dithienylarene-type molecular switches

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Dithienylethenes are a popular class of molecular switches both for applications and fundamental studies. Most of them contain the same type of ethene bridge: an isolated double bond embedded in a five-membered ring. Molecules having ethene bridges in electronically more complex environments have been the focus of less investigations.

Our research interests include the study of dithienylethenes interfaced with (anti)aromatic rings and ring systems. With such structures fundamental effects of (anti)aromaticity on photoswitching processes can be studied, and, possibly, novel applications could be developed.

