



Ferrocenyl-triazolyl-tetrathiafulvalene assemblies: synthesis and electrochemical recognition properties

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Auteur	Zhao, Bang-Tun [1], Liu, Lian-Wei [2], Li, Xiao-Chuan [3], Qu, Gui-Rong [4], Belhadj, Esmah [5], Le Derf, Franck [6], Sallé, Marc [7]
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Résumé en anglais	Cu(I)-catalyzed Huisgen-Meldal-Sharpless type dipolar 'click' reactions between azido-tetrathiafulvalene derivatives and ethynylferrocene yield the first examples of ferrocenyl-1,2,3-triazolyl-tetrathiafulvalene assemblies (4a , 4b). The electrochemical behavior of 4a and 4b , which integrate two distinctive redox probes, has been investigated, and their binding ability for various transition-metal cations has been studied by cyclic voltammetry. The contribution of the triazolyl ring in the guest binding process is illustrated by the specific electrochemical recognition of Zn ²⁺ by receptor 4b .
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