



A novel redox-active calix[4]arene-tetrathiafulvalene dyad

Submitted by Emmanuel Lemoine on Thu, 02/06/2014 - 14:08

Titre	A novel redox-active calix[4]arene-tetrathiafulvalene dyad
Type de publication	Article de revue
Auteur	Zhao, Bang-Tun [1], Zhu, Xiao-Min [2], Peng, Qi-Ming [3], Yan, Zhen-Ning [4], Derf, Franck [5], Sallé, Marc [6]
Editeur	SP Versita
Type	Article scientifique dans une revue à comité de lecture
Année	2011
Langue	Anglais
Date	01/12/2011
Numéro	6
Pagination	1102-1108
Volume	9
Titre de la revue	Central European Journal of Chemistry
ISSN	1895-1066
Mots-clés	Calix[4]arene [7], Crystal [8], Cyclic [9], Tetrathiafulvalene [10]
Résumé en anglais	<p>A novel redox-active calix[4]arene-TTF 5 was prepared by the reaction of <i>p</i>-tert-butylcalix[4]arene 4 with the tosylated TTF 3 in the presence of cesium fluoride. The structure of the dyad 5 was identified by X-ray diffraction analysis, and the preliminary electrochemical properties of 5 were investigated by cyclic voltammetry (CV), for which two reversible one-electron waves were observed. Moreover, the UV-vis absorption spectra studies show that the dyad 5 undergoes progressive oxidation at the TTF moiety in presence of increasing amounts of Cu²⁺ or Hg²⁺.</p>
URL de la notice	http://okina.univ-angers.fr/publications/ua2800 [11]
DOI	10.2478/s11532-011-0104-9 [12]

Liens

- [1] [http://okina.univ-angers.fr/publications?f\[author\]=3070](http://okina.univ-angers.fr/publications?f[author]=3070)
- [2] [http://okina.univ-angers.fr/publications?f\[author\]=3677](http://okina.univ-angers.fr/publications?f[author]=3677)
- [3] [http://okina.univ-angers.fr/publications?f\[author\]=3678](http://okina.univ-angers.fr/publications?f[author]=3678)
- [4] [http://okina.univ-angers.fr/publications?f\[author\]=3654](http://okina.univ-angers.fr/publications?f[author]=3654)
- [5] [http://okina.univ-angers.fr/publications?f\[author\]=3679](http://okina.univ-angers.fr/publications?f[author]=3679)
- [6] <http://okina.univ-angers.fr/marc.salle/publications>
- [7] [http://okina.univ-angers.fr/publications?f\[keyword\]=5715](http://okina.univ-angers.fr/publications?f[keyword]=5715)
- [8] [http://okina.univ-angers.fr/publications?f\[keyword\]=207](http://okina.univ-angers.fr/publications?f[keyword]=207)
- [9] [http://okina.univ-angers.fr/publications?f\[keyword\]=587](http://okina.univ-angers.fr/publications?f[keyword]=587)
- [10] [http://okina.univ-angers.fr/publications?f\[keyword\]=4788](http://okina.univ-angers.fr/publications?f[keyword]=4788)
- [11] <http://okina.univ-angers.fr/publications/ua2800>
- [12] <http://dx.doi.org/10.2478/s11532-011-0104-9>

