



The parent tetrathiafulvalene-terpyridine dyad: synthesis and metal binding properties

Submitted by Emmanuel Lemoine on Thu, 02/06/2014 - 11:11

Titre	The parent tetrathiafulvalene-terpyridine dyad: synthesis and metal binding properties
Type de publication	Article de revue
Auteur	Belhadj, Esmah [1], El-Ghayoury, Abdelkrim [2], Mazari, Miloud [3], Sallé, Marc [4]
Editeur	Elsevier
Type	Article scientifique dans une revue à comité de lecture
Année	2013
Langue	Anglais
Date	06/2013
Numéro	24
Pagination	3051-3054
Volume	54
Titre de la revue	Tetrahedron Letters
ISSN	0040-4039
Mots-clés	building-blocks [5], complexes [6], coordination chemistry [7], crystal-structures [8], Cyclic voltammetry [9], derivatives [10], Electronic absorption [11], ligand [12], Metal complex [13], pyridine [14], radical-cation salt [15], supramolecular chemistry [16], Terpyridine [17], Tetrathiafulvalene [18], TTF [19]
Résumé en anglais	The still unknown parent tetrathiafulvalene-terpyridine- ligand 5 (namely TTF-terpy), was synthesized through a straightforward strategy. The dyad exhibits an intramolecular charge transfer (ICT) which was evidenced by UV-vis electronic absorption. Complexation of various transition metal cations by this redox-active ligand was studied by UV-vis absorption spectroscopy as well as by cyclic voltammetry titration studies, supporting the dual functional character of this system. In addition, these results demonstrate that ligand 5 is a suitable building block for the preparation of electroactive neutral as well as charged metal complexes.
URL de la notice	http://okina.univ-angers.fr/publications/ua2674 [20]
DOI	10.1016/j.tetlet.2013.03.102 [21]

Liens

- [1] [http://okina.univ-angers.fr/publications?f\[author\]=3163](http://okina.univ-angers.fr/publications?f[author]=3163)
- [2] <http://okina.univ-angers.fr/a.elghayoury/publications>
- [3] [http://okina.univ-angers.fr/publications?f\[author\]=2605](http://okina.univ-angers.fr/publications?f[author]=2605)
- [4] <http://okina.univ-angers.fr/marc.salle/publications>
- [5] [http://okina.univ-angers.fr/publications?f\[keyword\]=5454](http://okina.univ-angers.fr/publications?f[keyword]=5454)
- [6] [http://okina.univ-angers.fr/publications?f\[keyword\]=136](http://okina.univ-angers.fr/publications?f[keyword]=136)

- [7] [http://okina.univ-angers.fr/publications?f\[keyword\]=5442](http://okina.univ-angers.fr/publications?f[keyword]=5442)
- [8] [http://okina.univ-angers.fr/publications?f\[keyword\]=5453](http://okina.univ-angers.fr/publications?f[keyword]=5453)
- [9] [http://okina.univ-angers.fr/publications?f\[keyword\]=4779](http://okina.univ-angers.fr/publications?f[keyword]=4779)
- [10] [http://okina.univ-angers.fr/publications?f\[keyword\]=5440](http://okina.univ-angers.fr/publications?f[keyword]=5440)
- [11] [http://okina.univ-angers.fr/publications?f\[keyword\]=5481](http://okina.univ-angers.fr/publications?f[keyword]=5481)
- [12] [http://okina.univ-angers.fr/publications?f\[keyword\]=5482](http://okina.univ-angers.fr/publications?f[keyword]=5482)
- [13] [http://okina.univ-angers.fr/publications?f\[keyword\]=5480](http://okina.univ-angers.fr/publications?f[keyword]=5480)
- [14] [http://okina.univ-angers.fr/publications?f\[keyword\]=5483](http://okina.univ-angers.fr/publications?f[keyword]=5483)
- [15] [http://okina.univ-angers.fr/publications?f\[keyword\]=5450](http://okina.univ-angers.fr/publications?f[keyword]=5450)
- [16] [http://okina.univ-angers.fr/publications?f\[keyword\]=5099](http://okina.univ-angers.fr/publications?f[keyword]=5099)
- [17] [http://okina.univ-angers.fr/publications?f\[keyword\]=5479](http://okina.univ-angers.fr/publications?f[keyword]=5479)
- [18] [http://okina.univ-angers.fr/publications?f\[keyword\]=4788](http://okina.univ-angers.fr/publications?f[keyword]=4788)
- [19] [http://okina.univ-angers.fr/publications?f\[keyword\]=5426](http://okina.univ-angers.fr/publications?f[keyword]=5426)
- [20] <http://okina.univ-angers.fr/publications/ua2674>
- [21] <http://dx.doi.org/10.1016/j.tetlet.2013.03.102>

Publié sur *Okina* (<http://okina.univ-angers.fr>)