



# Acentric Polymeric Chains in Radical Cation Salts of Tetrathiafulvalene Derivatives with the p-Carboxybenzenesulfonate Anion

Submitted by Emmanuel Lemoine on Tue, 02/04/2014 - 16:14

Titre	Acentric Polymeric Chains in Radical Cation Salts of Tetrathiafulvalene Derivatives with the p-Carboxybenzenesulfonate Anion
Type de publication	Article de revue
Auteur	Lakhdar, Youssef [1], El-Ghayoury, Abdelkrim [2], Zorina, Leokadiya [3], Mercier, Nicolas [4], Allain, Magali [5], Mézière, Cécile [6], Auban-Senzier, Pascale [7], Batail, Patrick [8], Giffard, Michel [9]
Type	Article scientifique dans une revue à comité de lecture
Année	2010
Langue	Anglais
Date	2010
Numéro	21
Pagination	3338 - 3342
Titre de la revue	European Journal of Inorganic Chemistry
ISSN	1099-0682
Mots-clés	Conducting materials [10], mixed-valent compounds [11], Noncentrosymmetry [12], self-assembly [13], tétrathiafulvalènes [14]
Résumé en anglais	The noncentrosymmetric p-carboxybenzenesulfonate anion afforded, in electro-oxidation experiments with bis(ethylenedithio)tetrathiafulvalene (BEDT-TTF), the low-gap semiconductor (room-temperature conductivity: 18 S cm <sup>-1</sup> ) mixed-valency salt BEDT-TTF <sub>2</sub> [O <sub>3</sub> S-C <sub>6</sub> H <sub>4</sub> -CO <sub>2</sub> H], which is noncentrosymmetric due to head-to-tail arrangement of the anions, whereas EDT-TTF-CONHMe (EDT-TTF = ethylenedithiotetrathiafulvalene) afforded the fully oxidized centrosymmetric salt [EDT-TTF-CONHMe <sup>+</sup> ][HO <sub>2</sub> C-C <sub>6</sub> H <sub>4</sub> -SO <sub>3</sub> <sup>-</sup> ] in which the driving force for the crystal packing is the existence of strong hydrogen-bonding interactions between the anions and the amido groups of the cations.
URL de la notice	<a href="http://okina.univ-angers.fr/publications/ua2035">http://okina.univ-angers.fr/publications/ua2035</a> [15]
DOI	10.1002/ejic.200900876 [16]
Lien vers le document	<a href="http://dx.doi.org/10.1002/ejic.200900876">http://dx.doi.org/10.1002/ejic.200900876</a> [16]

## Liens

- [1] [http://okina.univ-angers.fr/publications?f\[author\]=2845](http://okina.univ-angers.fr/publications?f[author]=2845)
- [2] <http://okina.univ-angers.fr/a.elghayoury/publications>
- [3] [http://okina.univ-angers.fr/publications?f\[author\]=2728](http://okina.univ-angers.fr/publications?f[author]=2728)
- [4] <http://okina.univ-angers.fr/nicolas.mercier/publications>

- [5] <http://okina.univ-angers.fr/magali.allain/publications>
- [6] <http://okina.univ-angers.fr/cecile.meziere/publications>
- [7] [http://okina.univ-angers.fr/publications?f\[author\]=2599](http://okina.univ-angers.fr/publications?f[author]=2599)
- [8] <http://okina.univ-angers.fr/patrick.batail/publications>
- [9] <http://okina.univ-angers.fr/michel.giffard/publications>
- [10] [http://okina.univ-angers.fr/publications?f\[keyword\]=5044](http://okina.univ-angers.fr/publications?f[keyword]=5044)
- [11] [http://okina.univ-angers.fr/publications?f\[keyword\]=5045](http://okina.univ-angers.fr/publications?f[keyword]=5045)
- [12] [http://okina.univ-angers.fr/publications?f\[keyword\]=5046](http://okina.univ-angers.fr/publications?f[keyword]=5046)
- [13] [http://okina.univ-angers.fr/publications?f\[keyword\]=4792](http://okina.univ-angers.fr/publications?f[keyword]=4792)
- [14] [http://okina.univ-angers.fr/publications?f\[keyword\]=4816](http://okina.univ-angers.fr/publications?f[keyword]=4816)
- [15] <http://okina.univ-angers.fr/publications/ua2035>
- [16] <http://dx.doi.org/10.1002/ejic.200900876>

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