

J. Casado, V. Hernandez, M.C. Ruiz Delgado, J.T. Lopez Navarrete, G. Fuhrmann, P. Bäuerle, *J. Raman Spectroscopy* (submitted 1/2004):

"Application of Raman Spectroscopy and Quantum-Chemistry for Featuring the Structure of Positive Charged Species in Macrocyclic pi-Conjugated Diacetylene-Bridged alpha-linked Oligothiophenes".

Abstract

Linear and cyclic oligothiophenes segmented with diacetylene groups have been shown to easily support positive charges within their thienyl segments. Triple bond bridges are also affected by ionization. Cyclic voltammetry, Raman spectroscopy and DFT calculations have been successfully combined in this study.