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From Homonuclear Metal String Complexes to Heteronuclear Metal String Complexes

Prof. Shie-Ming Peng (国立台湾大学)

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伊都キャンパス ウエスト1号館B棟3階 W1-B-314号室



The study of metal string complexes with 1-D transition metal frameworks began in the early 1990s. Since these complexes provide great insight into multiple metal-metal bonds, and may have potential applications as molecular wires, this field of research has grown in the past 20 years. As such, the electronic structure of the simplest trinuclear complexes, the supporting ligand systems, and single molecular conductance of metal string complexes are discussed. This review will introduce the development of this field and summarize some important results in the newly designed heteronuclear metal string complexes (HMSCs). These molecules may be of great interest in studying the nature of heterometallic electronic effects and molecular electronic applications.

連絡先 酒井 健 e-mail: ksakai@chem.kyushu-univ.jp 内線(4169)
九州大学大学院理学研究院 化学部門、分子システム科学センター(CMS)

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