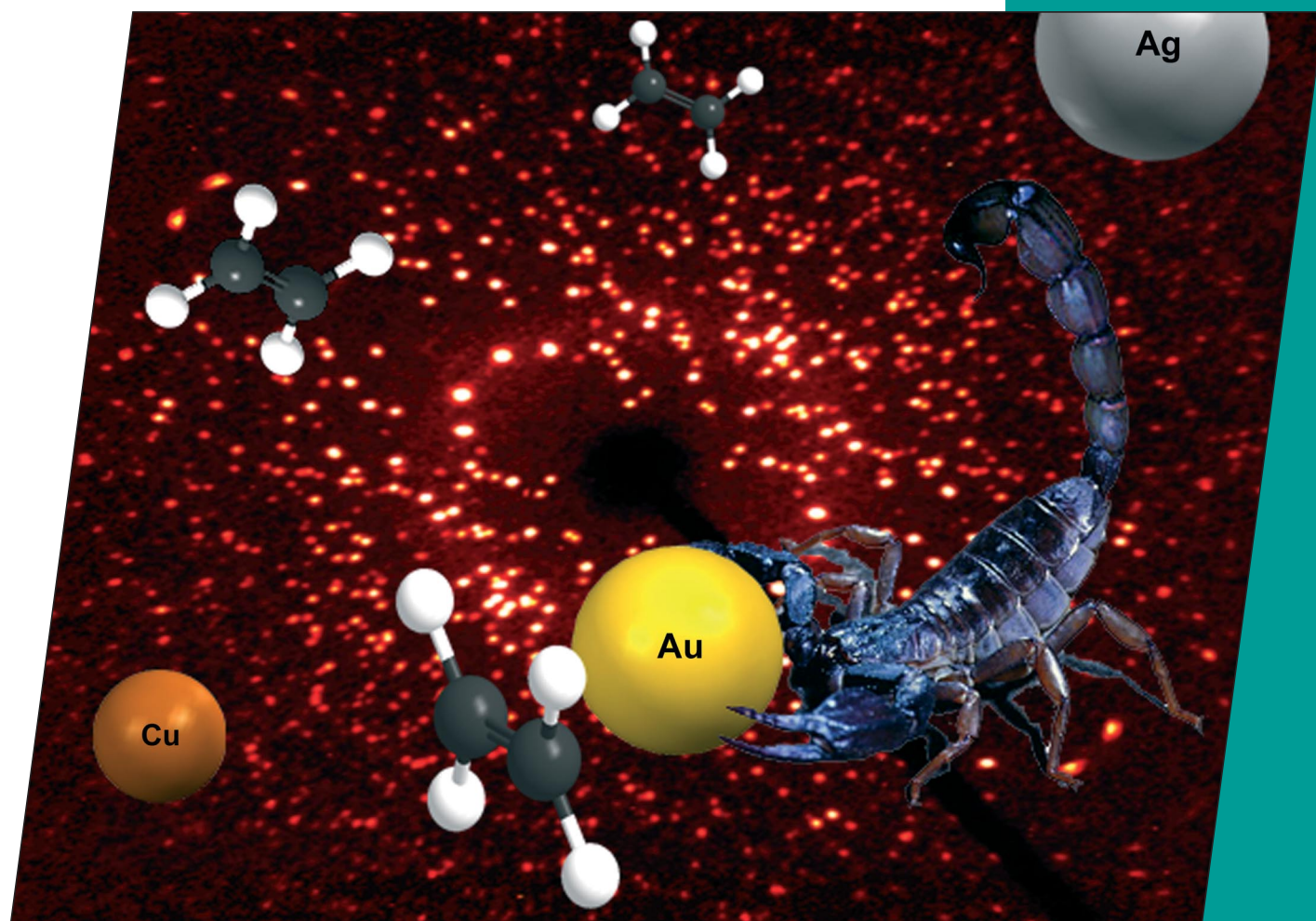


4/2008

1st February Issue

ALERTS and
RSS-FEEDS
Free Subscription

EurJIC
European Journal of
Inorganic Chemistry



Cover Picture / Microreview

H. V. Rasika Dias and Jiang Wu

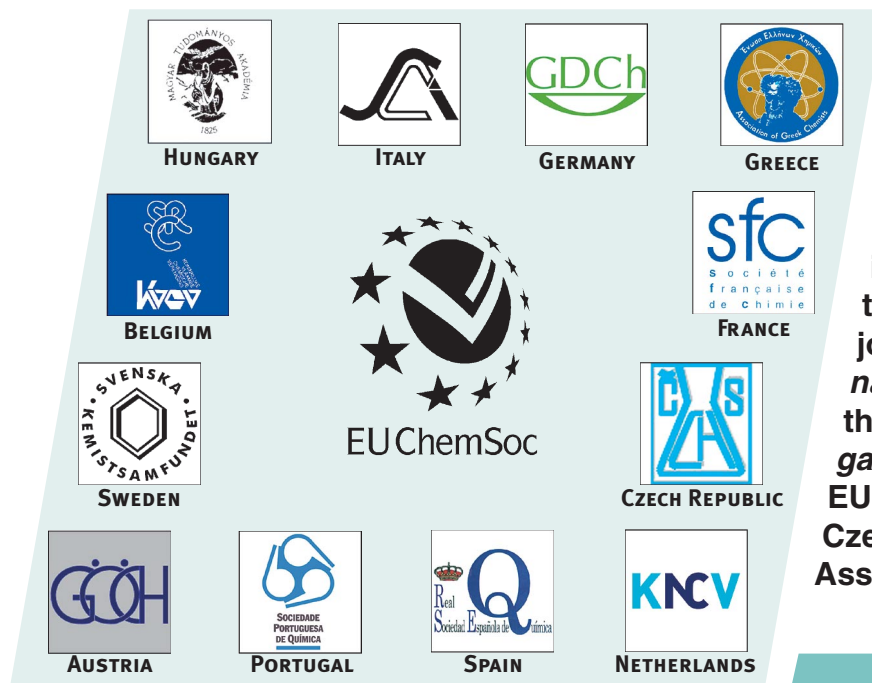
Structurally Characterized Coinage-Metal–Ethylene Complexes

 **WILEY-VCH**

www.eurjic.org

EJICFK (4) 497–640 (2008) · ISSN 1434-1948 · No. 4/2008


EUChemSoc



The EUChemSoc Societies have taken the significant step into the future by merging their traditional journals, to form two leading chemistry journals, the *European Journal of Inorganic Chemistry* and the *European Journal of Organic Chemistry*. Three further EUChemSoc Societies (Austria, Czech Republic and Sweden) are Associates of the two journals.

COVER PICTURE

The cover picture shows the formation of coinage metal (copper, silver, gold) complexes of ethylene supported by scorpionate ligands on an X-ray diffraction background (because the article focuses on the structurally characterized molecules). Thermally stable molecules containing bonds between coinage metal atoms and ethylene are still rare but have grown in number significantly over the last few years. Tris(pyrazolyl)borate (commonly known as scorpionate) ligands have played a major role in this chemistry. Indeed, they have served as the supporting ligands in the isolation of the first ethylene adduct of all three coinage metal ions. Most of the resulting complexes feature κ^3 -bonded scorpionate ligands, while a few others show rare κ^2 -coordination (as depicted here, a gold atom held by a scorpion with the scorpion's tail up). Details are presented in the Microreview by H. V. R. Dias and J. Wu on p. 509ff. H. V. R. D. gratefully acknowledges the Robert A. Welch Foundation (grant Y-1289) for providing financial support for his research.

