

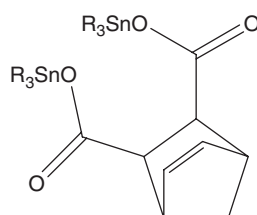
## Aims & Scope

*Applied Organometallic Chemistry* publishes Reviews, Research Articles, Rapid Communications, Working Methods Papers, Book Reviews and occasional reports on relevant conferences of applied work in the field of organometallic chemistry, including bioorganometallic chemistry and metal/organic ligand coordination chemistry. Research can include metals from the whole periodic table of elements, including transition elements, main group elements, lanthanides and actinides.

*Applied Organometallic Chemistry* publishes applications of organometallic or metallo-organic compounds in a wide range of areas, such as materials and nanomaterials science, polymers, precursors, catalysis, chemical technology and process engineering, biology, biochemistry, bioinorganic chemistry, medicine, drug development and biology and toxicology in environmental systems.

## Review

A comprehensive review on antimicrobial activity of organotin(IV) compounds is presented.

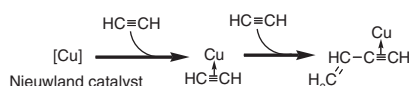


### Antimicrobial activity of organotin(IV) compounds: a review 195

T. S. Basu Baul\*

## Research Articles

Copper-acetylene and copper-monovinylacetylene  $\pi$ -complexes were detected in dimerization of acetylene with a Nieuwland catalyst under virtually the same reaction conditions employed in the industrial process.



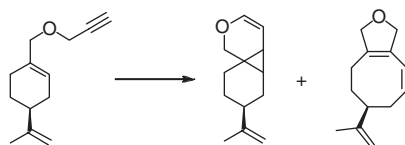
### Mechanistic study on dimerization of acetylene with a Nieuwland catalyst 205

T. Tachiyama, M. Yoshida, T. Aoyagi and S. Fukuzumi\*

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## Contents continued

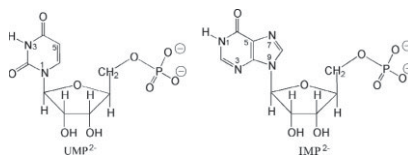
The Rh-catalyzed cycloisomerization of new terpenoids derivatives featuring an O-tethered enyne unexpectedly leads to polycyclic derivatives containing an inner cyclopropane ring or a diene moiety, depending on the structure of the enyne, as observed in the  $\text{PtCl}_2$ -catalyzed processes.



### Rh- and Pt-catalyzed cycloisomerization of enynes derived from terpenes 211

P. Costes, J. Weckesser, O. Dechy-Cabaret\*, M. Urrutigoity and P. Kalck

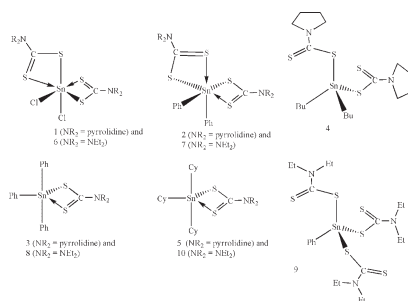
The formation constants of the species formed in the systems  $\text{H}^+ + \text{dimethyltin(IV)} + 5'\text{-IMP}$  and  $5'\text{-UMP}$ ,  $\text{H}^+ + 5'\text{-IMP}$ , and  $\text{H}^+ + 5'\text{-UMP}$  have been determined in aqueous solution in the pH range of 1.5–9.5.



### Interaction of dimethyltin(IV) dichloride with 5'-IMP and 5'-UMP 215

F. Gharib\*, F. Jaber and M. Zandevakili

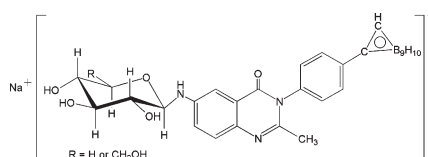
The *in vitro* antifungal activity of the dithiocarbamate organotin complexes has been screened against *Candida albicans* (ATCC 18804), *Candida tropicalis* (ATCC 750) and resistant *Candida albicans* collected from HIV-positive Brazilian patients with oral candidiasis.



### The *in vitro* antifungal activity of some dithiocarbamate organotin(IV) compounds on *Candida albicans* – a model for biological interaction of organotin complexes 221

D. C. Menezes, F. T. Vieira, G. M. de Lima\*, J. L. Wardell, M. E. Cortés, M. P. Ferreira, M. A. Soares and A. Vilas-Boas

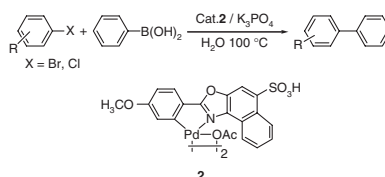
A Novel *N*-glycosyl carboranylquinazolines were synthesised in acceptable yields as potential agents for boron neutron capture therapy.



**Novel glycosylated carboranylquinazolines for boron neutron capture therapy of tumors: synthesis, characterization, and *in vitro* toxicity studies** 227

A. R. Genady and M. E. El-Zaria\*

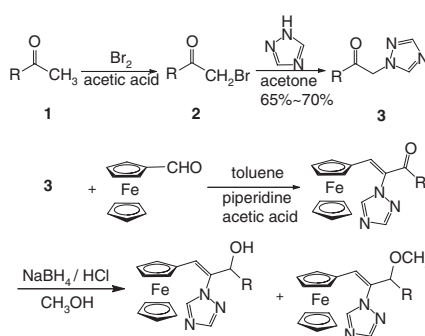
Two water-soluble palladium (II) complexes **2** and **4** were synthesized from easily available 2-arylnaphthoxazoles derivatives. They were successfully applied to the Suzuki coupling of aryl bromides with phenylboronic acid in water at 100 °C under phosphine-free conditions.



**Water-soluble 2-arylnaphthoxazole-derived palladium (II) complexes as phosphine-free catalysts for the Suzuki reaction in aqueous solvent** 233

H. Li and Y. Wu\*

Fourteen new 1*H*-1,2,4-triazole alcohol derivatives containing a ferrocenyl moiety were synthesized. In addition, six unexpected compounds, the hydroxyls of the title compounds, methylated by methanol, were obtained. The structures of all these new compounds were confirmed using <sup>1</sup>H NMR spectra, <sup>13</sup>C NMR, MS and elemental analyses. Some compounds were also confirmed with IR spectra. The antifungal and plant growth regulatory activities of the title compounds are discussed.



**Synthesis and biological activities of new 1*H*-1,2,4-triazole alcohol derivatives containing a ferrocenyl moiety** 237

J. Liu, L. Li, H. Dai and J. Fang\*