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Editorial

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Supramolecular Chemistry—Australasian issue

Editorial

Supramolecular chemistry incorporates a wide range of phenomena—including (but not limited to) molecular recognition, self-assembly, synthetic receptor chemistry, crystal engineering, coordination polymers and the development of new materials with unusual properties (which are often introduced in metal-containing species). Many of these aspects are well represented within the activities of Australian and New Zealand research groups, and this special Australasian issue of *Supramolecular Chemistry* serves to showcase some of that work.

The papers by Lewis and Steel, and by Amoore, Hanton and Spicer, discuss the self-assembly of coordination polymers of a variety of ligands with Ag(I), and show the dependence of the resultant structures on the ligand conformation and the identity of the anion present.

The work of Barr, Lincoln and Easton develops the concept molecular reactors, using a cyclodextrin-based moiety which increases the rate of the synthesis of 1,5-disubstituted-1,2,3-triazoles, and also controls the regioselectivity of the reaction.

The paper by D'Alessandro, Junk and Keene examines the effect of temperature and the anion on intramolecular electron transfer in a dinuclear ligand-bridged species. The work of Langford *et al.* addresses the redox and photophysical characteristics of crown ethers with naphthalene and naphthoquinone chromophore substituents.

Lindoy *et al.* report the influence of hydrogen-bonding in the self-assembly of a extended structures involving phthalimide and a number of organic targets.

The final three papers involve aspects of porphyrin chemistry. The work of Gunter and Merican reports a series of [2]rotaxanes in which porphyrins are used as the stopper units, while Johnstone and Lyons discuss the synthesis and properties of a convex *bis*-porphyrin based dimolecular tweezer. The paper by Taylor, Jameson and Boyd reports a self-assembled polymeric framework in which there are loose π - π interactions between porphyrin and C₆₀ moieties leading to alternating fullerene-porphyrin columns.

The papers provide an extensive coverage of a number of aspects of supramolecular chemistry. I thank all the authors for their contributions, and Phil Gale and *Supramolecular Chemistry* for providing the opportunity to use the issue of the journal to emphasise the diversity of activity in this area within the Australasian chemistry community.

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