

Editorial 2004

The coming twelve months hold some interesting developments for *Australian Journal of Chemistry*, some of which are outlined below. But 2003 was also an exciting year for the Journal: The quality and number of submissions has continued to rise dramatically; the number of citations and downloads of published papers have increased concomitantly; while the breadth of subject matter covered by the journal has also expanded. We have invested considerable effort into broadening the Journal's connections both locally and internationally, to institutions such as the Royal Australian Chemical Institute and the Federation of Asian Chemical Societies. Since it is the major international chemistry publication in the region, such connections will support the Journal's role of showcasing the best chemical science from Australasia alongside important contributions from around the world.

As this is achieved, the Journal will compete effectively with the most successful general chemistry journals around the world, such as *Angewandte Chemie*, *Journal of the American Chemical Society*, *Chemical Communications*, and *New Journal of Chemistry*. These are all journals of their local chemical societies, the German, American, British, and French chemical societies, respectively, and each certainly acts as a showcase for its local chemistry community. The strength of these publications and their chemical societies is the synergistic relationship that exists between each journal and its society. The *Australian Journal of Chemistry* has now entered such a relationship with the Royal

Australian Chemical Institute, with the signing in 2003 of an official agreement between the parties, and the offer of heavily discounted personal subscription rates for members.

Cooperation has also been developing between the journal and the Federation of Asian Chemical Societies, with San Thang, the secretary-general of FACS, acting as a



Fig. 1. Announcing the Young Scientist Award at the Asian Chemical Congress, Hanoi.

Table 1. The ten papers published in 2002 most frequently cited in 2003

1. P. Vana, J. F. Quinn, **T. P. Davis**, C. Barner-Kowollik, 'Recent Advances in the Kinetics of Reversible Addition Fragmentation Chain-Transfer Polymerization', *Aust. J. Chem.* **2002**, 55(6–7), 425. doi:10.1071/CH02042 [current chemistry]
2. A. B. Lowe, **C. L. McCormick**, 'Homogeneous Controlled Free Radical Polymerization in Aqueous Media', *Aust. J. Chem.* **2002**, 55(6–7), 367. doi:10.1071/CH02053 [review]
3. **J. P. A. Heuts**, G. E. Roberts, J. D. Biasutti, 'Catalytic Chain Transfer Polymerization: An Overview', *Aust. J. Chem.* **2002**, 55(6–7), 381. doi:10.1071/CH02098 [review]
4. **G. T. Russell**, 'The Kinetics of Free-Radical Polymerization: Fundamental Aspects', *Aust. J. Chem.* **2002**, 55(6–7), 399. doi:10.1071/CH02114 [review]
5. D. A. McMorran, S. Pfadenhauer, **P. J. Steel**, 'Chelating and Bridging Modes of Coordination by 1,3-Bis(pyrazol-1-yl)propane; Coexistence of Discrete and Polymeric Metallosupramolecular Isomers within the Same Crystal', *Aust. J. Chem.* **2002**, 55(8), 519. doi:10.1071/CH02061 [full paper]
6. P. Vana, **T. P. Davis**, C. Barner-Kowollik, 'End-Group Analysis of Polymers by Electrospray Ionization Mass Spectrometry: 2-Methyl-1-[4-(methylthio)phenyl]-2-morpholinopropan-1-one Initiated Free-Radical Photopolymerization', *Aust. J. Chem.* **2002**, 55(5), 315. doi:10.1071/CH02107 [rapid communication]
7. **M. H. Stenzel**, 'Formation of Regular Honeycomb-Patterned Porous Film by Self-Organization', *Aust. J. Chem.* **2002**, 55(4), 239. doi:10.1071/CH02056 [current chemistry]
8. M. A. Johnson, **B. M. Pinto**, 'Molecular Mimicry of Carbohydrates by Peptides', *Aust. J. Chem.* **2002**, 55(1–2), 13. doi:10.1071/CH02047 [review]
9. S. J. Williams, **S. G. Withers**, 'Glycosynthases: Mutant Glycosidases for Glycoside Synthesis', *Aust. J. Chem.* **2002**, 55(1–2), 3. doi:10.1071/CH02005 [review]
10. S. W. Prescott, M. J. Ballard, E. Rizzardo, **R. G. Gilbert**, 'RAFT in Emulsion Polymerization: What Makes it Different?', *Aust. J. Chem.* **2002**, 55(6–7), 415. doi:10.1071/CH02073 [review]

Table 2. The ten papers published in 2003 most frequently downloaded in 2003

1. **P. V. Bernhardt**, E. G. Moore, 'Functionalized Macrocyclic Compounds: Potential Sensors of Small Molecules and Ions', *Aust. J. Chem.* **2003**, 56(4), 239. doi:10.1071/CH02225 [review]
2. A. P. Michael, E. J. Grace, M. Kotiw, **R. A. Barrow**, 'Isochromophilone IX, a Novel GABA-Containing Metabolite Isolated from a Cultured Fungus, *Penicillium* sp.', *Aust. J. Chem.* **2003**, 56(1), 13. doi:10.1071/CH02021 [rapid communication]
3. J. Zheng, **E. S. Yeung**, 'Counting Single DNA Molecules in a Capillary with Radial Focusing', *Aust. J. Chem.* **2003**, 56(2–3), 149. doi:10.1071/CH02192 [current chemistry]
4. **S. Petrie**, 'Deep Space Organometallic Chemistry', *Aust. J. Chem.* **2003**, 56(4), 259. doi:10.1071/CH03006 [current chemistry]
5. S. Dziadek, C. G. Espínola, **H. Kunz**, 'Synthetic Glycopeptides for the Development of Antitumor Vaccines', *Aust. J. Chem.* **2003**, 56(6), 519. doi:10.1071/CH02241 [review]
6. **E. C. Constable**, C. E. Housecroft, B. M. Kariuki, M. Neuberger, C. B. Smith, 'Structural Diversity in Silver(I) Complexes of 3,6-Di(2-pyridyl)pyridazines', *Aust. J. Chem.* **2003**, 56(7), 653. doi:10.1071/CH03083 [rapid communication]
7. **W. R. Heineman**, C. J. Seliskar, J. N. Richardson, 'Spectroelectrochemical Sensing Based on Multimode Selectivity Simultaneously Achievable in a Single Device: An Overview', *Aust. J. Chem.* **2003**, 56(2–3), 93. doi:10.1071/CH02197 [review]
8. **P. J. Duggan**, M. L. Szydzik, 'Selective Fructose Transport Mediated by Di-Boronic Acids Derived from Neopentyl Glycol', *Aust. J. Chem.* **2003**, 56(1), 17. doi:10.1071/CH02267 [rapid communication]
9. T.-L. Lau, K. J. Barnham, C. C. Curtain, C. L. Masters, **F. Separovic**, 'Magnetic Resonance Studies of β -Amyloid Peptides', *Aust. J. Chem.* **2003**, 56(5), 349. doi:10.1071/CH02268 [review]
10. **L. F. Tietze**, T. Feuerstein, 'Highly Selective Compounds for the Antibody-Directed Enzyme Prodrug Therapy of Cancer', *Aust. J. Chem.* **2003**, 56(9), 841. doi:10.1071/CH03036 [review]

receiving editor for Asian manuscripts, the Journal's involvement at the recent Asian Chemical Congress, Fig. 1, and its support of the Federation's publication. We look forward to developing a similar relationship with the New Zealand Institute of Chemistry.

Publishing highlights from the last two years are summarized in Tables 1 and 2. Table 1 lists the top ten papers from 2002 (based on their citations in 2003), while Table 2 lists the top ten papers from 2003 (based on the number of downloads). Is there a correlation between downloads and citations? Time will tell, but our records indicate some correlation. You may notice some overlap between the papers frequently downloaded in 2002 (listed in last year's Editorial^[1]) and those cited in 2003 (Table 1). In addition, although it has only recently been published, the special issue on Colloid and Interface Science (issue 10) is already the second most frequently downloaded issue for 2003.

The growing success of the Journal is due in no small part to the expertise and considerable effort of the hundreds of referees consulted from around the world (the 447 referees consulted in 2003 are listed in the final issue of volume 56^[2]). I would also like to thank all the authors who have taken up my invitation in previous editorials over the last three years to submit their best work to the Journal. I trust that it has been a positive and rapid experience, and that they will be back for more.

The outlook for 2004 is no less bright: a number of topical reviews are planned—I hope you enjoy Leo Paquette's excellent review^[3] of state-of-the-art synthetic efforts towards nucleoside mimics—as well as special issues on Ionic Liquids

(issue 2, next month) and Frontiers of Organic Chemistry (issue 4).

Also, look out in the middle of the year for the first issue of *Environmental Chemistry*—a new multidisciplinary publication that will address the fundamental chemistry behind environmental problems, measurement, and solutions. The scope encompasses atmospheric chemistry, geochemistry, marine chemistry, interstellar chemistry, chemical toxicology, climate change, polar chemistry, fire chemistry, and green chemistry. While focussing on the publication of timely reviews and important new original research results, the journal also publishes essays and opinion pieces on issues of importance to environmental scientists, such as policy and funding.

I hope you will enjoy reading and publishing in *Australian Journal of Chemistry* in 2004, and I would encourage you to contact me with any comments at publishing.ajc@csiro.au.

All the very best for 2004.

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Editor

Australian Journal of Chemistry



References

- [1] A. J. Green, *Aust. J. Chem.* **2003**, 56, 1. doi:10.1071/CH03025
- [2] *Aust. J. Chem.* **2003**, 56, 1262. doi:10.1071/CHrefs2003
- [3] L. A. Paquette, *Aust. J. Chem.* **2004**, 57, 7. doi:10.1071/CH03267