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Chemistry Collection Development Policy

Last Updated September 2008

1. Purpose of the collection

The Library buys material on chemistry to support the research, teaching and learning activities in the School of Molecular and Microbial Sciences. Some sections of this material are also relevant to teaching and research in the Institute for Molecular Bioscience, the Australian Institute for Bioengineering and Nanotechnology and the Centre for Magnetic Resonance

2. Primary user groups served

The School of Molecular and Microbial Sciences teaching programs in chemistry cover synthetic chemistry, polymer chemistry, computational chemistry, surface chemistry and spectroscopy.

The chemistry research interests of staff and graduate students of the school, institutes and centres are listed below.

Chemical Biology

- Metal ions in Biological Systems
- Structural Biology
- Computational Biomolecular Science
- Chemical Ecology

Molecular Design and Synthesis

- Peptide and Oligosaccharide Design
- Molecular Assembly
- Bioactive Molecules and Drug Design
- Chemical Synthesis

Magnetic Resonance

Nanomaterials

3. Description of the collection

The majority of the collection is housed in the Dorothy Hill Physical Sciences & Engineering Library, although older less-used material may have been relocated to the on-campus warehouse.

Science Citation Index is available as part of the *Web of Science* database from 1900 onwards. *Chemical Abstracts* and the CAS Registry File are available as the *SciFinder Scholar* database from 1907 onwards. *Beilstein's Handbuch der Organischen Chemie* and *Gmelin Handbuch der anorganischen Chemie* are available as *DiscoveryGate/Crossfire Commander* databases. *Scopus*, the multidisciplinary abstract and citation database, has comprehensive coverage from 1996.

Access to full text journals of the Royal Society of Chemistry and the American Chemical Society are available.. The full text of 2000 Elsevier Science titles are available through *ScienceDirect*.

4. Interdisciplinary relationships

The chemistry collection is supported by titles in chemical engineering, mining and metallurgical engineering, nanotechnology, biochemistry, pharmacy, physiology, pharmacology, agriculture, earth sciences and food sciences.

5. Scope of current collecting

1. Languages collected

Current material collected in chemistry is almost entirely in English, regardless of the country of origin.

2. Geographical areas collected

Not relevant to chemistry.

3. Chronological periods collected

Not relevant to chemistry.

4. Types (formats) of material collected

The collection contains mainly material in printed format. Some issues of older journals are held in microform. Patents, preprints, laboratory manuals and technical reports are not collected.

To ensure timely access to core journals by teaching and research staff, journal titles which become available in electronic format are purchased unless costs are prohibitive.

The purchase of multimedia packages to support teaching and learning in the subject areas is encouraged and is increasing.

5. Publication dates

Collecting focuses on current imprints. Retrospective purchase of items such as back runs of journals may be made to support new research programs.

6. Special considerations

None.

7. Conspectus

The Chemistry collection is rated at level 4. However, the current collecting level is 3b. The collection is particularly strong in organic chemistry, polymers, spectroscopy, surface chemistry and quantum chemistry. Current emphasis in collecting is on biological chemistry, molecular design and synthesis, advanced materials, and chemistry of the environment.