# Review articles

- Fluorescence-based transient state monitoring for biomolecular spectroscopy and imaging
  - J. Widengren

# Research articles

- Scaling and mechanics of carnivoran footpads reveal the principles of footpad design
  - K.-J. Chi & V. L. Roth

- Simulation of lung alveolar epithelial wound healing in vitro
  - S. H. J. Kim, M. A. Matthay, K. Mostov & C. A. Hunt

- Development of magnesium calcium phosphate biocement for bone regeneration

- Analytical methods for quantifying environmental connectivity for the control and surveillance of infectious disease spread
  - J. Remais, A. Akullian, L. Ding & E. Seto

- Cerebrospinal fluid dynamics in the human cranial subarachnoid space: an overlooked mediator of cerebral disease. I. Computational model

- Cerebrospinal fluid dynamics in the human cranial subarachnoid space: an overlooked mediator of cerebral disease. II. In vitro arachnoid outflow model
  - D. W. Holman, V. Kurtcuoglu & D. M. Grzybowski

- Stochasticity in staged models of epidemics: quantifying the dynamics of whooping cough
  - A. J. Black & A. J. McKane

- Characterization and analysis of carbon fibre-reinforced polymer composite laminates with embedded circular vasculature
  - C.-Y. Huang, R. S. Trask & J. P. Bond

# Reports

- Corrections to the theory and the optimal line in the swimming diagram of Taylor (1952)
  - J. A. C. Humphrey, J. Chen, T. Iwasaki & W. O. Friesen