Review articles
Probing mechanical principles of focal contacts in cell–matrix adhesion with a coupled stochastic-elastic modelling framework 1217
H. Gao, J. Qian & B. Chen
Assessing Lévy walks as models of animal foraging 1233
A. James, M. J. Plank & A. M. Edwards

Research articles
Estimating reproduction numbers for adults and children from case data 1248
K. Glass, G. N. Mercer, H. Nishiura, E. S. McBryde & N. G. Becker
Evidence of strategic periodicities in collective conflict dynamics 1260
S. DeDeo, D. Krakauer & J. Flack
From three-dimensional weavings to swollen cornocytes 1274
M. E. Evans & S. T. Hyde
A simple DNA gate motif for synthesizing large-scale circuits 1281
L. Qian & E. Winfree
Structure and formation of ant transportation networks 1298
T. Latty, K. Ramsch, K. Itô, T. Nakagaki, D. J. T. Sumpter, M. Middendorf & M. Beekman
Strategies for antiviral stockpiling for future influenza pandemics: a global epidemic-economic perspective 1307
Lévy fluctuations and mixing in dilute suspensions of algae and bacteria 1314
I. M. Zaid, J. Dunkel & J. M. Yeomans
Mechanical models of sandfish locomotion reveal principles of high performance subsurface sand-swimming 1332
R. D. Maladen, Y. Ding, P. B. Umbanhowar, A. Kamor & D. I. Goldman
Modelling the spread of infectious salmon anaemia among salmon farms based on seaway distances between farms and genetic relationships between infectious salmon anaemia virus isolates 1346
M. Aldrin, T. M. Lyngstad, A. B. Kristoffersen, B. Storvik, Ø. Borgan & P. A. Jansen
Capillary-based static self-assembly in higher organisms 1357
J. Voise, M. Schindler, J. Casas & E. Raphaël
Corrections
Corrigendum for the paper ‘Nonlinear elasticity of biological tissues with statistical fibre orientation’ 1367
S. Federico, J. Papirski & T. C. Casser