



Review articles

- Placing microalgae on the biofuels priority list: a review of the technological challenges** 703
H. C. Greenwell, L. M. L. Laurens, R. J. Shields, R. W. Lovitt & K. J. Flynn

Research articles

- Decreasing stochasticity through enhanced seasonality in measles epidemics** 727
N. B. Mantilla-Beniers, O. N. Bjørnstad, B. T. Grenfell & P. Rohani

- A novel biomimetic approach to the design of high-performance ceramic–metal composites** 741
M. E. Launey, E. Munch, D. H. Alsem, E. Saiz, A. P. Tomsia & R. O. Ritchie

- Distribution of vaccine/antivirals and the ‘least spread line’ in a stratified population** 755
E. Goldstein, A. Apolloni, B. Lewis, J. C. Miller, M. Macauley, S. Eubank, M. Lipsitch & J. Wallinga

- Reflectivity of the gyroid biophotonic crystals in the ventral wing scales of the Green Hairstreak butterfly, *Callophrys rubi*** 765
K. Michielsen, H. De Raedt & D. G. Stavenga

- Hydrodynamic constraints on prey-capture performance in forward-striking snakes** 773
S. Van Wassenbergh, J. Brecko, P. Aerts, I. Stouten, G. Vanheusden, A. Camps, R. Van Damme & A. Herrel

- Modelling the layer-specific three-dimensional residual stresses in arteries, with an application to the human aorta** 787
G. A. Holzapfel & R. W. Ogden

- Rate-dependent control strategies stabilize limb forces during human locomotion** 801
J. T. Yen & Y.-H. Chang

- Transient virulence of emerging pathogens** 811
B. M. Bolker, A. Nanda & D. Shah

- Systemic risk: the dynamics of model banking systems** 823
R. M. May & N. Arinaminpathy

- Deformation micromechanisms of collagen fibrils under uniaxial tension** 839
Y. Tang, R. Ballarini, M. J. Buehler & S. J. Eppell

- Nearby boundaries create eddies near microscopic filter feeders** 851
R. E. Pepper, M. Roper, S. Ryu, P. Matsudaira & H. A. Stone



Founded in 1660, the Royal Society is the independent scientific academy of the UK, dedicated to promoting excellence in science

Registered Charity No 207043



rsif.royalsocietypublishing.org

Published in Great Britain by the Royal Society,
6–9 Carlton House Terrace, London SW1Y 5AG