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Soil engineering in vivo: harnessing natural biogeochemical systems for sustainable, multi-functional engineering solutions


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Predictions of tumour morphological stability and evaluation against experimental observations

K. Pham, H. B. Frieboes, V. Cristini & J. Lowengrub

Bird migration flight altitudes studied by a network of operational weather radars

A. M. Dickoré, E. Lacôte, H. Stark, L. Delobbe, P. Tabary & S. Hohlman

A systems engineering approach to validation of a pulmonary physiology simulator for clinical applications


Mechanism of variable structural colour in the neon tetra: quantitative evaluation of the Venetian blind model

S. Yoshida, B. Matsuhana, S. Tanaka, Y. Inouye, N. Oshima & S. Kinoshita

Insights from unifying modern approximations to infections on networks

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Fifteen observations on the structure of energy-minimizing gaits in many simple biped models

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Quiescence: a mechanism for escaping the effects of drug on cell populations

T. Alarcon & H. J. Jensen

Non-equilibrium phase transition in mesoscopic biochemical systems: from stochastic to nonlinear dynamics and beyond

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Modelling the relationship between environmental factors, transcriptional genes and deoxynivalenol mycotoxin production by strains of two Fusarium species

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Concentration dependence of lipopolymer self-diffusion in supported bilayer membranes

H.-Y. Zhang & R. J. Hill

Reports

A moment invariant for evaluating the chirality of three-dimensional objects

J. Hattne & V. S. Lamzin

Corrigendum for the paper ‘North–South divide: contrasting impacts of climate change on crop yields in Scotland and England’

M. H. Butterworth, M. A. Semenov, A. Barnes, D. Moran, J. S. West & B. D. L. Fitt