Most downloaded and cited from 2010

2010 was an extremely successful year for Philosophical Transactions A and, below, we are pleased to present a list of some of the most downloaded and most cited articles from 2010.

These articles, which represent just a selection of the high-quality, peer-reviewed content published in the journal, will be FREELY available online throughout 2011.

Most downloaded articles from 2010

Adoption and use of Web 2.0 in scholarly communications
Rob Procter, Robin Williams, James Stewart, Meik Poschen, Helene Snee, Alex Voss and Marzieh Asgari-Targhi

Biophysics and systems biology
Denis Noble

Complex dynamics of our economic life on different scales: insights from search engine query data
Tobias Preis, Daniel Reith and H. Eugene Stanley

Data sharing, small science and institutional repositories
Melissa H. Cragin, Carole L. Palmer, Jacob R. Carlson and Michael Witt

Geometry and physics
Michael Atiyah, Robbert Dijkgraaf and Nigel Hitchin

Key challenges in future Li-battery research
J.-M. Tarascon

Multiscale modelling and nonlinear finite element analysis as clinical tools for the assessment of fracture risk
David Christen, Duncan James Webster and Ralph Müller

Potential for a hazardous geospheric response to projected future climate changes
B. McGuire

Surface modification, functionalization and bioconjugation of colloidal inorganic nanoparticles
R. A. Sperling and W. J. Parak

Turning carbon dioxide into fuel
Jiang, T. Xiao, V. L. Kuznetsov and P. P. Edwards

Most cited articles from 2010

The enigma of optical momentum in a medium
Stephen M. Barnett, and Rodney Loudon

How uncertain are climate model projections of water availability indicators across the Middle East?
Debbie Hemming, Carlo Buontempo, Eleanor Burke, Mat Collins, and Neil Kaye

Hydrogen: the future energy carrier
Andreas Zöttel, Arndt Remhof, Andreas Borgschulte, and Oliver Friedrichs

Massive star clusters in galaxies
William E. Harris

Mathematical modeling of prostate cancer growth and its application to hormone therapy
Gouhei Tanaka, Yoshito Hirata, S. Larry Goldenberg, Nicholas Bruchovsky, and Kazuyuki Aihara

The physics and modes of star cluster formation: observations
Charles J. Lada

Polyhedral nine-atom clusters of tetrel elements and intermetalloid derivatives
Sandra Scharfe and Thomas F. Fassler

Quantum analogue computing
Vivien M. Kendon, Kae Nemoto, and William J. Munro

Recent and future warm extreme events and high-mountain slope stability