

## 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  
Most cited articles from 2010

### 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 Züttel, Arndt Remhof, Andreas Borgschulte, and Oliver Friedrichs

#### [Massive star clusters in galaxies](#)

William E. Harris

#### [Mathematical modelling of prostate cancer growth and its application to hormone therapy](#)

Gouhei Tanaka, Yoshito Hirata, S. Larry Goldenberg, Nicholas Bruchofsky, and Kazuyuki Aihara

#### [The physics and modes of star cluster formation: observations](#)

Charles J. Lada

#### [Polyhedral nine-atom clusters of tetrel elements and intermetallic 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](#)

C. Huggel, N. Salzmann, S. Allen, J. Caplan-Auerbach, L. Fischer, W. Haeberli, C. Larsen, D. Schneider, and R. Wessels

