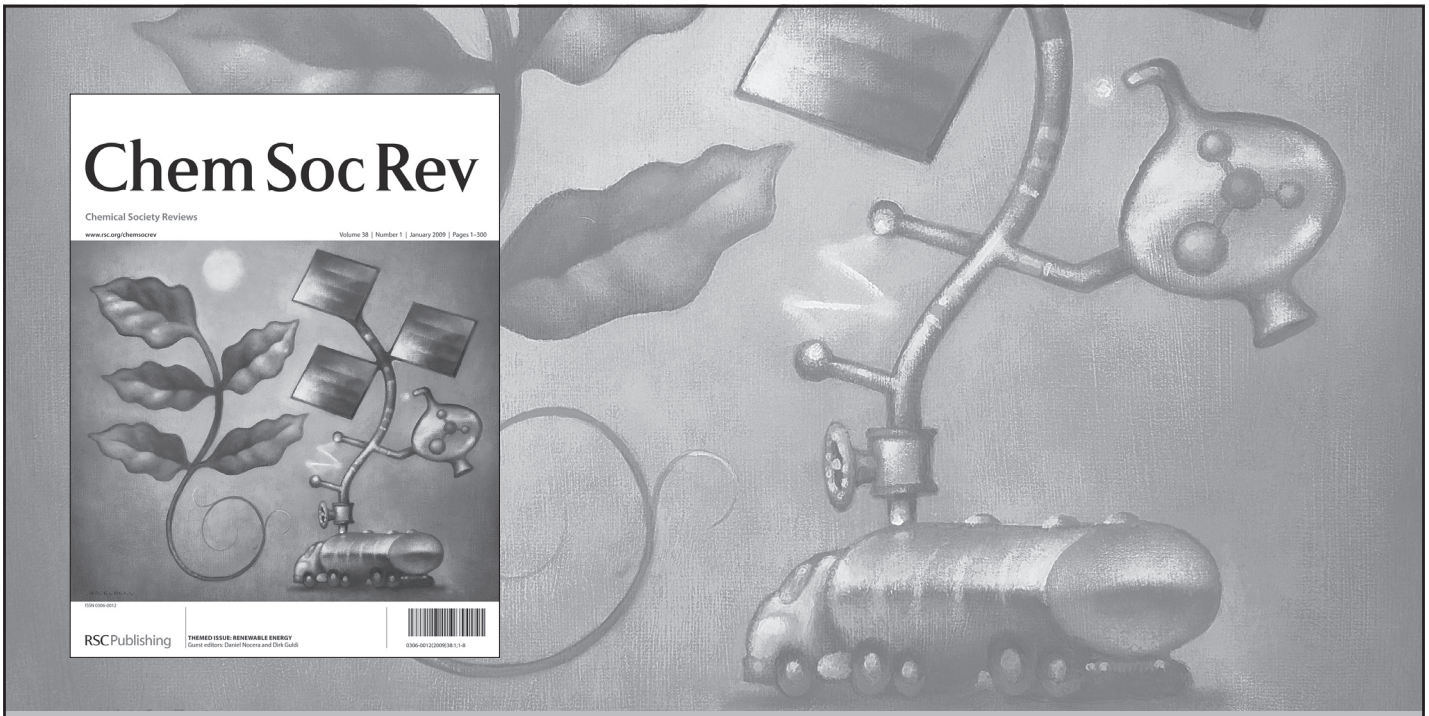

Renewable Energy themed issue

This themed issue of *Chem Soc Rev* on Renewable Energy collects the work of scientists that seek to transform the dream of a solar-powered society into reality. Topics include bioenergy conversion and biocatalysis, solar capture and conversion materials and catalysts used to store energy in hierarchical materials or in the form of the chemical bonds of fuels.

Reviews include:

Small molecule mimics of hydrogenases: hydrides and redox
Frédéric Gloaguen and Thomas B. Rauchfuss

Biology and technology for photochemical fuel production
Michael Hambourger, Gary F. Moore, David M. Kramer, Devens Gust, Ana L. Moore and Thomas A. Moore

Photosynthetic energy conversion: natural and artificial
James Barber

Single Nanowire photovoltaics
Bozhi Tian, Thomas J. Kempa and Charles M. Lieber

Multifunctional 3D nanoarchitectures for energy storage and conversion
Debra R. Rolison, Jeffrey W. Long, Justin C. Lytle, Anne E. Fischer, Christopher P. Rhodes, Todd M. McEvoy, Megan E. Bourg and Alia M. Lubers

Photodriven heterogeneous charge transfer with transition-metal compounds anchored to TiO_2 semiconductor surfaces
Shane Ardo and Gerald J. Meyer

Guest editor

Daniel G. Nocera
Massachusetts Institute of Technology, Cambridge, MA, USA

Dirk M. Guldi
Interdisciplinary Center for Molecular Materials (ICMM) Germany

"The aim of this thematic issue is to be a timely showcase for the latest cutting edge international research in this most important of multidisciplinary fields, and to show how the latest research can lead a path to ground-breaking new alternative renewable energy technologies."

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