



Gold: Chemistry, Materials and Catalysis theme issue

This collection of reviews sets out the state of the art with respect to gold catalysis, the synthesis and application of gold nanoparticles and gold chemistry. As such the issue takes a very broad approach to the topic, which has now become a hot topic in chemistry as a whole. We hope the reviews will inspire new discoveries and new researchers into this exciting field. The issue is timely as the field is expanding rapidly and hence these articles allow us to take stock of the great progress already achieved, as well as highlighting the remaining challenges.

Reviews include:

The relevance of shape and size of Au₅₅ clusters

Günter Schmid

The chemistry of gold as an anion

Martin Jansen

Catalytically active gold on ordered titania supports

Mingshu Chen and D. Wayne Goodman

Biological applications of gold nanoparticles

Ralph A. Sperling, Pilar Rivera Gil, Feng Zhang, Marco Zanella and Wolfgang J. Parak

Shape control in gold nanoparticle synthesis

Marek Grzelczak, Jorge Pérez-Juste, Paul Mulvaney and Luis M. Liz-Marzán

The use of aurophilic and other metal-metal interactions as crystal engineering design elements to increase structural dimensionality

Michael J. Katz, Ken Sakai and Daniel B. Leznoff

Supported gold nanoparticles as catalysts for organic reactions

Avelino Corma and Hermenegildo Garcia

Guest editor



Graham J Hutchings
Cardiff University

Guest editor



Matthias Brust
University of Liverpool

Guest editor



Hubert Schmidbaur
Technische Universität München

'Catalysis is reaching a golden age, as gold is finding many new applications as a catalyst for selective oxidations and hydrogenations. It is a really exciting time to be working in the field of catalysis'

030820

**A new journal from RSC Publishing
launching in 2009**

060877

Metallomics

Integrated biometal science



This timely new journal will cover the research fields related to metals in biological, environmental and clinical systems and is expected to be the core publication for the emerging metallomics community. The journal will be supported by an international Editorial Board, chaired by Professor Joseph A. Caruso of the University of Cincinnati/Agilent Technologies Metallomics Center of the Americas.

Metallomics will publish six issues in the first year, increasing to 12 issues in 2010. The journal will contain a full mix of research articles including Communications, Reviews, Full papers, and Editorials. From launch, the latest issue will be freely available online to all readers. Free institutional access to previous issues throughout 2009 and 2010 will be available following a simple registration process.

Contact the editor, Niamh O'Connor, at metallomics@rsc.org for further information or visit the website.

Submit your work now!

RSC Publishing

Supporting the **iSM**
International
Symposium
on Metallomics

www.rsc.org/metallomics

Registered Charity Number 207890