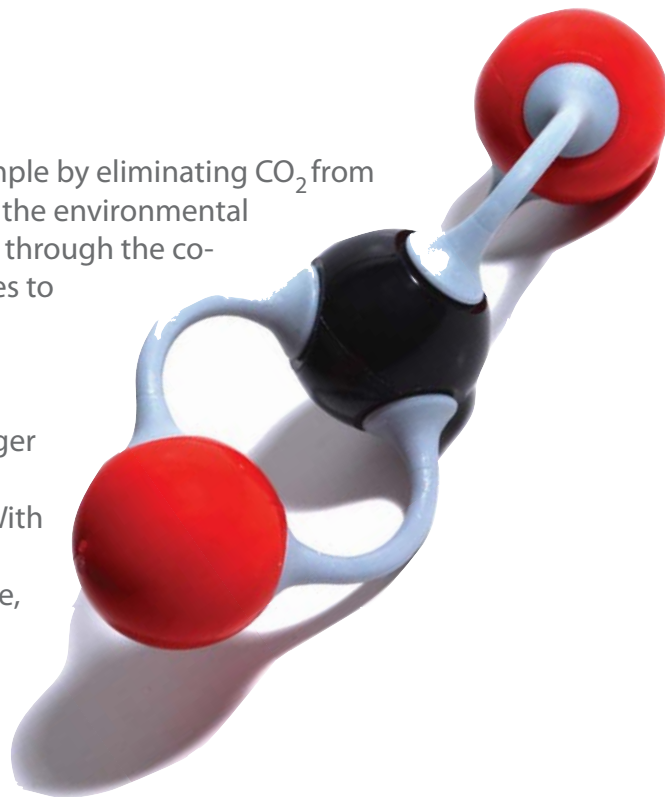


Dalton Transactions web theme issue:

CO₂ at metal centres

Methods for decreasing excess atmospheric CO₂, for example by eliminating CO₂ from gas-streams during air purification processes, are high on the environmental agenda. The chemistry of carbon dioxide at metal centres through the co-ordination of CO₂ or by reacting CO₂ with metal complexes to prepare carbon containing derivatives may hold some of the answers.

This timely web theme issue, guest edited by Dr. Roger Guilard, Professor of Chemistry at the University of Bourgogne in Dijon, France addresses exactly this topic. With contributed articles printed in regular issues of *Dalton Transactions* and collected online on a dedicated webpage, this first web theme issue from a series to appear in *Dalton Transactions* hails a new age in dynamic and flexible special issue publishing.



Topics covered in CO₂ at metal centres include:

Study of CO₂ sequestration by various materials

Catalytic synthesis using CO₂ as a building block

CO₂ as a building block for supramolecular assemblies

Chemistry of CO₂ inspired by nature

Metal assisted catalytic reactions in compressed CO₂

Activation of CO₂ via formation of metal-CO₂ complexes or insertion into metal-heteroatom bonds

Visit the website to **read** the latest articles or to **contribute** your article to this issue

Registered Charity Number: 207890

RSC Publishing

www.rsc.org/dalton/CO2

Accept nothing but the best for your research



Journal of Materials Chemistry selects for publication only one in four articles submitted, ensuring only the most **promising and innovative** work is included.

Take a look at some of the high impact applications, properties and syntheses of exciting new materials from leading scientists published recently in **Journal of Materials Chemistry**:

Organic light-emitting diodes based on charge-neutral Os(II) emitters: generation of saturated red emission with very high external quantum efficiency
Yung-Liang Tung, Shin-Wun Lee, Yun Chi, Yu-Tai Tao, Chin-Hsiung Chien, Yi-Ming Cheng, Pi-Tai Chou, Shie-Ming Peng and Chao-Shiuan Liu

Self-assembled nanoarchitectures of polar nanobelts/nanowires
Zhong Lin Wang

Possible exploitation of magnetic nanoparticle–cell interaction for biomedical applications
Catherine C. Berry

X-Ray photoelectron spectroscopy studies of graphite powder and multiwalled carbon nanotubes covalently modified with Fast Black K: evidence for a chemical release mechanism *via* electrochemical reduction
Gregory G. Wildgoose, Nathan S. Lawrence, Henry C. Leventis, Li Jiang, Timothy G. J. Jones and Richard G. Compton

Applications of hybrid organic–inorganic nanocomposites
Clément Sanchez, Beatriz Julián, Philippe Belleville and Michael Popall

Carbon nanotube thin films with ordered structures
Chunsheng Du, Jeff Yeh and Ning Pan

Metal ammine complexes for hydrogen storage
Claus Hviid Christensen, Rasmus Zink Sørensen, Tue Johannessen, Ulrich J. Quaade, Karoliina Honkala, Tobias D. Elmøe, Rikke Køhler and Jens K. Nørskov

Structural control at the organic–solid interface
Adam B. Braunschweig, Brian H. Northrop and J. Fraser Stoddart

Absence of ferromagnetism in Mn- and Co-doped ZnO
C. N. R. Rao and F. L. Deepak

Advances in organic field-effect transistors
Yanming Sun, Yunqi Liu and Daoben Zhu

Journal of Materials Chemistry - high impact, high quality, high visibility