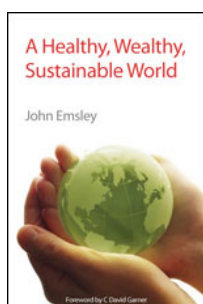


Publications in Brief

BOOKS

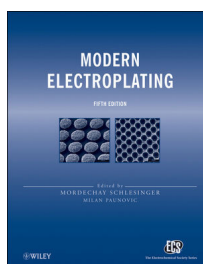
“Healthy, Wealthy, Sustainable World”



J. Emsley (UK), Royal Society of Chemistry, Cambridge, UK, 2010, 248 pages, ISBN 978-1-84755-862-6, £18.99

The themes of this general reader book relate to the importance of chemistry in everyday life, the benefits chemicals currently bring, and how the use of chemicals can continue on a sustainable basis. Topics covered include: health, food (the role of agrochemicals and food chemists), water (drinking water; the seas as a source of raw materials), fuels, plastics (can they be sustainable?), cities and sport.

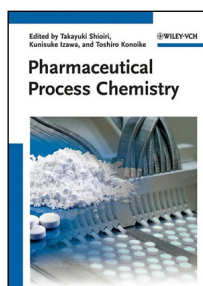
“Modern Electroplating”, 5th Edition



Edited by M. Schlesinger (University of Windsor, Windsor, Ontario, Canada) and M. Paunovic (USA), John Wiley & Sons, Inc, Hoboken, New Jersey, USA, 2010, 736 pages, ISBN 978-0-470-16778-6, £100.00, €120.00, US\$149.95; e-ISBN: 9780470602638

This expanded new edition places emphasis on electroplating and electrochemical plating in nanotechnologies, data storage and medical applications. It includes chapters on ‘Palladium Electroplating’ and ‘Electroless Deposition of Palladium and Platinum’.

“Pharmaceutical Process Chemistry”



Edited by T. Shioiri (Japan), K. Izawa (Ajinomoto Co, Inc, Japan) and T. Konoike (Shionogi & Co, Ltd, Japan), Wiley-VCH Verlag GmbH & Co KGaA, Weinheim, Germany, 2011, 526 pages, ISBN 978-3-527-32650-1, £125.00, €150.00, US\$210.00; e-ISBN 9783527633678

This book covers the basic chemistry needed for future developments and key techniques in the pharmaceutical industry, as well as morphology, engineering and regulatory issues.

Recent examples of industrial production of active pharmaceutical ingredients are given. It includes chapters on ‘Development of Palladium Catalysts for Chemoselective Hydrogenation’, ‘Silicon-Based Carbon–Carbon Bond Formation by Transition Metal Catalysis’ and ‘Direct Reductive Amination with Amine Boranes’.

JOURNALS

Geoscience Frontiers



Editor-in-Chief: X. X. Mo (China University of Geosciences (Beijing), China); China University of Geosciences (Beijing), Peking University and Elsevier BV; ISSN 1674-9871

Geoscience Frontiers (GSF) is a new quarterly journal under the joint sponsorship of the China University of Geosciences (Beijing) and Peking University. Co-published with Elsevier, *GSF* publishes original research articles and reviews of recent advances in all fields of earth sciences. Technical papers, case histories, reviews and discussions are included.

Greenhouse Gases: Science and Technology



Edited by Mercedes Maroto-Valer (Centre for Innovation in Carbon Capture and Storage (CICCS), University of Nottingham, UK) and Curtis Oldenburg (Geologic Carbon Sequestration (GCS) Program, Lawrence Berkeley National Laboratory, USA); Society of Chemical Industry and John Wiley & Sons, Ltd; e-ISSN 2152-3878

Greenhouse Gases: Science and Technology (GHG) is a new quarterly online journal from the Society of Chemical Industry (SCI) and Wiley. *GHG* is dedicated to the management of greenhouse gases through capture, storage, utilisation and other strategies. *GHG* will explore subject areas such as:

- Carbon capture and storage;
- Utilisation of carbon dioxide (CO₂);
- Other greenhouse gases: methane (CH₄), nitrous oxide (N₂O), halocarbons;
- Other mitigation strategies.

High-Temperature Materials



JOM, 2010, **62**, (10)

The theme of this issue of *JOM* is high-temperature materials which includes the following four articles on the topic of nickel-based superalloys:

The Thermodynamic Modeling of Precious-Metal-Modified Nickel Based Superalloys

F. Zhang, J. Zhu, W. Cao, C. Zhang and Y. A. Chang, *JOM*, 2010, **62**, (10), 35

Precious-Metal-Modified Nickel-Based Superalloys: Motivation and Potential Industry Applications

A. Bolcavage and R. C. Helmink, *JOM*, 2010, **62**, (10), 41

The Use of Precious-Metal-Modified Nickel-Based Superalloys for Thin Gage Applications

D. L. Ballard and A. L. Pilchak, *JOM*, 2010, **62**, (10), 45

A Combined Mapping Process for the Development of Platinum-Modified Ni-Based Superalloys

A. J. Heidloff, Z. Tang, F. Zhang and B. Gleeson, *JOM*, 2010, **62**, (10), 48

21st International Symposium on Chemical Reaction Engineering (ISCRE 21)



Ind. Eng. Chem. Res., 2010, **49**, (21), 10153–11120

ISCRE 21 was held in Philadelphia, Pennsylvania, USA, from 13th–16th June 2010. The symposium focused on the role of chemical reaction engineering in addressing resource sustainability, environmental and

life science challenges. The topics covered included rational design of catalysts, computational catalysis, reaction path analysis, dynamics of chemical reactors, multiphase and reacting flows, environmental reaction engineering, microreactors, membrane reactors, process intensification, fuel cells, bioderived chemicals and fuels, clean coal conversion processes,

CO₂ capture and utilisation, hydrogen production and utilisation, and novel functional materials. This ISCRE 21 special issue of *Industrial & Engineering Chemistry Research* consists of Invited Perspectives by the plenary speakers, as well as regular, full-length contributed papers by the other authors.

Recent Advances in the *in-situ* Characterization of Heterogeneous Catalysts



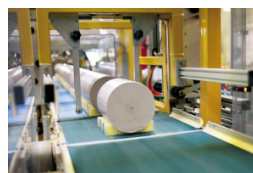
Chem. Soc. Rev., 2010, **39**, (12), 4541–5072

The 28 review articles of this themed issue of *Chemical Society Reviews* cover the advantages, limitations, challenges and future possibilities of *in situ* characterisation techniques for “elucidating the ‘genesis’ and

working principles of heterogeneous catalysts”. Bert Weckhuysen (Inorganic Chemistry and Catalysis Group, Debye Institute for Nanomaterials Science, Utrecht University, The Netherlands) assembled this issue on *in situ* characterisation of catalytic solids.

ON THE WEB

Global Emissions Management



Latest issue: Volume 3, Issue 01 (November 2010)

Johnson Matthey Environmental Catalysts and Technologies' *Global Emissions Management (GEM)* publi-

cation featuring developments in emissions control is now online. Free subscription to *GEM* online allows subscribers to:

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