Journal of Materials Chemistry

www.rsc.org/materials

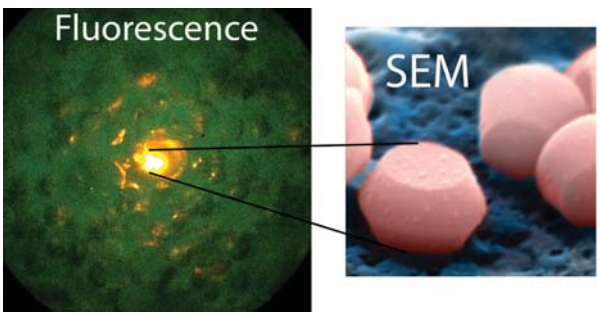
RSC Publishing is a not-for-profit publisher and a division of the Royal Society of Chemistry. Any surplus made is used to support charitable activities aimed at advancing the chemical sciences. Full details are available from www.rsc.org

IN THIS ISSUE

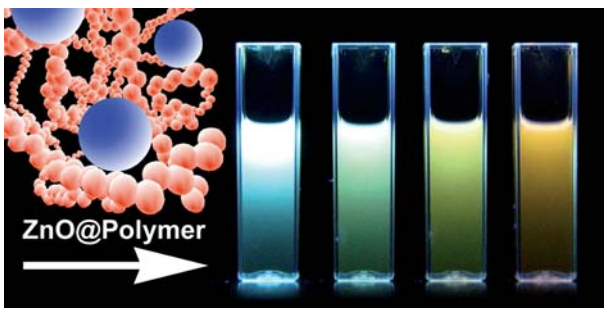
ISSN 0959-9428 CODEN JMACEP 20(21) 4233–4460 (2010)

Cover
See G. Jutz and A. Böker, pp. 4299–4304.
Protein and bionanoparticle stabilized Pickering emulsions as novel approaches for the synthesis of (bio-)inorganic hybrid materials.
Image reproduced by permission of Alexander Böker from *J. Mater. Chem.*, 2010, **20**, 4299.

HIGHLIGHT



FEATURE ARTICLE



Journal of Materials Chemistry (print: ISSN 0959-9428; electronic: ISSN 1364-5501) is published 48 times a year by the Royal Society of Chemistry, Thomas Graham House, Science Park, Milton Road, Cambridge, UK CB4 0WF. All orders, with cheques made payable to the Royal Society of Chemistry, should be sent to RSC Distribution Services, c/o Portland Customer Services, Commerce Way, Colchester, Essex, UK CO2 8HP. Tel +44 (0)1206 226050; E-mail sales@rscdistribution.org

2010 Annual (print+electronic) subscription price: £2502; US$4671. 2010 Annual (electronic) subscription price: £2252; US$4204. Customers in Canada will be subject to a surcharge to cover GST. Customers in the EU subscribing to the electronic version only will be charged VAT. If you take an institutional subscription to any RSC journal you are entitled to free, site-wide web access to that journal. You can arrange access *via* Internet Protocol (IP) address at www.rsc.org/ip. Customers should make payments by cheque in sterling payable on a UK clearing bank or in US dollars payable on a US clearing bank. Periodicals postage paid at Rahway, NJ, USA and at additional mailing offices. Airfreight and mailing in the USA by Mercury Airfreight International Ltd., 365 Blair Road, Avenel, NJ 07001, USA.

US Postmaster: send address changes to Journal of Materials Chemistry, c/o Mercury Airfreight International Ltd., 365 Blair Road, Avenel, NJ 07001. All despatches outside the UK by Consolidated Airfreight.

Journal of Materials Chemistry

www.rsc.org/materials

Journal of Materials Chemistry is a weekly, international journal that publishes high impact original research that demonstrates novelty and advance, either in the chemistry used to produce materials or in the properties and applications of the materials produced. Coverage of the field is broad and includes the design and synthesis of materials, their characterization, modelling, properties and applications.

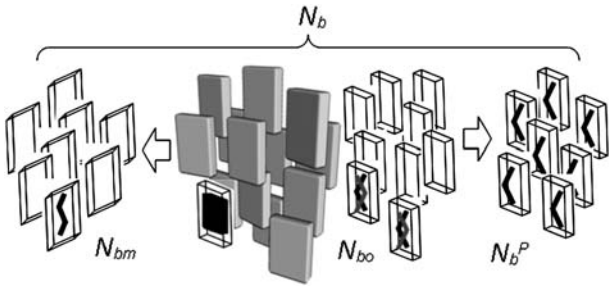
INFORMATION FOR AUTHORS

Full details on how to submit material for publication in Journal of Materials Chemistry are given in the Instructions for Authors (available from http://www.rsc.org/authors). Submissions should be made *via* the journal's homepage: http://www.rsc.org/materials.

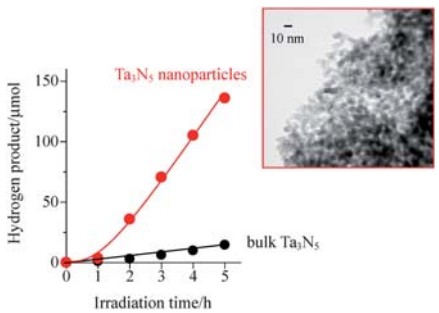
Submissions: The journal welcomes submissions of manuscripts for publication as Full Papers, Communications, Feature Articles, Highlights and Applications. Full Papers and Communications should describe original work of high quality and impact which must highlight the novel properties or applications (or potential properties/applications) of the materials studied.

Colour figures are reproduced free of charge where the use of colour is scientifically enhancing. Authors who wish to publish other figures in colour will be asked to contribute towards the costs of colour reproduction.
Additional details are available from the Editorial Office or http://www.rsc.org/authors

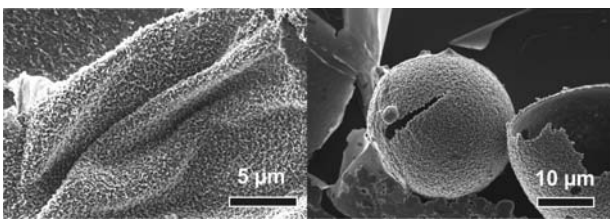
20TH ANNIVERSARY ARTICLE

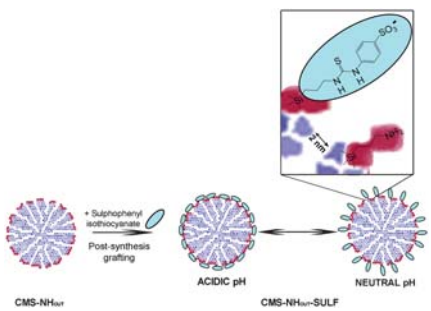


COMMUNICATION



PAPERS





MACRO2010

43rd IUPAC World Polymer Congress

Polymer Science in the Service of Society

11 - 16 July 2010
SECC, Glasgow, UK

'Macro2010' is the latest in the series of the biennial meetings of the IUPAC Polymer Division. With a history spanning several decades, this is the largest international multi-symposium conference dedicated to all aspects of polymer science and engineering.

Themes

- Delivering New Polymers for Service in Society: Advances in Polymer Chemistry
- Molecular to Macroscopic Behaviour of Polymers
- Sustainability: Renewable Resources and Environmentally-Friendly Polymers
- Polymers in Support of Life
- Functional Polymers for Electronics, Energy and Analysis
- Polymer Science in Everyday Life
- Advances in Colloidal and Nanosize Polymer Materials
- Young Polymer Scientists: Contributions, Nurturing and Networking

A more detailed list of topics and invited speakers are published on our regularly updated website **www.MACRO2010.org.**

Confirmed Plenary Speakers

Professor Jean M J Fréchet
University of California, Berkeley, USA

Professor Sir Richard Friend, FRS
University of Cambridge, UK

Professor Ming Jiang
Fudan University, China

Professor Laura Kiessling
University of Wisconsin-Madison, USA

Professor Kiyohito Koyama
Yamagata University, Japan

Professor Ludwik Leibler
ESPCI CNRS, Paris, France

Register Now!

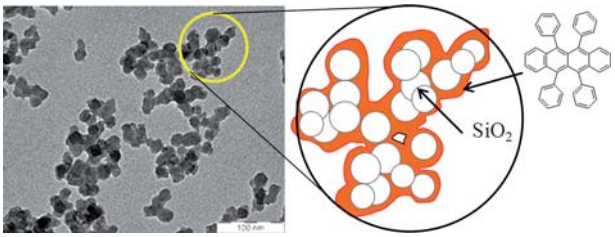
Take advantage of available discounts by registering early. Book your place at **www.MACRO2010.org**

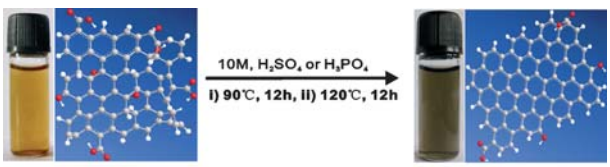
Sponsorship and Exhibition

Promote your organisation at the congress – contact us at **macro2010@rsc.org** for more details

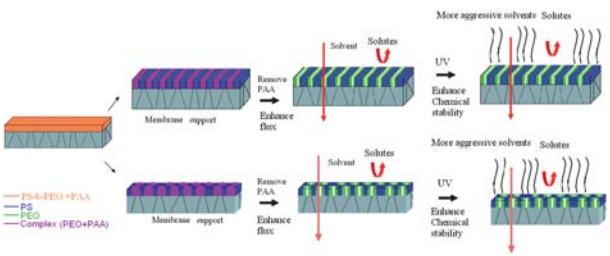
RSC | Advancing the Chemical Sciences

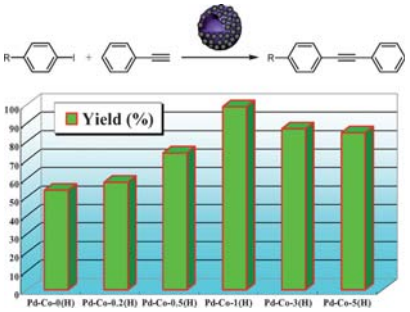
www.MACRO2010.org

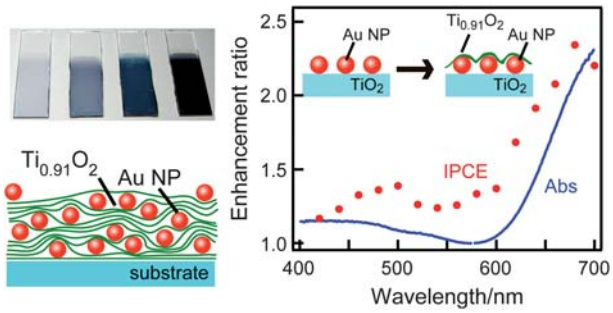


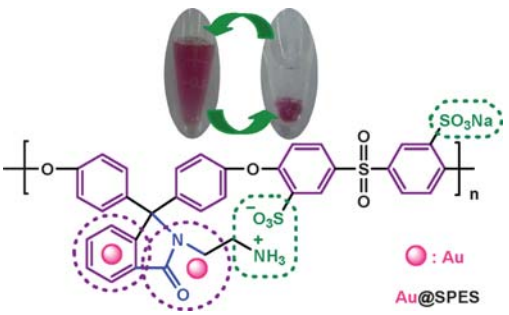


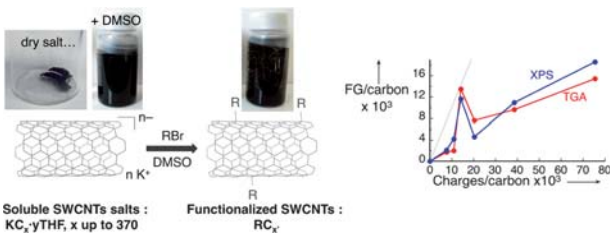
Carbon in grey, oxygen in red and hydrogen in white

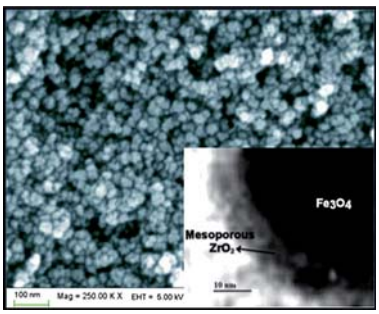


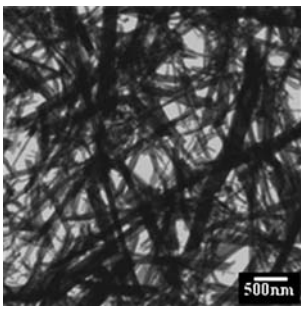


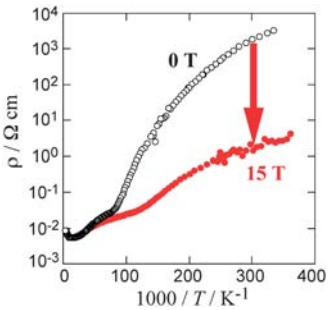


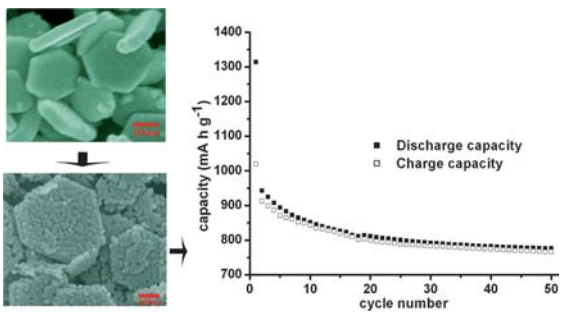












AUTHOR INDEX

FREE E-MAIL ALERTS AND RSS FEEDS

Contents lists in advance of publication are available on the web *via* www.rsc.org/materials – or take advantage of our free e-mail alerting service (www.rsc.org/ej_alert) to receive notification each time a new list becomes available.

Try our RSS feeds for up-to-the-minute news of the latest research. By setting up RSS feeds, preferably using feed reader software, you can be alerted to the latest Advance Articles published on the RSC web site. Visit www.rsc.org/publishing/technology/rss.asp for details.

ADVANCE ARTICLES AND ELECTRONIC JOURNAL

Free site-wide access to Advance Articles and the electronic form of this journal is provided with a full-rate institutional subscription. See www.rsc.org/ejs for more information.

* Indicates the author for correspondence: see article for details.

Electronic supplementary information (ESI) is available *via* the online article (see http://www.rsc.org/esi for general information about ESI).

International Symposia on Advancing the Chemical Sciences (ISACS)

REGISTER BY 1 MAY 2010 FOR REDUCED RATES

Challenges in Inorganic and Materials Chemistry (ISACS3)

20-23 July 2010 ● Hong Kong, China

Topical

Gain a state-of-the-art review of current research developments and identify future challenges in a comprehensive plenary programme. **Book by 1 May 2010 for reduced delegate fees and discounted room rates at the conference hotel.**

Interactive

Network with the editors of *Chemical Science* and international colleagues and present your research in the poster sessions.

Dynamic

Hear from a new generation of exceptional, internationally renowned researchers.

About ISACS

The International Symposia on Advancing the Chemical Sciences (ISACS) is a significant new global symposia series, supporting the launch of the new RSC flagship journal *Chemical Science* and in association with *ChemComm* and *Chem Soc Rev*. Related events include:

Challenges in Organic Chemistry and Chemical Biology
6-9 July 2010 ● San Francisco, USA ● www.rsc.org/isacs1

Challenges in Physical Chemistry and Nanoscience
13-16 July 2010 ● Budapest, Hungary ● www.rsc.org/isacs2

Hear from

Christopher J Chang, *USA*
Chi-Ming Che, *China*
Christopher C Cummins, *USA*
Makoto Fujita, *Japan*
Michael Grätzel, *Switzerland*
Hansjörg Grützmacher, *Switzerland*
Gregory L Hillhouse, *USA*
Susumu Kitagawa, *Japan*
Jeffrey R Long, *USA*
Tetsuro Murahashi, *Japan*
Daniel G Nocera, *USA*
Philip P Power, *USA*
Manfred Scheer, *Germany*
Jean-Marie Tarascon, *France*
Bing Xu, *USA*
Omar M Yaghi, *USA*
Vivian W W Yam, *China*
Peidong Yang, *USA*

Conference Committee

Christopher C Cummins, *USA (Chair)*
Che-Ming Che, *China*
Jeffrey R Long, *USA*
Bing Xu, *USA*
Vivian W W Yam, *China*

Sign up for news updates and book your delegate place today at:

RSC | Advancing the Chemical Sciences

www.rsc.org/isacs3