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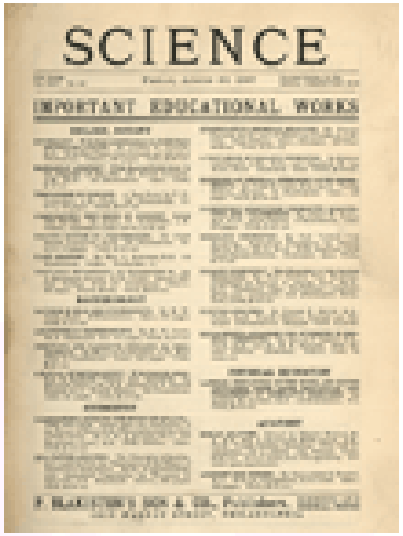

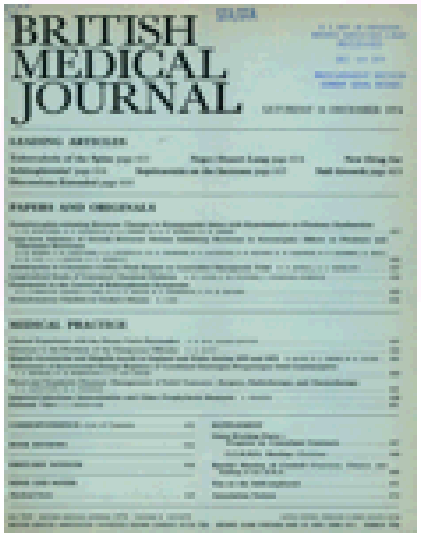

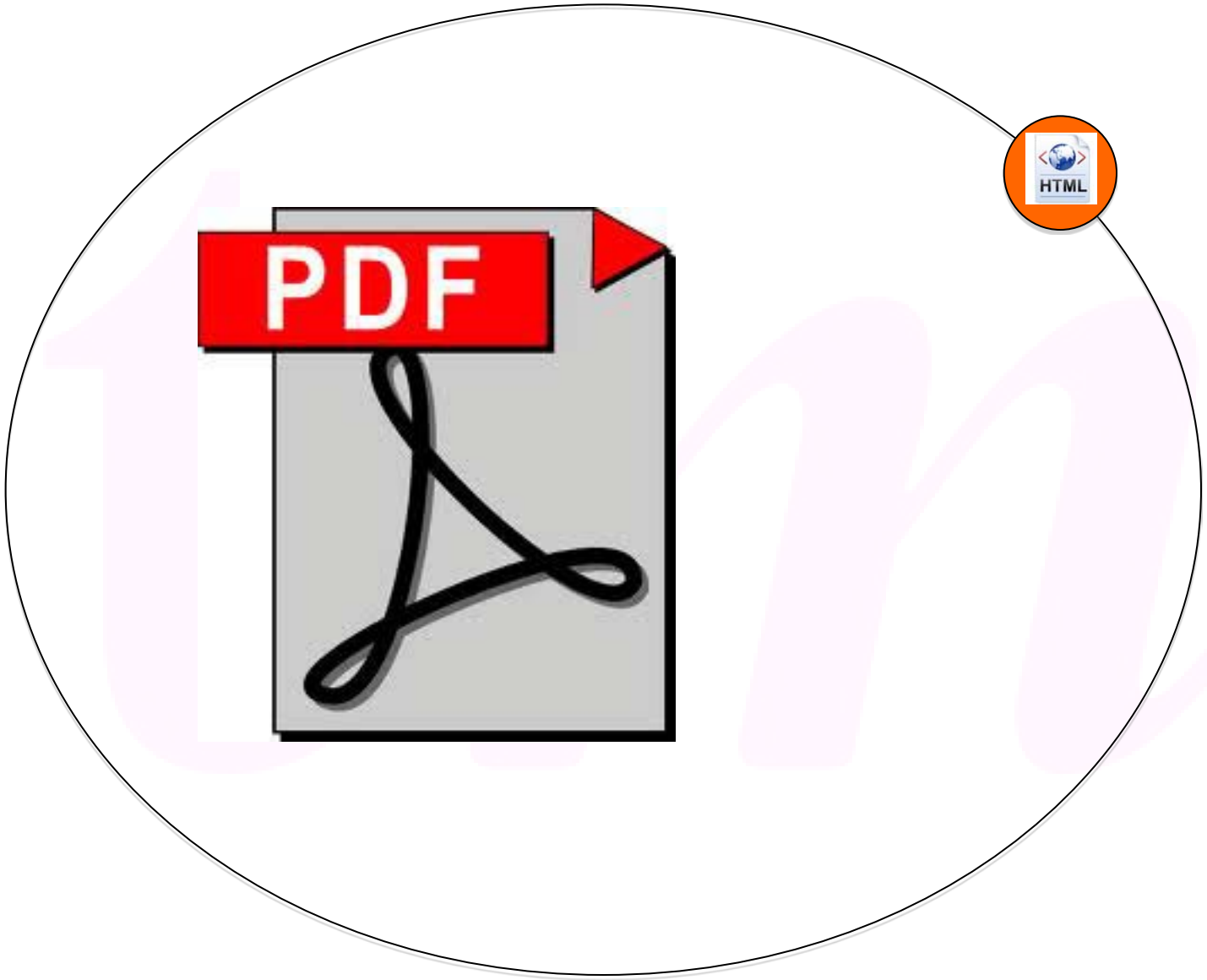
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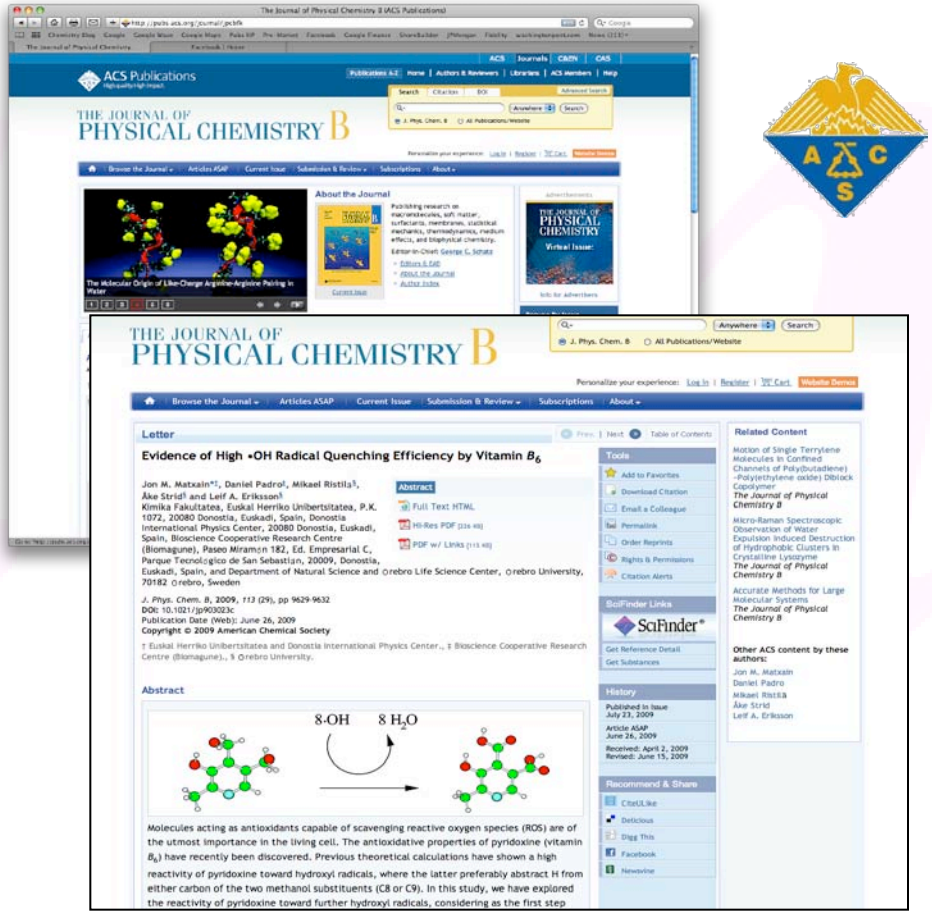

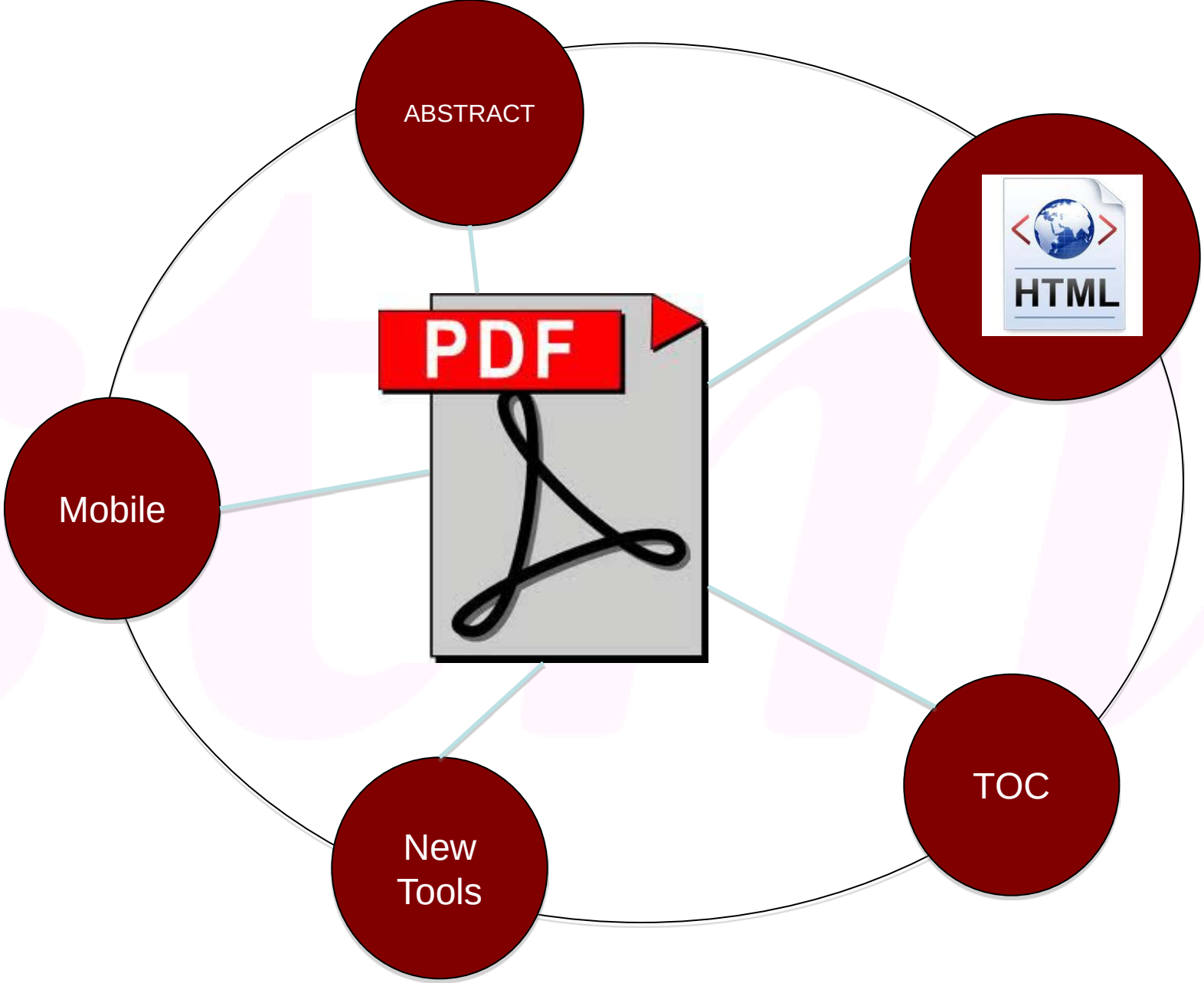
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Tracking of Multimodal Therapeutic Nanocomplexes Targeting Breast Cancer in Vivo

Rizia Bardhan, Wenxue Chen, Marc Bartels, Carlos Perez-Torres, Maria F. Botero, Robin Ward McAninch, Alejandro Contreras, Rachel Schiff, Robia G. Pautler, Naomi J. Halas, and Amit Joshi

Publication Date (Web): November 22, 2010 (Letter)

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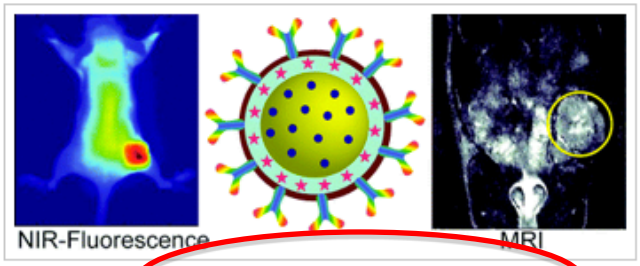

Figure 1 of 7 Next

Measuring Porosity at the Nanoscale by Quantitative Electron Tomography

E. Biermans, L. Molina, K. J. Batenburg, S. Bals, and G. Van Tendeloo

Publication Date (Web): November 22, 2010 (Letter)
DOI: 10.1021/nl103172r

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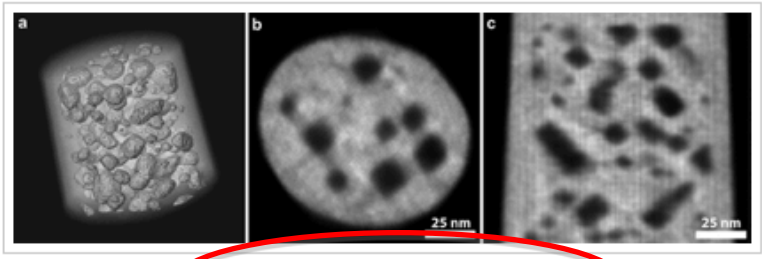

Figure 1 of 6 Next

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Table of Contents

Simultaneous Noncontact Topography and Electrochemical Imaging by SECM/SICM Featuring Ion Current Feedback Regulation

Yasufumi Takahashi‡, Andrew I. Shevchuk‡, Pavel Novak‡, Yumi Murakami‡, Hitoshi Shiku‡, Yuri E. Korchev*‡ and Tomokazu Matsue*‡
Graduate School of Environmental Studies, Tohoku University, Aramaki Aoba 6-6-11-605, Sendai 980-8579, Japan, and Division of Medicine, Imperial College London, Hammersmith Hospital Campus, London W12 0NN, United Kingdom

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J. Am. Chem. Soc., **2010**, *132* (29), pp 10118-10126
DOI: 10.1021/ja1029478
Publication Date (Web): June 30, 2010

matsue@bioinfo.che.tohoku.ac.jp, † Tohoku University., ‡ Imperial College London.

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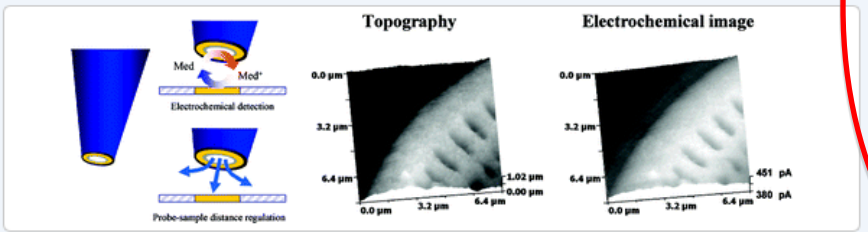

We described a hybrid system of scanning electrochemical microscopy (SECM) and scanning ion conductance microscopy (SICM) with ion current feedback nanopositioning control for simultaneous imaging of noncontact topography and spatial distribution of electrochemical species. A nanopipette/nanoring electrode probe provided submicrometer resolution of the electrochemical measurement on surfaces with complex topology. The SECM/SICM probe had an aperture radius of 220 nm. The inner and outer radii of the SECM Au nanoring electrode

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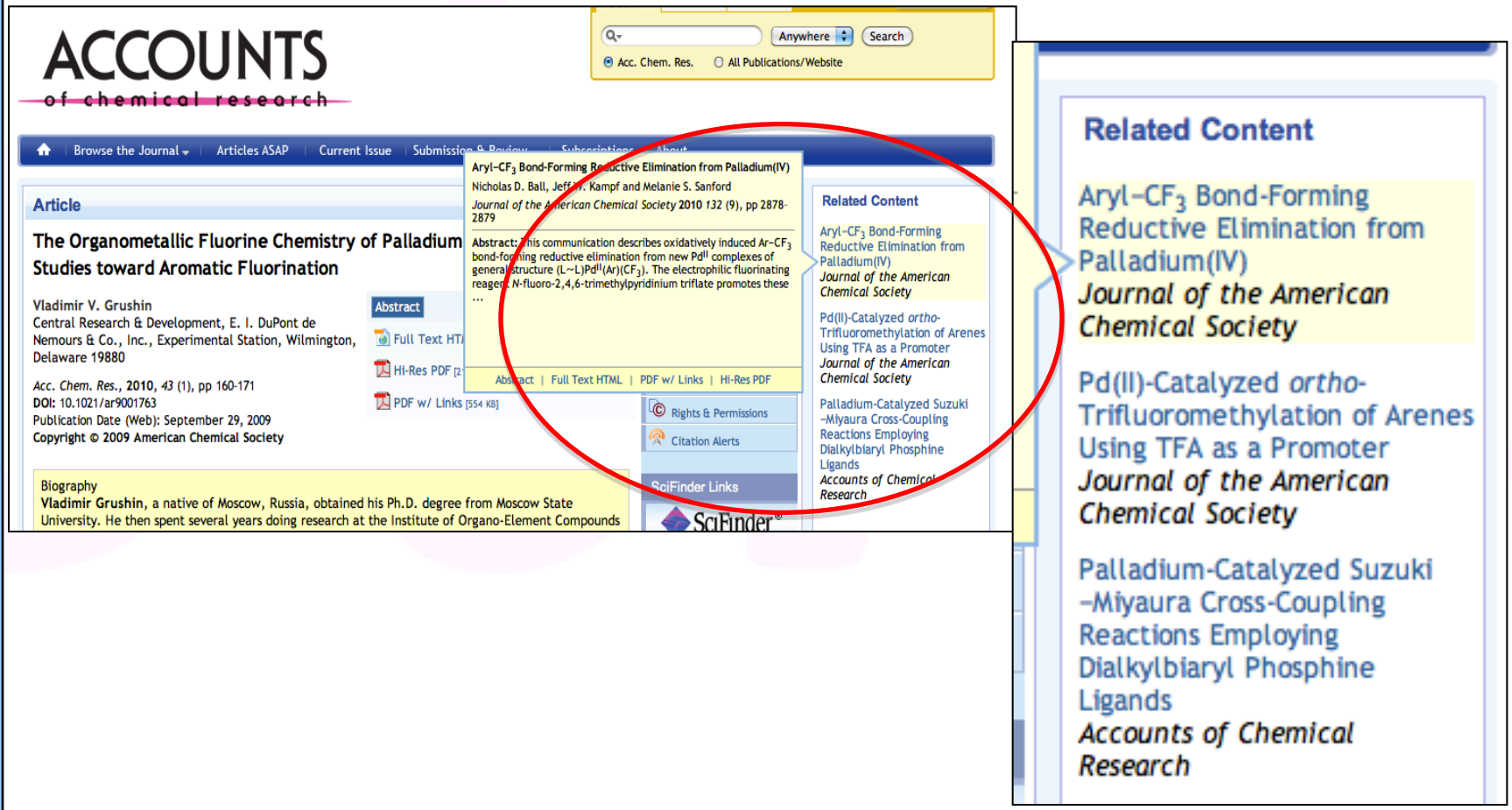

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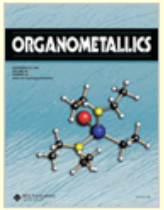

Carbon–Hydrogen Bond Oxidative Addition of Partially Fluorinated Aromatics to a Ni(P^iPr_3)$_2$ Synthon: The Influence of Steric Bulk on the Thermodynamics and Kinetics of C–H Bond Activation
Jillian A. Hatnean, Robert Beck, Jenna D. Borrelli, and Samuel A. Johnson
Organometallics
2010 *29* (22), 6077-6091

Oxidation of a Cyclometalated Pd(II) Dimer with "CF_3^+": Formation and Reactivity of a Catalytically Competent Monomeric Pd(IV) Aquo Complex
Yingda Ye, Nicholas D. Ball, Jeff W. Kampf, and Melanie S. Sanford
Journal of the American Chemical Society
2010 *132* (41), 14682-14687

Fluxionality of [(Ph_3P)$_3$M(X)] (M = Rh, Ir). The Red and Orange Forms of [(Ph_3P)$_3$Ir(Cl)]. Which Phosphine Dissociates Faster from Wilkinson's Catalyst?
Jenni Goodman, Vladimir V. Grushin, Roman B. Larichev, Stuart A. Macgregor, William J. Marshall and D. Christopher Roe
Journal of the American Chemical Society
2010 *132* (34), 12013-12026

Carbon–Hydrogen Bond Oxidative Addition of Partially Fluorinated Aromatics to a Ni(P^iPr_3)$_2$ Synthon: The Influence of Steric Bulk on the Thermodynamics and Kinetics of C–H Bond Activation

Jillian A. Hatnean, Robert Beck, Jenna D. Borrelli, and Samuel A. Johnson

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2010 *29* (22), 6077-6091

The reaction of (PiPr3)2NiCl2 with the anthracene adduct (THF)3Mg(η2-C14H10) in THF provides the anthracene adduct (PiPr3)2Ni(η2-C14H10). In aromatic solvents (benzene, toluene, mesitylene) a thermal equilibrium exists between the bis(phosphine)nickel(0) ...

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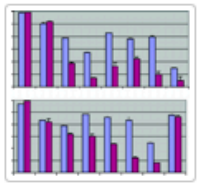
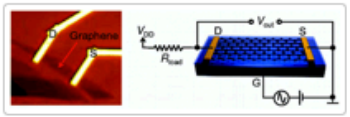
Correlating Physico-Chemical with Toxicological Properties of Nanoparticles: The Present and the Future

Pilar Rivera Gil, Günter Oberdörster, Alison Elder, Víctor Puntes, and Wolfgang J. Parak



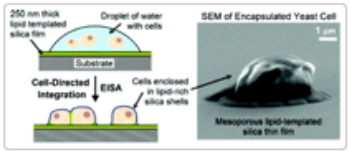
Triple-Mode Single-Transistor Graphene Amplifier and Its Applications

Xuebei Yang, Guanxiong Liu, Alexander A. Balandin, and Kartik Mohanram



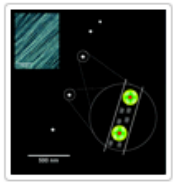
Cell-Directed Integration into Three-Dimensional Lipid–Silica Nanostructured Matrices

Jason C. Harper, Constantine Y. Khirpin, Eric C. Carnes, Carlee E. Ashley, DeAnna M. Lopez, Travis Savage, Howland D. T. Jones, Ryan W. Davis, Dominique E. Nunez, Lina M. Brinker, Bryan Kaehr, Susan M. Brozik, and C. Jeffrey Brinker



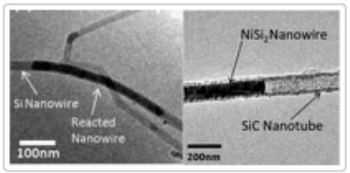
Structure–Property Correlations in Hybrid Polymer–Nanoparticle Electrospun Fibers and Plasmonic Control over their Dichroic Behavior

Nikhil Sharma, Steven J. McKeown, Xin Ma, Darrin J. Pochan, and Sylvain G. Cloutier



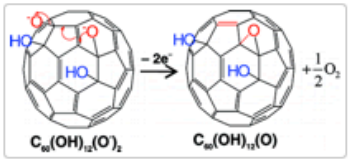
Nanostructural Transformation and Formation of Heterojunctions from Si Nanowires

Tai Lun Wong, Chun Cheng, Wei Li, Kwok Kwong Fung, and Ning Wang



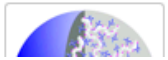
Efficient Synthesis of Fullerenol in Anion Form for the Preparation of Electrodeposited Films

Fang F. Wang, Ning Li, Dong Tian, Guo F. Xia, and Ning Xiao



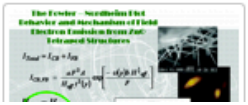
Efficient Inhibition of C-26 Colon Carcinoma by VSVMP Gene Delivered by Biodegradable Cationic Nanogel Derived from Polyethyleneimine

MaLing Gou, Ke Men, Juan Zhang, YuHua Li, Jia Song, Shan Luo, HuaShan Shi, YanJun Wen, Gang Guo, MeiJuan Huang, Xia Zhao, ZhiYong Qian, and YuQuan Wei



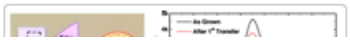
The Fowler–Nordheim Plot Behavior and Mechanism of Field Electron Emission from ZnO Tetrapod Structures

Ahmed A. Al-Tabbakh, Mahendra A. More, Dilip S. Joag, Imtiaz S. Mulla, and Vijayamohanan K. Pillai



Layer-by-Layer Transfer of Multiple, Large Area Sheets of Graphene Grown in Multilayer Stacks on a Single SiC Wafer

Sakulsuk Unarunotai, Justin C. Koepke, Cheng-Lin Tsai, Frank Du, Cesar E. Chialvo, Yuya Murata, Rick Haasch, Ivan Petrov, Nadya Mason, Moonsub Shim, Joseph Lyding, and John A. Rogers



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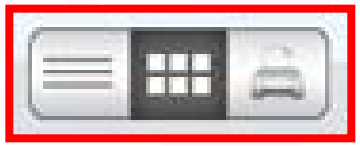

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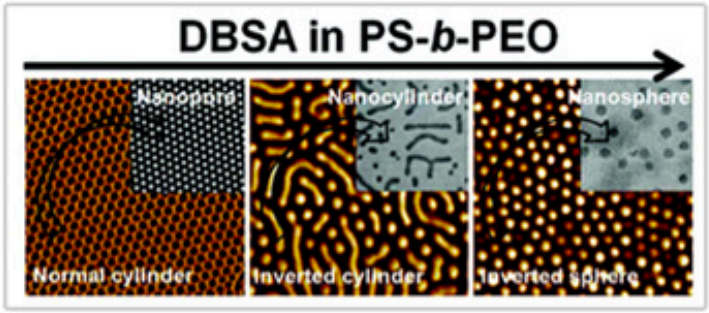
Block Copolymer−Surfactant Complexes in Thin Films for Multiple Usages from Hierarchical Structure to Nano-Objects

Jin Wook Lee, Chansub Lee, Su Yeon Choi and Seung Hyun Kim

DOI: 10.1021/ma901947p



Thin films of block copolymer−surfactant complexes which consist of polystyrene-*b*-poly(ethylene oxide) (PS-*b*-PEO) with dodecylbenzenesulfonic acid (DBSA) hydrogen-bonded to the ether group in PEO blocks, are investigated and characterized by FT-IR, DSC, AFM, TEM, GISAXS, and GIWAXD. The films are solvent-annealed for obtaining controlled orientation and high degree of lateral order of the microdomains. Selective loading of low-mass surfactant into PEO domains leads to morphological transition over wide range of phase diagram in self-assembled nanostructure of block copolymer. In addition, the self-assembly of amphiphilic surfactants combined with block copolymer produces hierarchical structure with multiple length scales and different orientations in thin films. Elimination of surfactants from the complexes by selective solvent, on the other hand, produces various nanostructured materials depending on the amount of surfactants added and microdomain orientation in thin films. Consequently, low-mass amphiphilic surfactants complexed with one component of block copolymer were shown to play multiple roles ranging from generation of hierarchical structures to production of nanoporous films and nano-objects through self-assembly and resultant phase behaviors.

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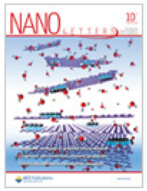

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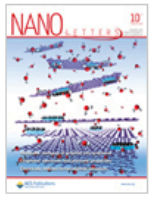

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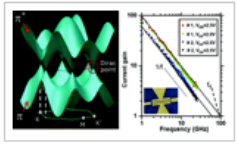

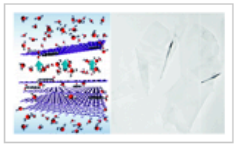

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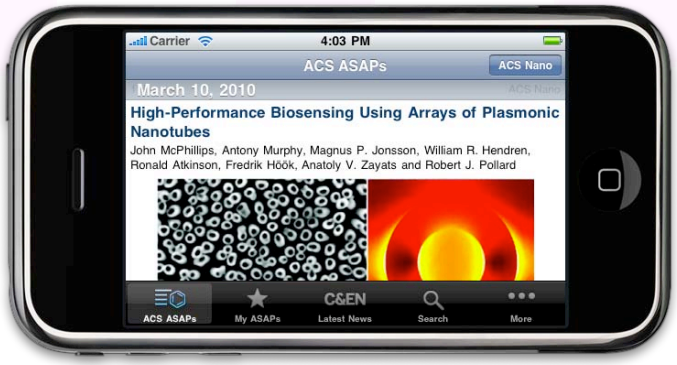

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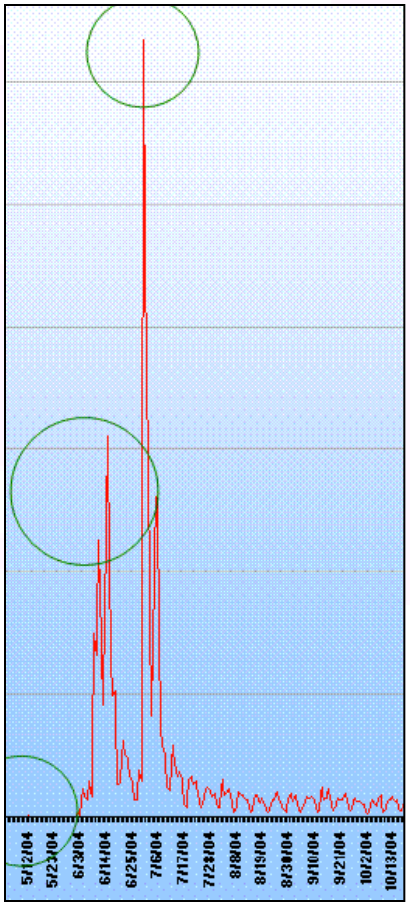

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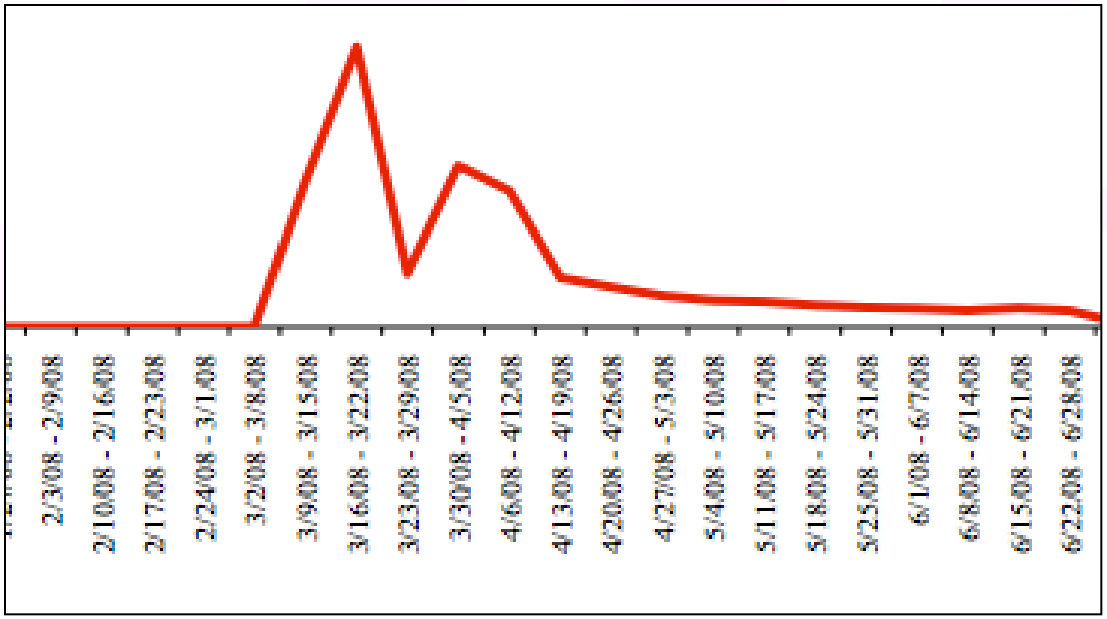

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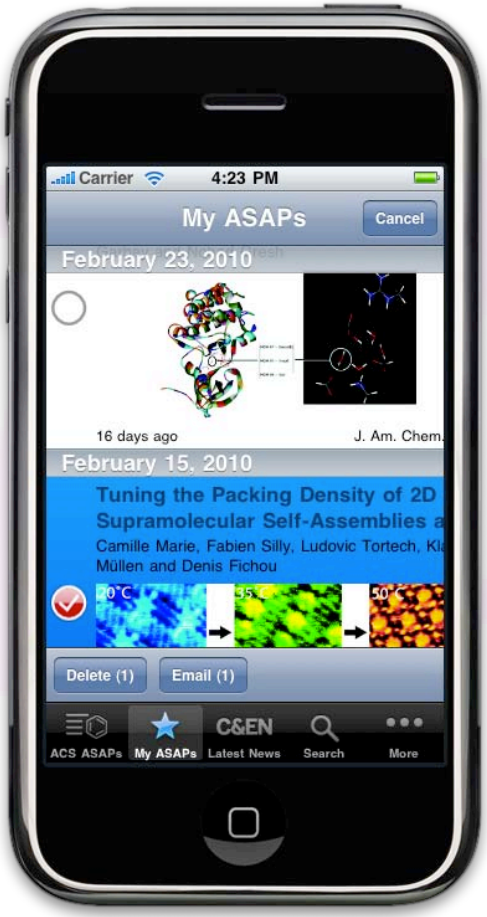

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