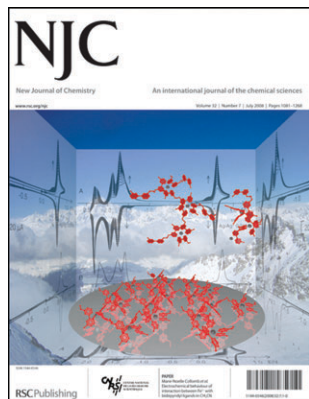


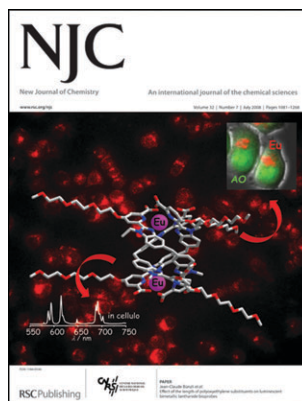
IN THIS ISSUE

ISSN 1144-0546 CODEN NJCHES 32(7) 1081-1268 (2008)



Cover

See Collomb *et al.*, pp. 1117–1123. The cover image shows oligomeric structures being deposited onto a platinum electrode, represented here as a shiny disk. This depiction is housed in a cube formed by some of the cyclic voltammograms recorded during the electrodeposition process. The slight transparency of the frame allows the gorgeous mountains surrounding Grenoble to be viewed in the background. Image reproduced by permission of Marie-Noëlle Collomb from *New J. Chem.*, 2008, **32**, 1117.



Inside Cover

See Bünzli *et al.*, pp. 1140–1152. The cover page illustrates the staining of HeLa (cervix cancer) cells stained by a bimetallic europium helicate, which penetrates into their cytoplasm, as demonstrated by the nucleus-staining agent acridine orange (AO, in green). Image reproduced by permission of Jean-Claude Bünzli from *New J. Chem.*, 2008, **32**, 1140.

CHEMICAL SCIENCE

C49

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Chemical Science

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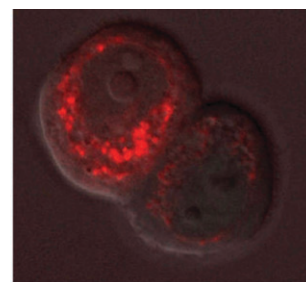
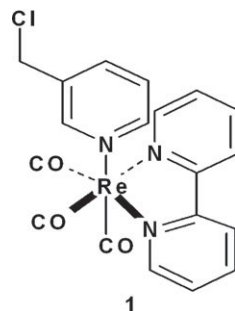
LETTER

1097

3-Chloromethylpyridyl bipyridine *fac*-tricarbonyl rhenium: a thiol-reactive luminophore for fluorescence microscopy accumulates in mitochondria

Angelo J. Amoroso, Richard J. Arthur, Michael P. Coogan,* Jonathan B. Court, Vanesa Fernández-Moreira, Anthony J. Hayes, David Lloyd, Coralie Millet and Simon J. A. Pope

1 is a thiol-selective rhenium fluorophore with a long lifetime and a large Stokes shift that accumulates in the mitochondria of human breast adenocarcinoma cells, providing a ³MLCT analogue of the MitoTracker™ probes.



1 in MCF-7 cells

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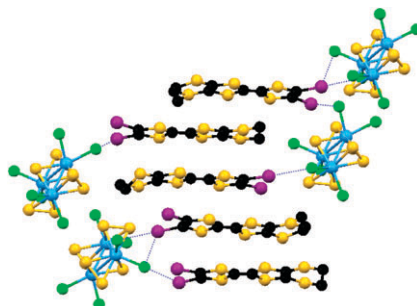
LETTERS

1103

Halogen bonding interactions with the $[\text{Mo}_3\text{S}_7\text{Cl}_6]^{2-}$ cluster anion in the mixed valence salt $[\text{EDT-TTFI}_2]_4[\text{Mo}_3\text{S}_7\text{Cl}_6] \cdot \text{CH}_3\text{CN}$

Antonio Alberola, Marc Fourmigué,*
Carlos J. Gómez-García, Rosa Llusar* and Sonia Triguero

Electrocrystallization of iodinated TTF molecules in presence of trinuclear $[\text{Mo}_3\text{S}_7\text{Cl}_6]^{2-}$ cluster anions provides the first example of radical salts with halogen bonding interactions at the organic/inorganic interface.

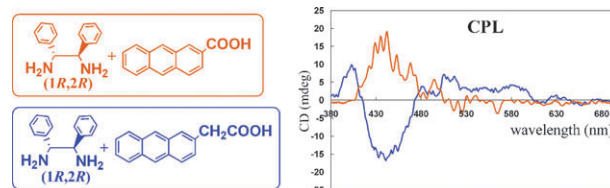


1110

Control of circularly polarized luminescence (CPL) properties by supramolecular complexation

Yoshitane Imai,* Kenta Kawano, Yoko Nakano,
Kakuhiro Kawaguchi, Takunori Harada, Tomohiro Sato,
Michiya Fujiki, Reiko Kuroda and Yoshio Matsubara*

The sign CPL of a chiral 2₁-helical columnar organic fluorophore was successfully controlled by changing an achiral fluorescence component molecule and not by using a chiral component molecule with opposite chirality.

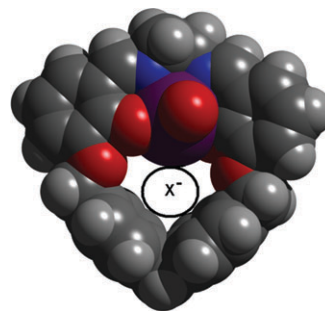


1113

Specific recognition of fluoride anion using a metallamacrocyclic incorporating a uranyl-salen unit

Massimo Cametti, Antonella Dalla Cort, Luigi Mandolini,*
Maija Nissinen and Kari Rissanen*

This newly synthesised neutral receptor binds fluoride anions in DMSO with a high affinity constant ($K > 10^6 \text{ M}^{-1}$) while exhibiting a negligible affinity ($K \leq 10 \text{ M}^{-1}$) towards otherwise effective competitors, such as acetate, phosphate and cyanide anions.



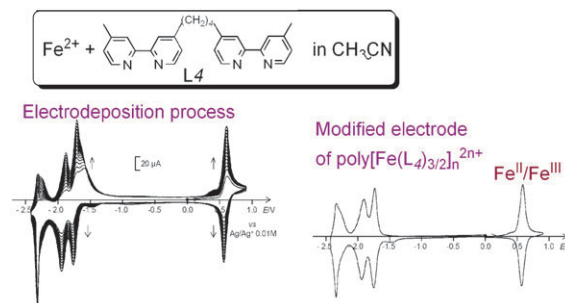
PAPER

1117

Electrochemical behaviour of interaction between Fe^{2+} with bisbipyridyl ligands in CH_3CN . Application to an easy electrochemical procedure for tailoring films of $\text{Fe}(\text{bpy})_3^{2+}$ like cores (bpy = 2,2'-bipyridine)

Jean Lombard, Jean-Claude Leprêtre, Damien Jouvenot,
Alain Deronzier* and Marie-Noëlle Collomb*

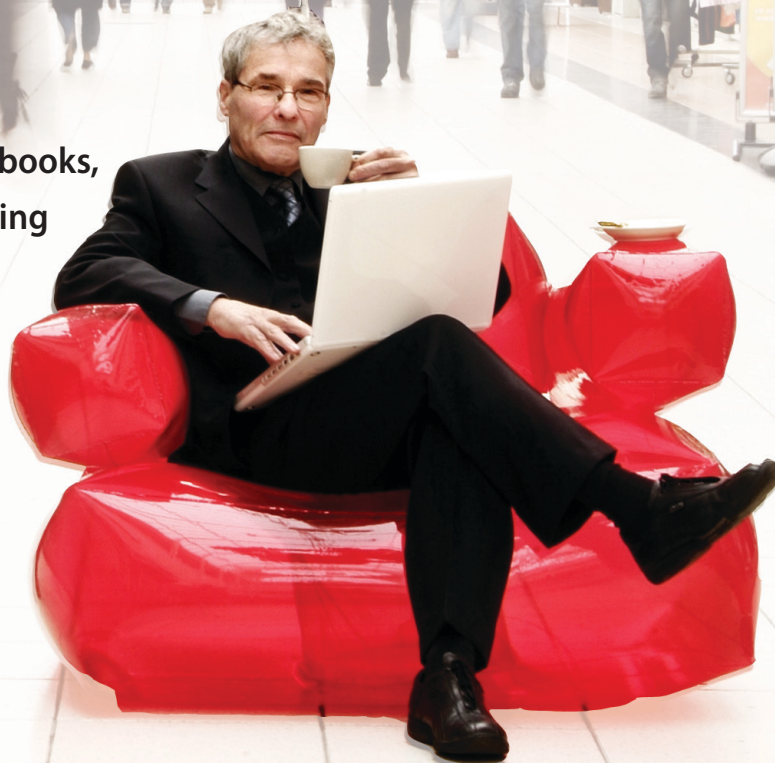
A simple electrochemical procedure to tailor very robust thin films containing the $\text{Fe}(\text{bpy})_3^{2+}$ -like core, based on the electroreductive precipitation of soluble oligomers formed by mixing Fe^{2+} and alkyl bridged bis-bipyridyl ligands.



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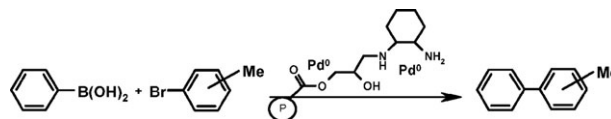
PAPERS

1124

Palladium(0) nanoparticles encapsulated in diamine-modified glycidyl methacrylate polymer (GMA-CHDA) applied as catalyst of Suzuki–Miyaura cross-coupling reaction

Anna M. Trzeciak,* Ewa Mieczynska, Józef J. Ziółkowski, Wiktor Bukowski, Agnieszka Bukowska, Jarosław Noworól and Janina Okal

Diamine-modified glycidyl methacrylate polymer was used to encapsulate Pd(0) nanoparticles 4–15 nm in diameter, applied as a catalyst of Suzuki–Miyaura reactions.

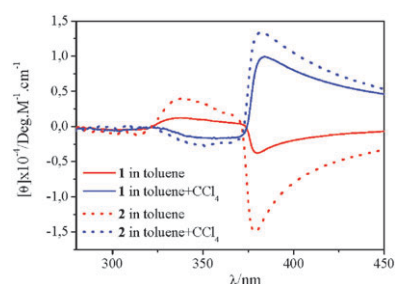


1131

Influence of the gelator structure and solvent on the organisation and chirality of self-assembling fibrillar networks

Quoc Nghi Pham, Nicolas Brosse, Céline Frochot, Dominique Dumas, Alexandre Hocquet and Brigitte Jamart-Grégoire*

CD experiments show that the nature of the solvent can modify the chirality of self-assembled aggregates.

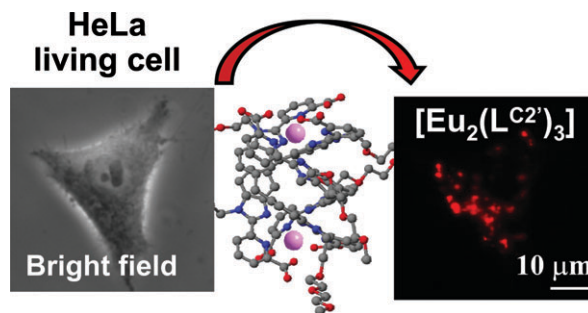


1140

Effect of the length of polyoxyethylene substituents on luminescent bimetallic lanthanide bioprobes

Emmanuel Deiters, Bo Song, Anne-Sophie Chauvin, Caroline D. B. Vandevyver and Jean-Claude G. Bünzli

The self-assembled Eu^{III} bimetallic helicate with a new homoditopic ligand fitted with hexakis(oxyethylene) pendants displays high thermodynamic stability, no cytotoxicity, and stains the cytoplasm of HeLa cells.

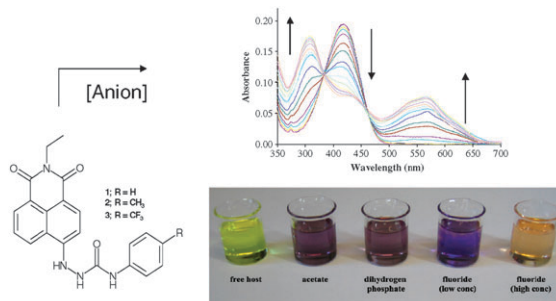


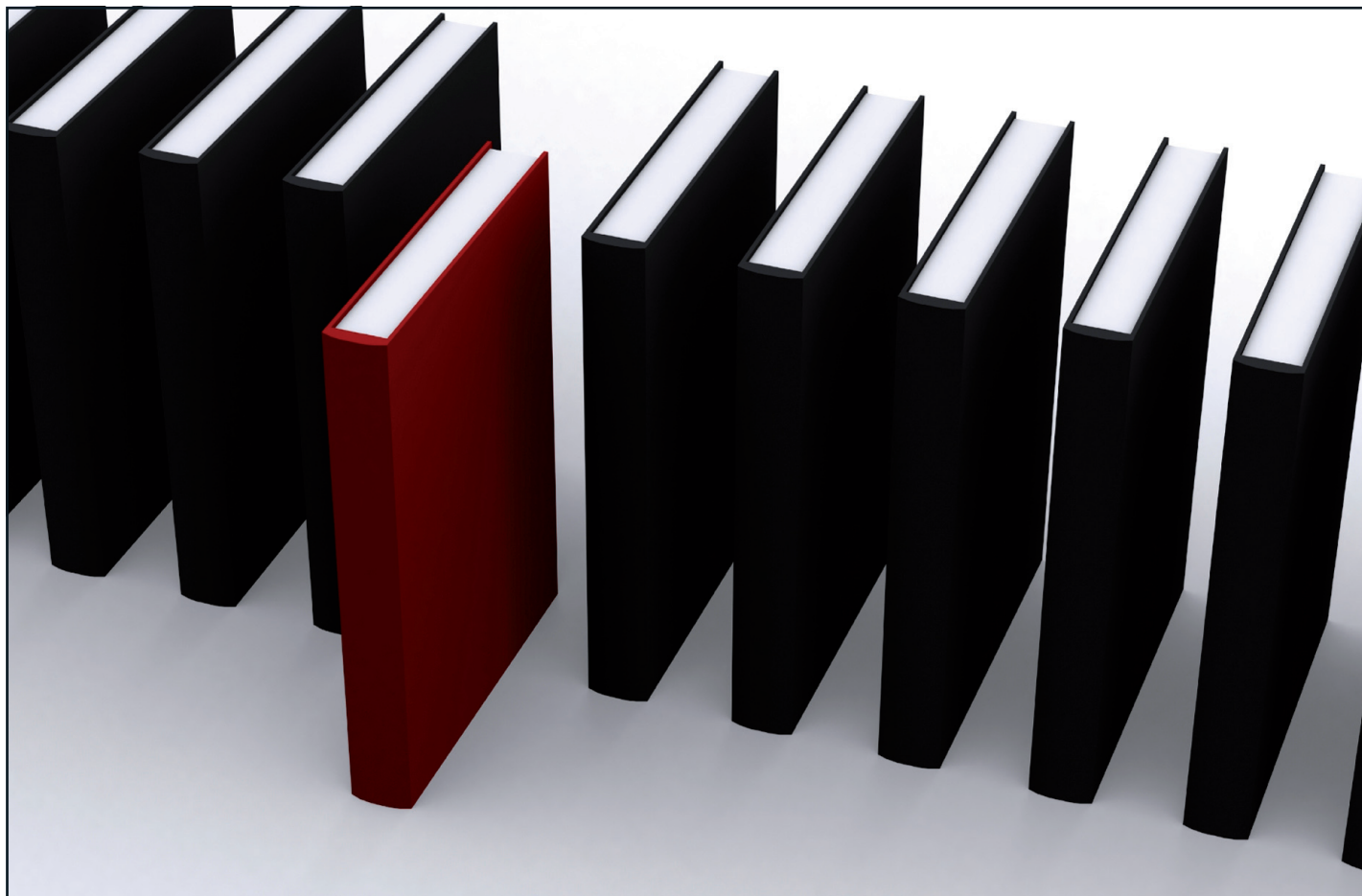
1153

Colorimetric ‘naked-eye’ and fluorescent sensors for anions based on amidourea functionalised 1,8-naphthalimide structures: anion recognition via either deprotonation or hydrogen bonding in DMSO

Haslin Dato Paduka Ali, Paul E. Kruger* and Thorfinnur Gunnlaugsson*

The sensing of anions using charge neutral colorimetric sensors is described. We demonstrate that the anion recognition has significant effect on both the absorption and the fluorescence spectra.





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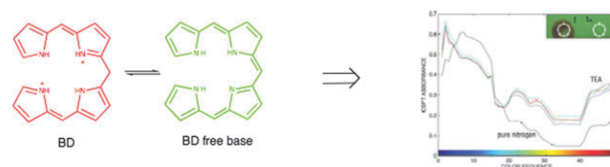
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1162

Insights on the chemistry of *a,c*-biladienes from a CSPT investigation

Roberto Paolesse,* Adriano Alimelli, Arnaldo D'Amico, Mariano Venanzi, Gionata Battistini, Marco Montalti, Daniel Filippini, Ingemar Lundström and Corrado Di Natale

A computer set and a web camera have been exploited as spectroscopic technique to characterize novel features of the *a,c*-biladiene chemistry.

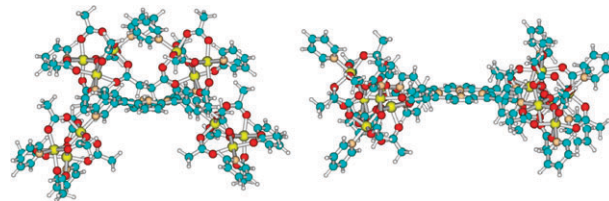


1167

Contrasting photoelectrochemical behaviour of two isomeric supramolecular dyes based on *meso*-tetra(pyridyl)porphyrin incorporating four (μ_3 -oxo)-triruthenium(III) clusters

André Luiz Barboza Formiga, Ana Flavia Nogueira, Koiti Araki and Henrique Eisi Toma*

Two isomeric, saddle shaped and planar supramolecular dyes based on porphyrin–ruthenium clusters have been investigated, exhibiting contrasting photoelectrochemical in dye sensitized solar cells.

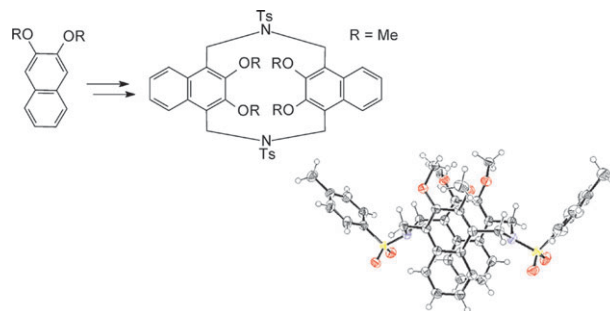


1175

Synthesis of “calixarene-like” *N,N*-ditosyldiaza[3.3](1,4)naphthalenophanes

Huu-Anh Tran, Julie Collins and Paris E. Georghiou*

A series of new tetrahomodiazacalix[2]naphthalenes, containing 2,3-dialkoxy-substituted naphthalene units and showing highly symmetrical and conformationally rigid “calixarene-like” 1,3- alternate type structures, have been synthesized and some of their properties are reported.

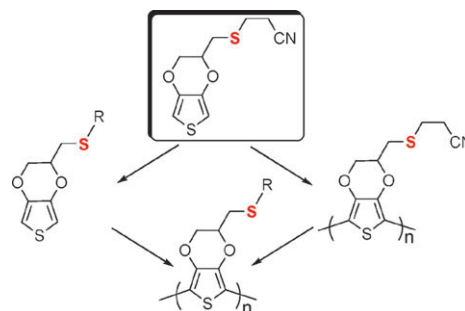


1183

A versatile building block for EDOT or PEDOT functionalization

Mirela Balog, Houari Rayah, Franck Le Derf* and Marc Sallé*

An EDOT-based building block bearing a thiolate function has been synthesized and exploited for a convenient access to various monomers, as well as for the direct functionalization of preformed PEDOT-based films.



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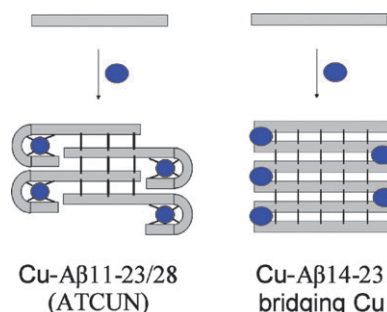
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1189

Amyloid fibrils: modulation of formation and structure by copper(II)

Vincent Pradines, Alina Jurca Stroia and Peter Faller*

The role of Cu^{II} -complexation of amyloidogenic peptides on the formation and structure of aggregates were analyzed. The results mimicked various facets of biological relevant peptides/protein-aggregation. Important mechanistic features are the ability of Cu^{II} to associate the peptides by bridging coordination, the structural changes induced by Cu^{II} binding and their effect on peptide–peptide interactions.

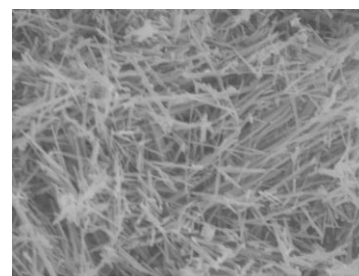


1195

An electrochemical comparison of manganese dioxide microparticles *versus* α and β manganese dioxide nanorods: mechanistic and electrocatalytic behaviour

Christopher Batchelor-McAuley, Lidong Shao, Gregory G. Wildgoose, Malcolm L. H. Green and Richard G. Compton*

The comparative electrochemical behaviour of both α - and β -nanorods of manganese dioxide (MnO_2) and microparticles of predominantly β -phase manganese dioxide is investigated at pHs close to neutral.

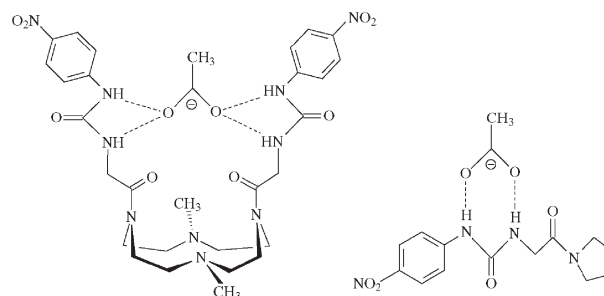


1204

New branched macrocyclic ligand and its side-arm, two urea-based receptors for anions: synthesis, binding studies and crystal structure

Mauro Formica, Vieri Fusi,* Eleonora Macedi, Paola Paoli, Giovanni Piersanti, Patrizia Rossi, Giovanni Zappia and Pierfrancesco Orlando

Synthesis and binding properties of two new urea based receptors in binding anions such as chloride and acetate. The effect of preorganized side-arms in binding acetate.

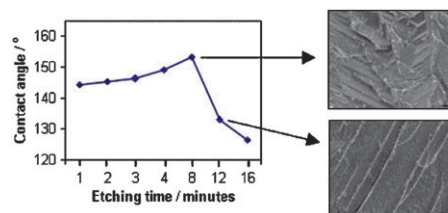


1215

Assessment of roughness and chemical modification in determining the hydrophobic properties of metals

Iain A. Larmour, Graham C. Saunders and Steven E. J. Bell*

An investigation of roughness and surface energy, criteria essential for increasing hydrophobicity of industrially significant metals, allows a reappraisal of the simple 'etch and coat' techniques thereby providing a general design protocol.



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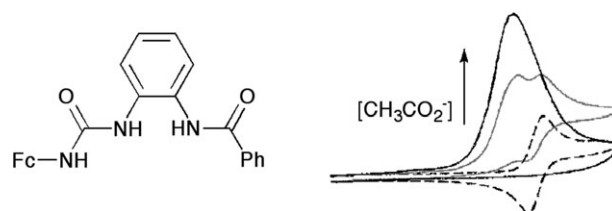
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PAPERS

1221

Anion-triggered electrodeposition in ferrocene-functionalised *ortho*-phenylenediamine-based receptorsMarta Arroyo, Peter R. Birkin, Philip A. Gale,*
Sergio E. García-Garrido and Mark E. Light

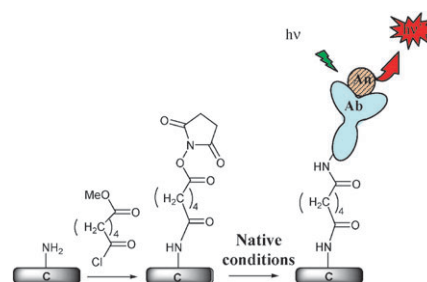
Ferrocene-functionalised anion receptors based on an *ortho*-phenylenediamine scaffold have been shown to undergo anion-triggered electrochemical deposition. This process may offer a new way of detecting anionic species in solution.



1228

Covalent immobilization of antibodies on electrochemically functionalized carbon surfacesStéphanie Dauphas, Anne Corlu,
Christiane Guguen-Guillouzo, Soraya Ababou-Girard,
Olivier Lavastre and Florence Geneste*

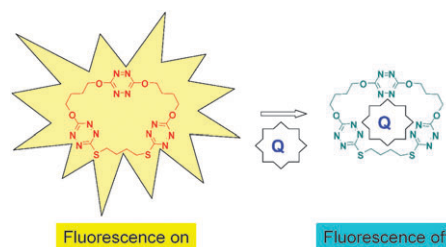
An effective and general protocol of functionalization has been successfully used to covalently anchor sensitive biomolecules such as antibodies to carbon surfaces.



1235

Preparation and physicochemical studies of new multiple rings *s*-tetrazinesYong-Hua Gong, Pierre Audebert,* Gilles Clavier,
Fabien Miomandre, Jie Tang, Sophie Badré,
Rachel Méallet-Renault and Elliot Naidus

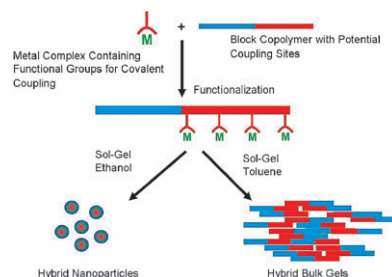
Supramolecular arrangement of tetrazines can enhance fluorescence quenching.



1243

Solvent effects in the formation of hybrid materials based on titanium alkoxide-polysiloxane precursorsSorin Ivanovici, Christoph Rill, Thomas Koch,
Michael Puchberger and Guido Kickelbick*

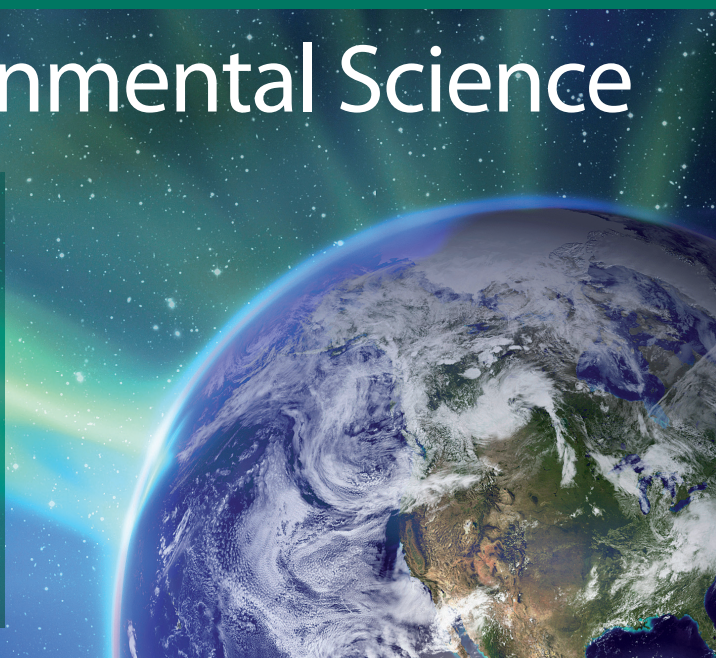
Depending on the solvent, *i.e.* ethanol or toluene, either nanoparticles or gels were obtained using polysiloxane-metal alkoxide precursors in the sol-gel process.



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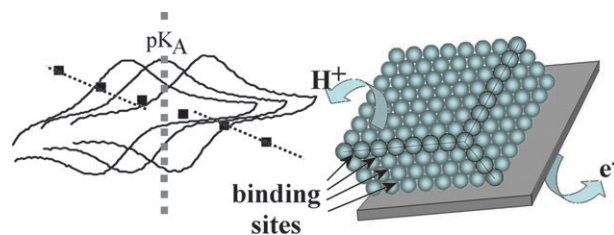
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1253

Binding site control in a layer-by-layer deposited chitosan–carbon nanoparticle film electrode

Liza Rassaei, Michael J. Bonné, Mika Sillanpää and Frank Marken*

pH-dependent chemisorption and physisorption processes are shown to occur with chitosan in a carbon nanoparticle composite film acting as the active binding site.

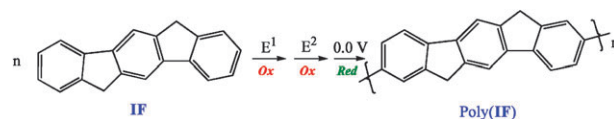


1259

Anodic oxidation of indenofluorene. Electrodeposition of electroactive poly(indenofluorene)

Joëlle Rault-Berthelot,* Cyril Poriol, Frédéric Justaud and Frédéric Barrière

Poly(indenofluorene) films are electrochemically deposited on anode surfaces and compared with polyfluorene films.



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