

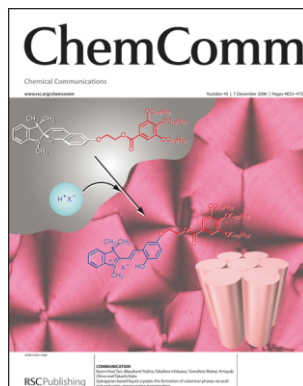
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ISSN 1359-7345 CODEN CHCOFS (45) 4653-4752 (2006)



Cover

See Joost N. H. Reek *et al.*, page 4679. Templated ligands: a novel concept to construct heterobidentate ligands for asymmetric transition metal catalysis. Image reproduced by permission of Mark Kuil, P. Elsbeth Goudriaan, Piet W. N. M. van Leeuwen and Joost N. H. Reek, from *Chem. Commun.*, 2006, 4679.



Inside cover

See Takashi Kato *et al.*, page 4703. A schematic illustration of the transition to a hexagonal columnar liquid-crystalline phase due to acid-induced spiro-merocyanine isomerisation of a spiro-merocyanine derivative that forms isotropic liquid. Image reproduced by permission of Boon-Hooi Tan, Masafumi Yoshio, Takahiro Ichikawa, Tomohiro Mukai, Hiroyuki Ohno and Takashi Kato, from *Chem. Commun.*, 2006, 4703.

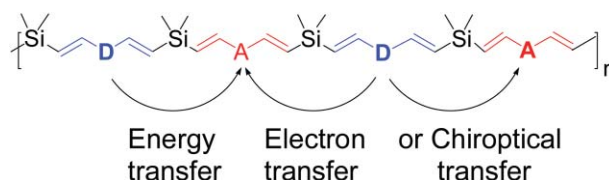
FEATURE ARTICLE

4669

Alternating divinylarene-silylene copolymers

Tien-Yau Luh* and Yen-Ju Cheng

A summary of recent advances on the chemistry and photophysics of silylene-spaced divinylarene copolymers is presented.



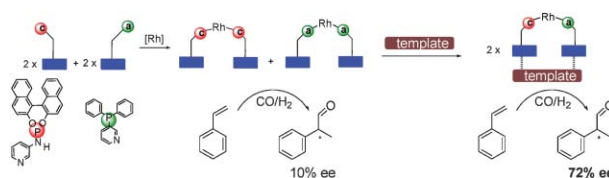
COMMUNICATIONS

4679

Template-induced formation of heterobidentate ligands and their application in the asymmetric hydroformylation of styrene

Mark Kuil, P. Elsbeth Goudriaan, Piet W. N. M. van Leeuwen and Joost N. H. Reek*

The authors report the template-induced formation of chelating heterobidentate ligands by the selective self-assembly of two different monodentate ligands on a rigid bis-zinc(II)-salphen template with two *identical* binding sites.



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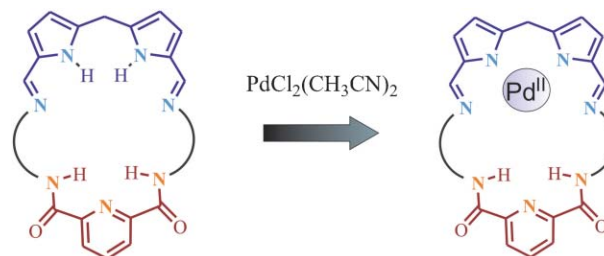
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4682

Mono-palladium(II) complexes of diamidopyridine–dipyrromethane hybrid macrocycles

Evgeny A. Katayev,* Yuriy A. Ustynyuk,
Vincent M. Lynch and Jonathan L. Sessler*

The reaction of diamidopyridine–dipyrromethane or dipyrromethene hybrid macrocycles with palladium(II) affords mono-metallated complexes, wherein the metal centre is coordinated to the macrocycle exclusively through pyrrolic nitrogen donor atoms.

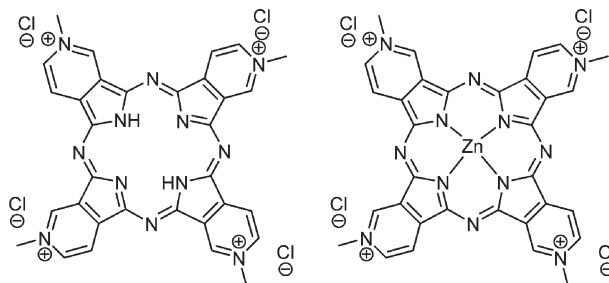


4685

Tetramethylpyridiniumporphyrazines—a new class of G-quadruplex inducing and stabilising ligands

Diana P. N. Gonçalves, Raphaël Rodriguez,
Shankar Balasubramanian and Jeremy K. M. Sanders*

3,4-Tetramethylpyridiniumporphyrazines bind strongly and selectively to human telomeric G-quadruplex DNA, inducing the formation of an antiparallel quadruplex in a process that mimics molecular chaperones.

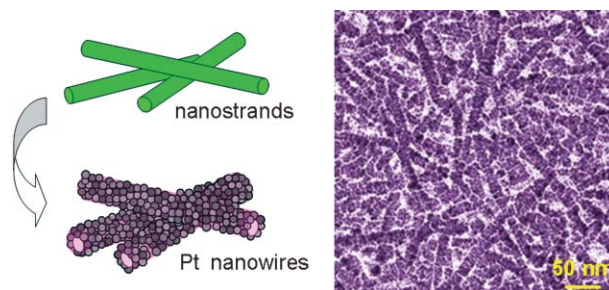


4688

Free-standing nanofibrous platinum sheets and their conductivity

Xinsheng Peng, Yan-Hong Luo, Jian Jin, Jianguo Huang,
Izumi Ichinose,* Keiji Kurashima and
Fotios Papadimitrakopoulos

Nanofibrous platinum sheets with a thickness of one to a few tens of nanometres were prepared over the submicron pores of polymer substrates by using long and rigid cadmium hydroxide nanostrands as templates.

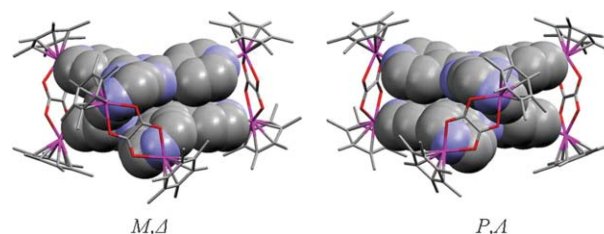


4691

Self-assembled hexanuclear arene ruthenium metallo-prisms with unexpected double helical chirality

Padavattan Govindaswamy, David Linder, Jérôme Lacour,
Georg Süß-Fink and Bruno Therrien*

Self-assembly of 2,4,6-tripyridyl-1,3,5-triazine subunits with arene ruthenium building blocks and oxalato bridges affords metallo-prisms of the type $[\text{Ru}_6(\text{arene})_6(\text{tpt})_2(\text{C}_2\text{O}_4)_3]^{6+}$; the unexpected double helical chirality of the metallo-prisms observed in the solid state persists in solution giving rise to two different stereodynamic processes as demonstrated by NMR enantiodifferentiation experiments.



4694



Signal amplification and transduction by photo-activated catalysis

Stefan C. Ritter and Burkhard König*

Turn on the light to get an active catalyst. A flavin–amine–copper system allows transformation and amplification of a light input into a correlated cycloaddition product as chemical output.

4697

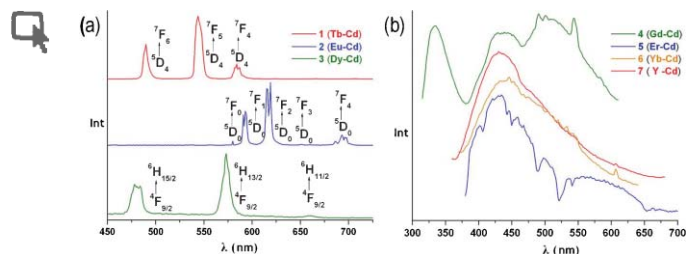


Fluorescently tagged polymer bioconjugates from protein derived macroinitiators

Julien Nicolas, Veronica San Miguel, Giuseppe Mantovani and David M. Haddleton*

Model proteins have been turned into efficient macroinitiators for the synthesis of fluorescent bioconjugates by living radical polymerisation, giving rise to a new strategy for *in situ* observation of delivered compounds.

4700

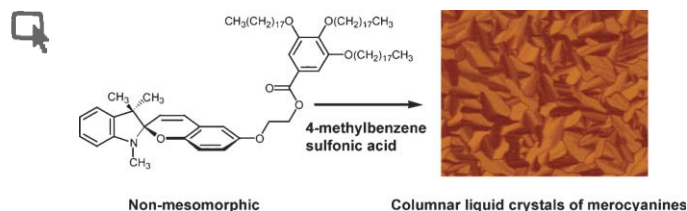


A series of luminescent lanthanide–cadmium–organic frameworks with helical channels and tubes

Yan-Qiong Sun, Jie Zhang and Guo-Yu Yang*

Ln oxides (Ln = Y, Pr, Nd, Eu, Gd, Tb, Dy, Er, Yb), as sources of Ln, and Cd salts provide the first series of Ln–Cd coordination frameworks under hydrothermal conditions in which the Ln atoms are linked by 4,5-imidazolecarboxylic acid ligands with skew coordination orientation, resulting in novel heterometallic frameworks with left- and right-handed helical tubes and channels along the *b* axis. The luminescence data suggest that the ligand fields at these centers are markedly different.

4703



Spiropyran-based liquid crystals: the formation of columnar phases *via* acid-induced spiro–merocyanine isomerisation

Boon-Hooi Tan, Masafumi Yoshio, Takahiro Ichikawa, Tomohiro Mukai, Hiroyuki Ohno and Takashi Kato*

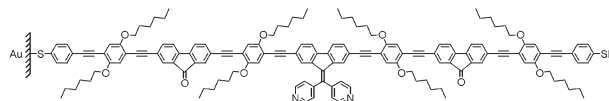
Hexagonal columnar liquid-crystalline phases are induced for a new fan-shaped spiro-merocyanine as the result of an acidichromism effect of spiro–merocyanine isomerisation through protonation upon incorporation of 4-methylbenzenesulfonic acid.

4706

Single-molecule electrical studies on a 7 nm long molecular wire

Geoffrey J. Ashwell,* Barbara Urasinska, Changsheng Wang, Martin R. Bryce, Iain Grace and Colin J. Lambert

Self-assembled monolayers of a 7 nm long molecular wire exhibit a single-molecule current of 0.35 ± 0.05 nA at 0.3 V, which is supported by theoretical calculations.

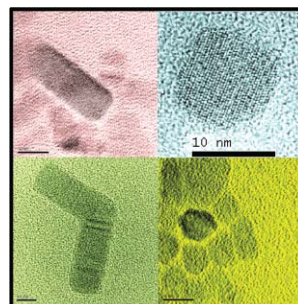


4709

A novel soft hydrothermal (SHY) route to crystalline PbS and CdS nanoparticles exhibiting diverse morphologies

Deborah Berhanu, Kuveshni Govender, David Smyth-Boyle, Martin Archbold, Douglas P. Halliday and Paul O'Brien*

We demonstrate a rapid, simple “soft-hydrothermal” (SHY) route to nanocrystalline PbS and CdS, using air-stable crystalline complexes as single-source (SS) precursors and a simple single-step “one-pot” protocol.

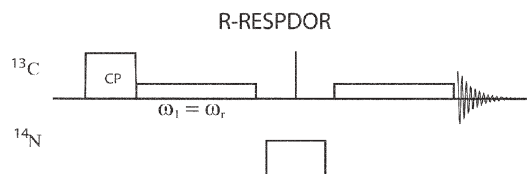


4712

Measuring multiple carbon–nitrogen distances in natural abundant solids using R-RESPDOR NMR

Zhehong Gan

A solid state NMR method named Rotary Resonance Echo Saturation Pulse Double Resonance (R-RESPDOR) is described for measuring multiple carbon–nitrogen ($^{13}\text{C}/^{14}\text{N}$) distances in natural abundant solids.

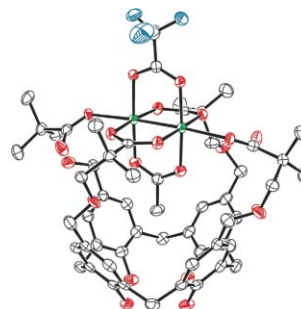


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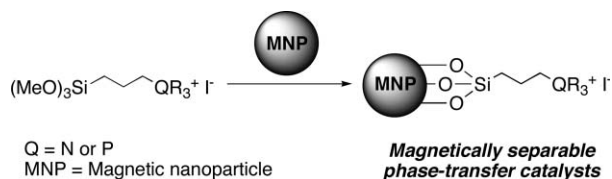
Entrapment of a dirhodium tetracarboxylate unit inside the aromatic bowl of a calix[4]arene: Unique catalysts for C–H amination

Benjamin H. Brodsky and J. Du Bois*

A unique family of calix[4]arene-derived, tetra-carboxylate dirhodium(II) complexes has been prepared as catalysts for C–H amination. Crystallographic analysis confirms the structure of these unusual inclusion adducts, having a single acetate ligand entrapped within the aromatic bowl of the calixarene.



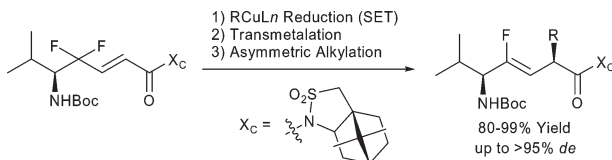
4718

**Magnetically separable phase-transfer catalysts**

Masato Kawamura and Kazuhiko Sato*

Magnetic nanoparticles-supported phase-transfer catalysts were prepared. The catalysts were separated by an external magnet and reusable without significant loss of their catalytic efficiency.

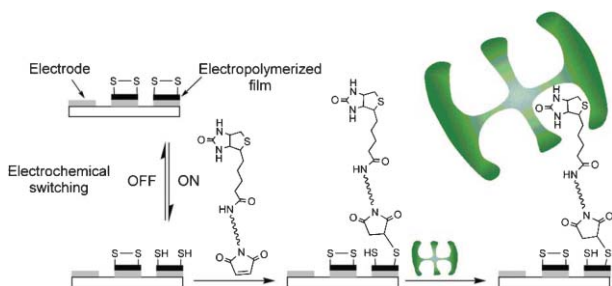
4720

**A novel one-pot reaction involving organocopper-mediated reduction/transmetalation/asymmetric alkylation, leading to the diastereoselective synthesis of functionalized (Z)-fluoroalkene dipeptide isosteres**

Tetsuo Narumi, Ayumu Niida, Kenji Tomita, Shinya Oishi, Akira Otaka, Hiroaki Ohno and Nobutaka Fujii*

A highly diastereoselective synthesis of functionalized (Z)-fluoroalkene-type dipeptide isosteres was achieved in good to excellent yields.

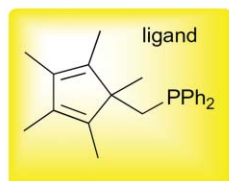
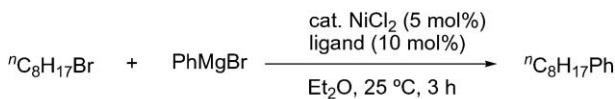
4723

**Protein micropatterning based on electrochemically switched immobilization of bioligand on electropolymerized film of a dually electroactive monomer**

Kyuwon Kim,* Jaeyang Hwang, Inwoong Seo, Tae Hwan Youn and Juhyoun Kwak*

A protein micropatterning method based on electropolymerization is demonstrated using a monomer having two electroactive units, hydroquinone monoester and disulfide, which enables electrochemical ON-OFF switching for immobilization of bioligands on modified electrodes.

4726

**Synthesis of $Cp^*CH_2PPh_2$ and its use as a ligand for the nickel-catalysed cross-coupling reaction of alkyl halides with aryl Grignard reagents**

Minoru Uemura, Hideki Yorimitsu* and Koichiro Oshima*

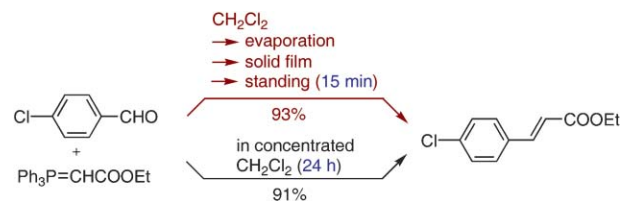
A new ligand, $Cp^*CH_2PPh_2$ (Cp^* = 1,2,3,4,5-pentamethyl-2,4-cyclopentadienyl), was prepared. The ligand is highly efficient for nickel-catalysed cross-coupling reaction of alkyl halides with aryl Grignard reagents, which nickel-phosphine complexes had never made possible.

4729

Rate acceleration of organic reaction by immediate solvent evaporation

Akihiro Orita, Genta Uehara, Kai Miwa and Junzo Otera*

Several types of organic reactions were accelerated by immediate evaporation of solvents because of remarkable enhancement of molecule-to-molecule contacts between reactants.

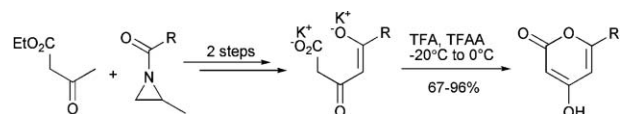


4732

Synthesis of the bis-potassium salts of 5-hydroxy-3-oxopent-4-enoic acids and their use for the efficient preparation of 4-hydroxy-2H-pyran-2-ones and other heterocycles

Dietmar Schmidt, Jürgen Conrad, Iris Klaiber and Uwe Beifuss*

Acetoacetates and *N*-acyl 2-methylaziridines can be transformed into the stable bis-potassium salts of 5-hydroxy-3-oxopent-4-enoic acids which are converted into 4-hydroxy-2H-pyran-2-ones, pyrazoles and isoxazoles.

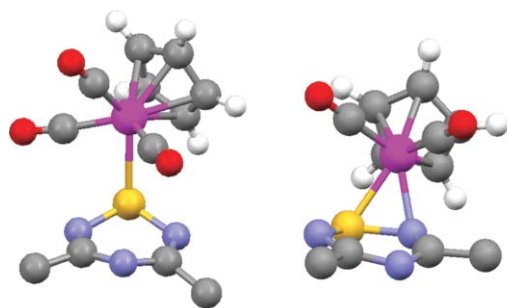


4735

η^1 and η^2 complexes of λ^3 -1,2,4,6-thiatriazinyls with CpCr(CO)_x

Chwee Ying Ang, René T. Boéré,* Lai Yoong Goh,* Lip Lin Koh, Seah Ling Kuan, Geok Kheng Tan and Xin Yu

Mild radical-coupling reactions can trap the π complexes that have been assumed—but rarely observed—as intermediates in oxidative addition reactions. Here we report on related complexes in which the heterocyclic ligands variously act as 1e (left) or 3e donors (right).

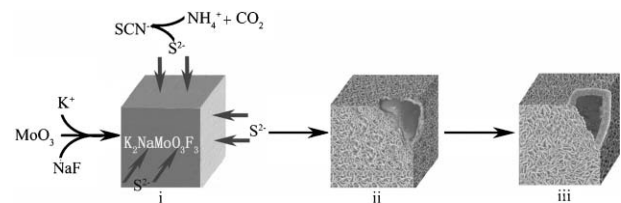


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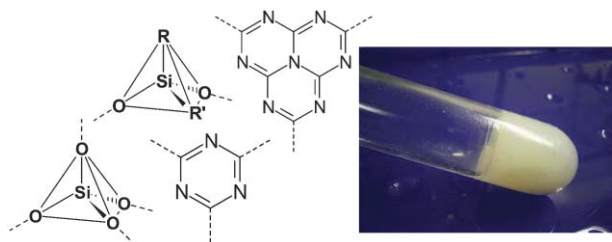
MoS_2 hierarchical hollow cubic cages assembled by bilayers: one-step synthesis and their electrochemical hydrogen storage properties

Lina Ye, Changzheng Wu, Wen Guo and Yi Xie*

MoS_2 hierarchical hollow cubic cages, assembled by bilayers synthesized *via* a one-step self-assembly coupled with intermediate crystal templating process without any surfactant, were employed for electrochemical hydrogen storage.



4741

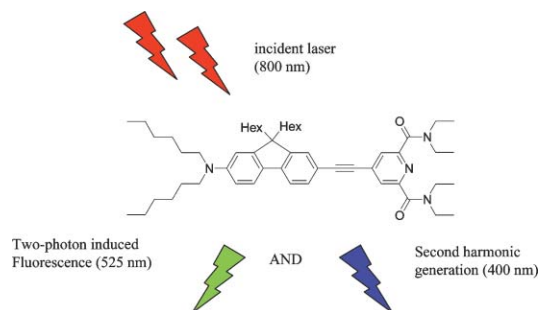


s-Triazine and tri-*s*-triazine based organic–inorganic hybrid gels prepared from chlorosilanes by exchange reactions

Nadia E. A. El-Gamel, Marcus Schwarz, Erica Brendler and Edwin Kroke*

A novel type of hybrid polymers $[(\Delta\text{O}_3)_4\text{Si}_3]_n$ and $[(\Delta\text{O}_3)\text{SiMe}]_n$ (where $\Delta = \text{C}_6\text{N}_7$ or C_3N_3) has been prepared by a new sol–gel process based on exchange reactions using MeSiCl_3 or SiCl_4 .

4744

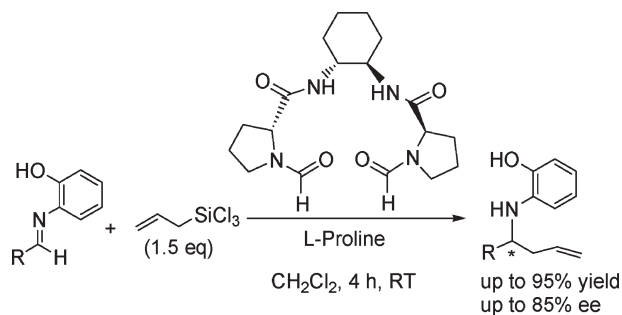


Synthesis of chromophores combining second harmonic generation and two photon induced fluorescence properties

Cyril Barsu, Rémy Fortrie, Kamilla Nowika, Patrice L. Baldeck, Jean-Claude Vial, Alberto Barsella, Alain Fort, Muriel Hissler, Yann Bretonnière, Olivier Maury* and Chantal Andraud*

The design of new chromophores presenting simultaneous SHG and TPEF properties is reported.

4747



First enantioselective organocatalytic allylation of simple aldimines with allyltrichlorosilane

Sunil B. Jagtap and Svetlana B. Tsogoeva*

A new organocatalytic system, chiral bisformamide and *in situ* generated L-proline-derived allylsilane reagent, which converts different aldimines to homoallylic amines in good to high yields and good enantioselectivities has been described.

ADDITION AND CORRECTION

4750

H. Maheswaran, K. Leon Prasanth, G. Gopi Krishna, K. Ravikumar, B. Sridhar and M. Lakshmi Kantam

Enantioselective nitroaldol (Henry) reaction using copper(II) complexes of (–)-sparteine

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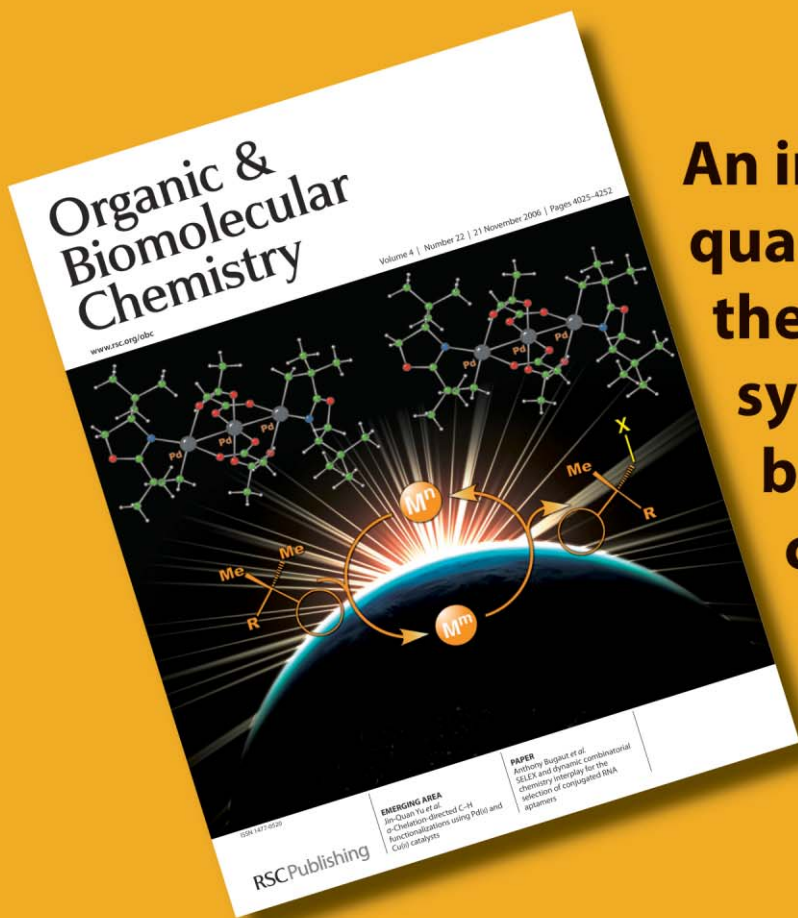
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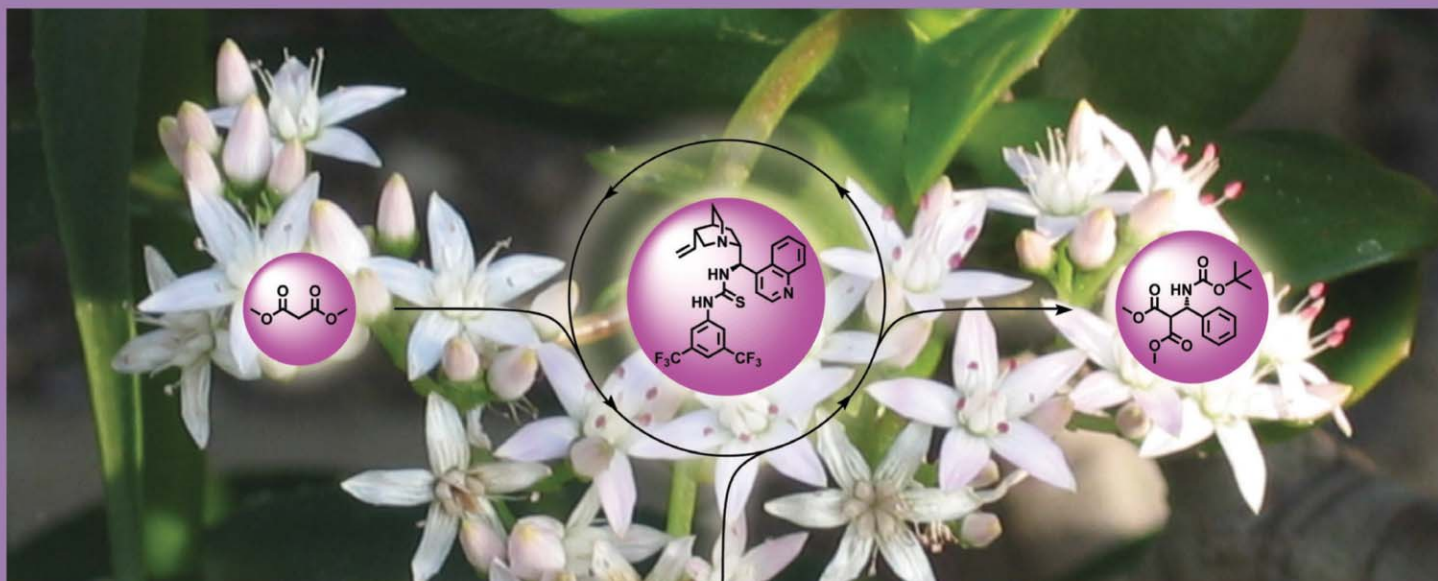
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