



# The following Communications have been judged by at least two referees to be "very important papers" and will be published online at www.angewandte.org soon:

H. Ueda, H. Satoh, K. Matsumoto, K. Sugimoto, T. Fukuyama,\* H. Tokuyama\*

Total Synthesis of (+)-Haplophytine

K. Fuchibe, T. Kaneko, K. Mori, T. Akiyama\*

Expedient Synthesis of N-Fused Indoles: A C-F Activation and C-H Insertion Approach

A. Giannis,\* P. Heretsch, V. Sarli, A. Stößel Synthesis of Cyclopamine Using a Biomimetic and Diastereoselective Approach

W. A. Chalifoux, R. McDonald, M. J. Ferguson, R. R. Tykwinski tert-Butyl Endcapped Polyynes: Crystallographic Evidence of Reduced Bond-Length Alternation

S. T. Scroggins, Y. Chi, J. M. J. Fréchet\*

Polarity-Directed One-Pot Asymmetric Cascade Reactions Mediated by Two Catalysts in an Aqueous Buffer D. C. K. Rathwell, S.-H. Yang, K. Y. Tsang, M. A. Brimble\*

An Efficient Formal Synthesis of the Human Telomerase Inhibitor (±)-γ-Rubromycin

C. A. Strassert,\* M. Otter, R. Q. Albuquerque, A. Höne, Y. Vida, B. Maier. L. De Cola\*

Photoactive Hybrid Nanomaterial for Targeting, Labeling, and Killing Antibiotic-Resistant Bacteria

Y. Tanaka, Y. Hirana, Y. Niidome, K. Kato, S. Saito, N. Nakashima\* Experimentally Determined Redox Potentials of Individual (n,m)-Single-Walled Carbon Nanotubes

D. Loffreda,\* F. Delbecq, F. Vigné, P. Sautet

Fast Prediction of Selectivity in Heterogeneous Catalysis from Extended Brønsted-Evans-Polanyi Relations: A Theoretical Insight

### **Author Profile**

Hans-Jörg Himmel \_\_\_\_\_\_ 7288



"The biggest challenge facing scientists is that every answer creates at least two new questions.

My favorite subject at school was history..."

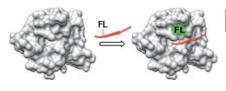
This and more about Hans-Jörg Himmel can be found on page 7288.

Books

Metallic Nanomaterials Challa S. S. R. Kumar

reviewed by R. A. Sperling \_\_\_\_\_ 7289

To GFP and beyond: Green fluorescent protein and its array of wavelength variants have transformed cell biology. However, the next generation of fluorescent probes (FL) may emerge from the chemistry laboratory. Sensors have been described that display huge fluorescent changes upon binding to their protein targets (see picture). Nevertheless, a number of challenges must be overcome before these species find universal application in cells and beyond.



# Highlights

Fluorescent Probes

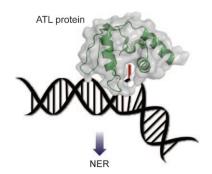
V. Sharma, D. S. Lawrence\* **7290 – 7292** 

Über-Responsive Peptide-Based Sensors of Signaling Proteins

### **DNA Repair**

T. Reißner, S. Schorr,
T. Carell\* \_\_\_\_\_\_\_ **7293 – 7295** 

Once Overlooked, Now Made Visible: ATL Proteins and DNA Repair



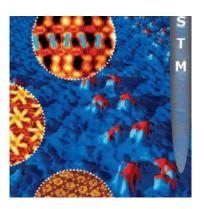
Damage report: Alkyltransferase-like proteins (ATLs) flip DNA lesions out of the DNA duplex but have no catalytic function. They act as recognition proteins that mark DNA lesions and allow repair (see picture; NER = nucleotide excision repair).

### Reviews

### Supramolecular Surface Chemistry

J. A. A. W. Elemans, S. Lei, S. De Feyter\* \_\_\_\_\_\_\_ **7298 – 7332** 

Molecular and Supramolecular Networks on Surfaces: From Two-Dimensional Crystal Engineering to Reactivity Seeing is believing: Scanning tunneling microscopy (STM) allows the visualization of molecules in real space on atomically flat conductive substrates (see picture), and has formed the basis for the rapid development of supramolecular chemistry at surfaces. This Review highlights recent developments in the design and functionality of supramolecular surface patterns, with a focus on chirality, porosity, and reactivity.



### **Communications**



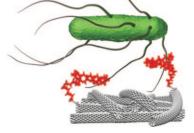
### Biosensors

G. A. Zelada-Guillén, J. Riu,\* A. Düzgün, F. X. Rius\* \_\_\_\_\_\_ 7334 – 7337



Immediate Detection of Living Bacteria at Ultralow Concentrations Using a Carbon Nanotube Based Potentiometric Aptasensor





**Keeping the doctor away**: An aptamer attached to an electrode coated with single-walled carbon nanotubes interacts selectively with bacteria (see picture). The resulting electrochemical response is

highly accurate and reproducible and starts at ultralow bacteria concentrations, thus providing a simple, selective method for pathogen detection.

### For the USA and Canada:

ANGEWANDTE CHEMIE International Edition (ISSN 1433-7851) is published weekly by Wiley-VCH, PO Box 191161, 69451 Weinheim, Germany. Air freight and mailing in the USA by Publications Expediting Inc., 200 Meacham Ave., Elmont, NY 11003. Periodicals postage paid at Jamaica, NY 11431. US POST-MASTER: send address changes to *Angewandte Chemie*, Wiley-VCH, 111 River Street, Hoboken, NJ 07030. Annual subscription price for institutions: US\$ 7225/6568 (valid for print and

electronic / print or electronic delivery); for individuals who are personal members of a national chemical society prices are available on request. Postage and handling charges included. All prices are subject to local VAT/sales tax.





Organocatalysis

M. W. Paixão, N. Holub, C. Vila, M. Nielsen,

K. A. Jørgensen\* \_\_\_\_\_\_ 7338 – 7342

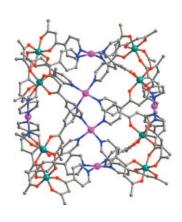
Trends in Organocatalytic Conjugate Addition to Enones: An Efficient Approach to Optically Active Alkynyl, Alkenyl, and Ketone Products



Three in one: Applying an organocatalytic tandem strategy to build a library of optically active alkynyl, alkenyl, and ketone products, starting from cyclic enones and

 $\beta$ -keto sulfones, is shown to be rapid and efficient (see scheme; R = aryl, R' = H or alkyl).

Changing cages: The coordination preferences of the incorporated metals dictates the geometry of the heterometallic cages that are assembled by using AlL<sub>3</sub> (HL = 1-(4-pyridyl)butane-1,3-dione) as a metalloligand. A trigonal bipyramid and a giant capped octahedron (see picture; green Al, red O, blue N, purple Pd) were isolated. The unprecedented spontaneous resolution of the chiral trigonal bipyramidal complex  $M_2M'_3L_6$  with  $D_3$  symmetry was observed.

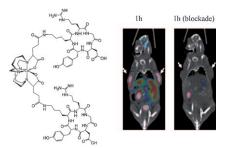


### Cage Compounds

H.-B. Wu, Q.-M. Wang\* \_\_\_\_ 7343 - 7345

Construction of Heterometallic Cages with Tripodal Metalloligands





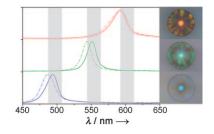
Two are better than one: Multivalent scaffolds for targeted PET imaging probes not only feature chelators that form stable and neutral complexes with a radiometal but also contain functional groups for presentation of multiple targeting molecules. A bivalent scaffold was synthesized and coupled with a targeting ligand to afford the probe, which was used to efficiently image tumors in vivo (see picture).

### **Imaging Probes**

W. Liu, G. Hao, M. A. Long, T. Anthony, J.-T. Hsieh, X. Sun\* \_\_\_\_\_\_ **7346 – 7349** 

Imparting Multivalency to a Bifunctional Chelator: A Scaffold Design for Targeted PET Imaging Probes





Appearing in print: Polymer beads with a photonic crystal structure can be prepared that display the molecular imprint of a label-free biomolecule to be analyzed. A series of beads corresponding to a series of analytes could be used for multiplex detection of biomolecules with remarkable sensitivity and specificity (see picture).

### Biomolecule Detection

Y.-J. Zhao, X.-W. Zhao,\* J. Hu, J. Li, W.-Y. Xu, Z.-Z. Gu\* \_\_\_\_\_\_ **7350 – 7352** 

Multiplex Label-Free Detection of Biomolecules with an Imprinted Suspension Array



# Incredibly Selective



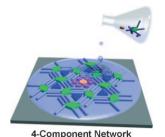
Angewandte Chemie chooses its articles carefully. Most of its Reviews, Highlights, and Essays are written upon invitation, from authors who are among the very best in their fields. Just 27 % of all submitted Communications in 2007 were accepted after peer review - only about 1500 from nearly 5500. Communications that are judged to be exceptionally important within a particular field are featured as Very Important Papers (VIPs).



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Get it together: A four-component 2D crystal has been formed at a liquid–solid interface and successfully visualized by scanning tunneling microscopy. Simply premixing the four components and applying the solution onto the graphite surface leads to the spontaneous self-assembly of the 2D crystal. Selected guest molecules induce a structural transformation of the host network from nonporous to porous by coadsorption inside the formed pores.

### Supramolecular Chemistry

J. Adisoejoso, K. Tahara,\* S. Okuhata,

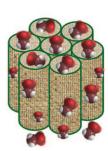
S. Lei,\* Y. Tobe,\*

S. De Feyter\* \_\_\_\_\_\_ 7353 – 7357

Two-Dimensional Crystal Engineering: A Four-Component Architecture at a Liquid–Solid Interface







**Fully loaded**: A facile nanosieve approach for the preparation of  $Fe_2O_3$  nanoparticles that have uniform and tunable sizes and are highly dispersed over a mesoporous support is achieved by the simple adjustment of the pore diameter of the template matrix (see picture). The nanoparticles are very small (6.5–9.0 nm) and show superior magnetic properties compared to pure  $Fe_2O_3$  nanoparticles prepared without using a support.

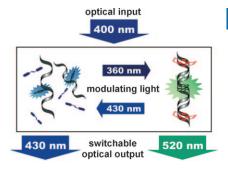
### Magnetic Nanoparticles

S. Alam, C. Anand, K. Ariga, T. Mori, A. Vinu\* \_\_\_\_\_\_ 7358 – 7361

Unusual Magnetic Properties of Size-Controlled Iron Oxide Nanoparticles Grown in a Nanoporous Matrix with Tunable Pores



**Switched on:** The fluorescence emission of a DNA-based optical switch can be reversibly switched from blue to green using modulating light of different wavelengths (see picture). The device is based on the hybridization of two pyrene-functionalized DNA strands in the presence of a photochromic azobenzene-containing effector ligand. Hybridization occurs only with the *cis*-configured ligand, and results in pyrene excimer fluorescence.



### **DNA** Hybridization

S.-n. Uno, C. Dohno, H. Bittermann, V. L. Malinovskii, R. Häner,\*

K. Nakatani\* \_\_\_\_\_ 7362 - 7365

A Light-Driven Supramolecular Optical Switch





Going straight: A simple and robust mechanism coherently directs nanowire growth directions by introducing a local temperature gradient as the local kinetic variable during the conventional vapor—

liquid–solid (VLS) growth (see picture, scale bar = 200  $\mu$ m). The nanowires grow straight in the vertical direction, but possess kinks near the catalytic tips.

### Silicon Nanowires

G. Lee, Y. S. Woo, J.-E. Yang, D. Lee, C.-J. Kim, M.-H. Jo\* \_\_\_\_\_\_ **7366 – 7370** 

Directionally Integrated VLS Nanowire Growth in a Local Temperature Gradient

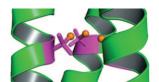


### Protein Design

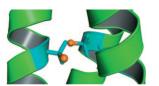
A. F. A. Peacock, J. A. Stuckey, V. L. Pecoraro\* \_\_\_\_\_\_\_ **7371 – 7374** 



Switching the Chirality of the Metal Environment Alters the Coordination Mode in Designed Peptides



Outsiders make their presence felt: When the chirality of a single layer of amino acids was switched in a three-stranded coiled coil (see picture), X-ray crystallography revealed minimal perturbation of the  $\alpha$ -helical backbone of the designed



structure. In contrast, spectroscopic studies of cadmium binding showed that this switch in chirality dramatically altered the coordination environment and the position of binding.

### Amine Exchange



Selective Amine Cross-Coupling Using Iridium-Catalyzed "Borrowing Hydrogen" Methodology



1 mol% [{Cp\*Irl<sub>2</sub>}<sub>2</sub>]

3 equiv *i*Pr<sub>2</sub>NH

xylene, 155 °C, 10 h



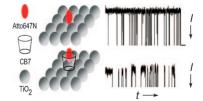
Something borrowed: Amine cross-coupling reactions are catalyzed using  $[\{Cp^*|rl_2\}_2]$   $(Cp^*=C_5Me_5)$  in the absence of a base. A range of anilines were converted into their N-isopropyl derivatives, and the same process was also effective for alkylation of benzylamines and other aliphatic primary amines.

### **Surface Processes**

X. Wu, T. D. M. Bell, E. K. L. Yeow\* \_\_\_\_\_\_ **7379 – 7382** 



Electron Transport in the Long-Range Charge-Recombination Dynamics of Single Encapsulated Dye Molecules on  ${\rm TiO_2}$  Nanoparticle Films



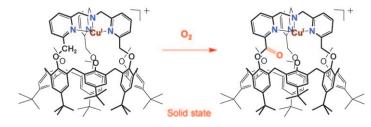
Hitching a slow ride: Long-lived dark charge-separated states arise from the transport of the injected electron on TiO<sub>2</sub> nanoparticles after it is transferred from single Atto647N dye molecules encapsulated in cucurbit[7]uril (CB7). These states are directly probed using the intermittency of the emission intensity trajectories (see spectra).

### Dioxygen Activation

- G. Thiabaud, G. Guillemot,
- I. Schmitz-Afonso, B. Colasson,
- O. Reinaud\* \_\_\_\_\_\_ 7383 7386



Solid-State Chemistry at an Isolated Copper(I) Center with  $O_2$ 



A solid performer: Chemo- and regioselective oxygenation of an organic moiety with O<sub>2</sub> in the solid state gives a Cu<sup>1</sup> complex and a four-electron oxidized compound as final products (see scheme). A single Cu<sup>1</sup> center in interaction with  $O_2$  mediates an even-electron transfer process without the assistance of a redox cofactor and provides further support for a  $[CuO_2]^+$  core as a reactive species allowing C-H bond cleavage.

**Zero, one, or two?** Guanidinium catalyst  $1 \cdot HBAr^F_4$  ( $Ar^F = 3,5 \cdot (CF_3)_2C_6H_3$ , Bn = benzyl,  $Ts = 4 \cdot toluenesulfonyl$ ) was obtained in a single step from a commercially available diamine. By using this catalyst an asymmetric phospha-Mannich reaction has been developed, involving sec-

ondary phosphine oxides and H-phosphinates as the P nucleophile. A series of enantiomerically enriched  $\alpha$ -amino phosphine oxides (2),  $\alpha$ -amino phosphinate, and H-phosphinates containing a P-chiral center were prepared.

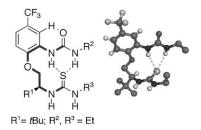
### Asymmetric Catalysis

X. Fu, W.-T. Loh, Y. Zhang, T. Chen, T. Ma, H. Liu, J. Wang, C.-H. Tan\* **7387 – 7390** 

Chiral Guanidinium Salt Catalyzed Enantioselective Phospha-Mannich Reactions



A new twist for a fold: Conformationally well-defined thiourea catalysts, like that shown, stabilized by intramolecular hydrogen bonds demonstrate cooperative ligand—receptor binding. This conformation leads to significantly enhanced catalytic efficiency, resulting in higher turnover rates and lower catalyst loading whilst maintaining high enantioselectivity in a model reaction.

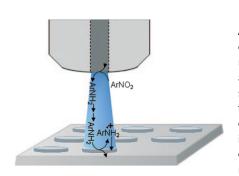


### Cooperative Catalysis

C. R. Jones, G. Dan Pantoş, A. J. Morrison, M. D. Smith\* \_\_\_\_\_\_ 7391 – 7394

Plagiarizing Proteins: Enhancing Efficiency in Asymmetric Hydrogen-Bonding Catalysis through Positive Cooperativity





A micropatterning procedure based on the oxidation of an amine starts with the reduction of a nitro-containing compound at the scanning electrochemical microscope tip (see picture). After diffusion in the interelectrode gap, the amine is oxidized on a gold sample, thus resulting in a local derivatization. This procedure is expected to be suitable for extended microstructuring of surfaces.

### Surface Derivatization

C. Cougnon,\* J. Mauzeroll,\*
D. Bélanger\* \_\_\_\_\_\_ 7395 – 7397

Patterning of Surfaces by Oxidation of Amine-Containing Compounds Using Scanning Electrochemical Microscopy



Organic ionic base = 
$$R^{1} \begin{array}{c} R^{1} & R^{1} \\ R^{1} & R^{1} \\ R^{2} & R^{4} - P - R^{2} \end{array}$$
 
$$R^{2} - P - R^{2} = R^{2} - R^{2} - R^{2} - R^{2} = R^{2} - R^{2} = R^{2} - R^{2} = R^{2} - R^{2} = R^{2} =$$

Good solubility alone does not explain the performance of organic ionic bases in the room-temperature coupling of aryl iodides and even bromides with aliphatic and aromatic amines and N-heterocycles (NuH; see scheme). Conductivity measurements show that these organic ionic bases, which contain tetraalkylammonium or -phosphonium cations, are readily ionized in organic solvents.

### Homogeneous Catalysis

C. Yang, Y. Fu,\* Y. Huang, J. Yi, Q. Guo, L. Liu\* \_\_\_\_\_\_ **7398 – 7401** 

Room-Temperature Copper-Catalyzed Carbon-Nitrogen Coupling of Aryl Iodides and Bromides Promoted by Organic Ionic Bases

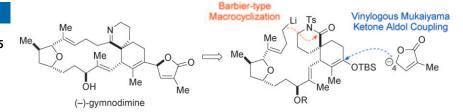


### Natural Product Synthesis

K. Kong, D. Romo,\* C. Lee \_ 7402-7405



Enantioselective Total Synthesis of the Marine Toxin (—)-Gymnodimine Employing a Barbier-Type Macrocyclization



**Sea the synthesis**: At ambient temperature, *tert*-butyllithium promotes a Barbier-type macrocyclization in the first total synthesis of (–)-gymnodimine (Ts: toluene-4-sulfonyl; TBS: *tert*-butyldimethylsilyl), a member of the spirocyclic-imine

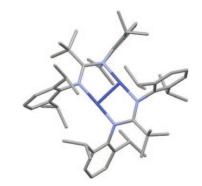
family of marine toxins. The synthesis also features a vinylogous Mukaiyama aldol process to couple the labile butenolide moiety onto a macrocyclic ketone intermediate.

### Metal-Metal Interactions

C. Jones,\* C. Schulten, R. P. Rose, A. Stasch, S. Aldridge, W. D. Woodul, K. S. Murray, B. Moubaraki, M. Brynda, G. La Macchia, L. Gagliardi **7406–7410** 



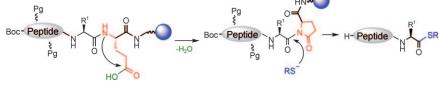
Amidinato— and Guanidinato—Cobalt(I) Complexes: Characterization of Exceptionally Short Co—Co Interactions



**CoCo loco!** Ligand-bridged dimers (see picture) with the shortest known Co–Co interactions are the first amidinato and guanidinato cobalt(I) complexes. The nature of the interactions has been probed by magnetic and theoretical investigations, and has been shown to be multiconfigurational. Preliminary reactivity studies of the complexes have also been carried out.

### Amide Activation

A. P. Tofteng, K. K. Sørensen,
K. W. Conde-Frieboes, T. Hoeg-Jensen,\*
K. J. Jensen\* \_\_\_\_\_\_\_ 7411 – 7414





Fmoc Solid-Phase Synthesis of C-Terminal Peptide Thioesters by Formation of a Backbone Pyroglutamyl Imide Moiety Activating an inactive bond: A new concept in synthetic peptide chemistry, backbone amide activation, proceeds through the selective conversion of a backbone amide into an imide, followed by nucleophilic acyl displacement (see scheme;

Boc=*tert*-butoxycarbonyl, Pg = protecting group). This methodology represents a new approach to solid-phase synthesis of C-terminal peptide thioesters, and may become a general tool for the synthesis of peptide thioesters.

### Dinitrogen Cleavage

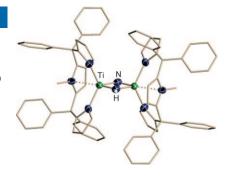
G. B. Nikiforov, I. Vidyaratne,

S. Gambarotta,\*

I. Korobkov \_\_\_\_\_\_ 7415 – 7419



Titanium-Promoted Dinitrogen Cleavage, Partial Hydrogenation, and Silylation



**Breaking up**: Reduction of a trivalent titanium complex afforded N-N cleavage with formation of Ti<sup>IV</sup> nitride complexes (see structure), which can be converted into silylated derivatives.

The old switcheroo: The switch in the enantioselectivity of a reaction by using a single chiral source has been achieved using different metal binding modes of the chiral amino alcohol 1 in the presence of Cu<sup>1</sup> and Ag<sup>1</sup> sources. Azomethine ylides

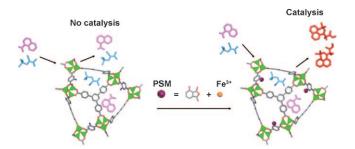
were shown to undergo highly enantioand diastereoselective 1,3-dipolar cycloadditions with substituted *tert*-butyl acrylates to provide both of the enantiomerically enriched pyrrolidines (see scheme).

### Enantioselectivity

H. Y. Kim, H.-J. Shih, W. E. Knabe, K. Oh\* \_\_\_\_\_\_ **7420 – 7423** 

Reversal of Enantioselectivity between the Copper(I)- and Silver(I)-Catalyzed 1,3-Dipolar Cycloaddition Reactions Using a Brucine-Derived Amino Alcohol Ligand





MOF + PSM = Cat: A highly porous metal-organic framework (MOF) is metalated and transformed into an active,

robust, reusable catalyst (Cat.) using postsynthetic modification (PSM).

### MOF-Based Catalysts

K. K. Tanabe, S. M. Cohen\* 7424-7427

Engineering a Metal-Organic Framework Catalyst by Using Postsynthetic Modification



(X = O, NBoc) + R<sup>2</sup>

A synthetic shortcut: A highly efficient cascade reaction (see scheme) led to polycyclic indoles with excellent enantioselectivity. The combination of the two

steps through sequential catalysis enables the use of more readily available starting materials and makes the synthesis more practical. Boc = tert-butoxycarbonyl.

### Asymmetric Catalysis

Q. Cai, Z.-A. Zhao, S.-L. You\* \_\_\_\_\_\_ **7428 – 7431** 

Asymmetric Construction of Polycyclic Indoles through Olefin Cross-Metathesis/ Intramolecular Friedel–Crafts Alkylation under Sequential Catalysis



Ti(O/Pr)<sub>4</sub> ligand 30% H<sub>2</sub>O<sub>2</sub> ROO OO HOO

96-98% ee

**Titanium tough!** Novel proline-derived  $C_1$ -symmetric titanium(salan) complexes have been used to catalyze the epoxidation of styrene derivatives with aqueous

hydrogen peroxide as the oxidant (see scheme). High enantiomeric excesses ranging from 96 to 98% were obtained.

ligand

### Asymmetric Catalysis

K. Matsumoto, T. Oguma,
T. Katsuki\* \_\_\_\_\_\_ 7432 - 7435

Highly Enantioselective Epoxidation of Styrenes Catalyzed by Proline-Derived  $C_1$ -Symmetric Titanium(Salan) Complexes



### **Cross-Coupling**

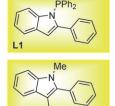
H. W. Lee, F. L. Lam, C. M. So, C. P. Lau, A. S. C. Chan, F. Y. Kwong\* **7436–7439** 



Palladium-Catalyzed Cross-Coupling of Aryl Halides Using Organotitanium Nucleophiles



up to 99% yield (26 examples)



They make a good couple: Catalysts generated from Pd(OAc)<sub>2</sub> and indolylphosphine ligands are highly effective in the titanium-mediated coupling of aryl halides. Catalyst loadings as low as

0.05 mol% Pd can be used. The mild reaction conditions also allow the coupling of aryl sulfonyl chlorides with aryl titanium reagents to generate diaryl sulfones.

### Molecular Recognition

I. Bolz, D. Schaarschmidt, T. Rüffer, H. Lang, S. Spange\* \_\_\_\_\_ 7440 – 7443



A Pyridinium-Barbiturate-Betaine Dye with Pronounced Negative Solvatochromism: A New Approach for Molecular Recognition





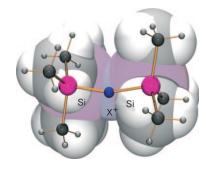
World record: The betaine dye 1 exhibits the highest negative solvatochromic range yet seen. Because of its pronounced push-pull system, 1 is suitable for the detection of polarity changes, acid-base reactions, and the formation of complexes with complementary hydrogen-bond sequences, which can even be followed by the naked eye.

### Halonium Ions

M. Lehmann, A. Schulz,\*
A. Villinger\* \_\_\_\_\_\_ 7444 - 7447



Bissilylated Halonium Ions: [Me<sub>3</sub>Si–X–SiMe<sub>3</sub>][B(C<sub>6</sub>F<sub>5</sub>)<sub>4</sub>] (X = F, Cl, Br, I)



**Double duty**: The series of salts containing the bissilylated halonium cation  $[Me_3Si-X-SiMe_3]^+$  (X = F, Cl, Br, and I; see picture) has been generated and fully characterized in the super Lewis acidic silylating medium  $Me_3Si-X$  (as solvent and reactant) and  $[Me_3Si][B(C_6F_5)_4]$  (as silylating reagent).



Supporting information is available on www.angewandte.org (see article for access details).



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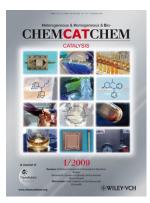
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