

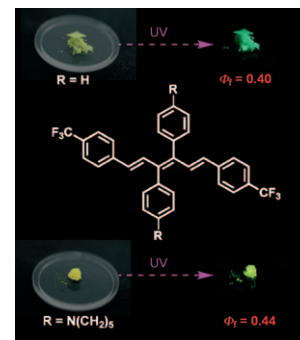


## Fluorescent Compounds

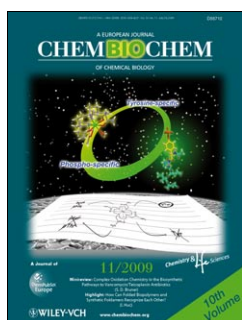
M. Shimizu,\* H. Tatsumi, K. Mochida, K. Shimono, T. Hiyama

Synthesis, Crystal Structure, and Photophysical Properties of (1*E*,3*E*,5*E*)-1,3,4,6-Tetraarylhexa-1,3,5-trienes: A New Class of Fluorophores Exhibiting Aggregation-Induced Emission

**Emissive in powder:** (1*E*,3*E*,5*E*)-1,3,4,6-Tetraarylhexa-1,3,5-trienes that are nonemissive in CHCl<sub>3</sub>, are demonstrated to exhibit fluorescence in powder form with good quantum yields of up to 0.44. The emission color ranges from blue to green depending on the substituents at the *para* position of the phenyl groups.



Chem. Asian J.  
DOI: 10.1002/asia.200900110

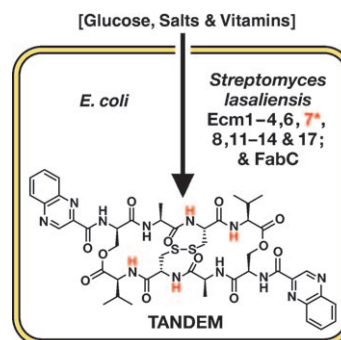


## Natural Products

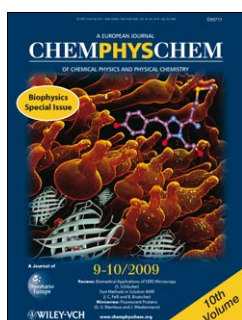
K. Watanabe,\* K. Hotta, A. P. Praseuth, M. Searcey, C. C. C. Wang, H. Oguri, H. Oikawa

Rationally Engineered Total Biosynthesis of a Synthetic Analogue of a Natural Quinomycin Depsipeptide in *Escherichia coli*

**Drugs from bugs.** We have successfully expanded the scope of our *E. coli*-based total biosynthesis of natural products and their analogues by rationally engineering the echinomycin biosynthesis pathway for the production of a synthetic analogue of triostin A, TANDEM; this demonstrates the amenability of the biosynthesis enzymes and *E. coli* towards further engineering.



ChemBioChem  
DOI: 10.1002/cbic.200900260

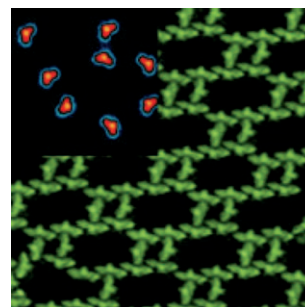


## Molecular Networks

S. Kuck,\* S.-H. Chang, J.-P. Klöckner, M. H. Prosenc, G. Hoffmann, R. Wiesendanger

Steering Two-Dimensional Molecular Growth via Dipolar Interaction

**Molecular networks:** Chiral and metallized Salen molecules on a Cu(111) are investigated using local probe techniques (see figure). Whereas for the parent Co-Salen molecule no self-assembly is observed, in the metal-organic complexes the growth of large and regular molecular networks is achieved through a target-oriented synthetic design of the local electrostatic dipolar molecular fields.



ChemPhysChem  
DOI: 10.1002/cphc.200900281

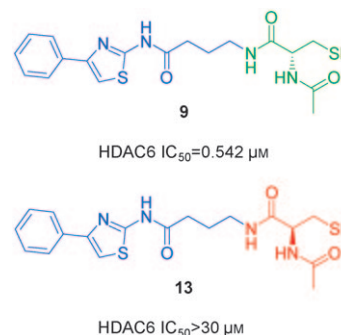


## Drug Design

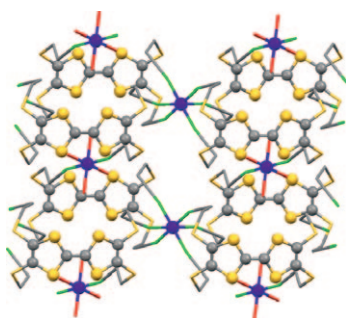
K. V. Butler, R. He, K. McLaughlin, G. Vistoli, B. Langley, A. P. Kozikowski\*

Stereoselective HDAC Inhibition from Cysteine-Derived Zinc-Binding Groups

**Neuroprotective** histone deacetylase (HDAC) inhibitors, featuring zinc chelating groups derived from cysteine, were synthesized. Modifying the chirality of the cysteine residue revealed a strong stereochemical preference for the L-cysteine isomer.



ChemMedChem  
DOI: 10.1002/cmdc.200900088



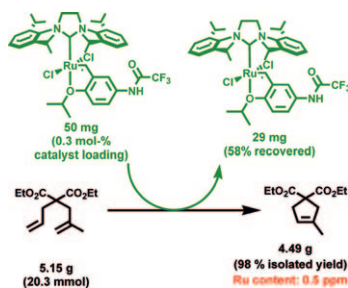
*Eur. J. Inorg. Chem.*  
DOI: 10.1002/ejic.200900365

### Metal–Nitrile Polymers

J. Olivier, S. Golhen\*, R. Świetlik, O. Cador, F. Pointillart, L. Ouahab\*

X-ray Structures, Spectroscopic and Magnetic Studies of a Coordination Polymer Series Based on a TTF Derivative and Paramagnetic Transition Metals

The reaction of 2,3,6,7-tetrakis(2-cyanoethylthio)tetrathiafulvalene (TCE-TTF) with hexafluoroacetylacetonate (hfac) salts of paramagnetic ( $\text{Co}^{\text{II}}$ ,  $\text{Mn}^{\text{II}}$ ) and diamagnetic ( $\text{Zn}^{\text{II}}$ ,  $\text{Cd}^{\text{II}}$ ) ions in the presence of tetrahedral anions ( $\text{BF}_4^-$  and  $\text{ClO}_4^-$ ) afforded four isostructural salts, whose structure and properties are presented.



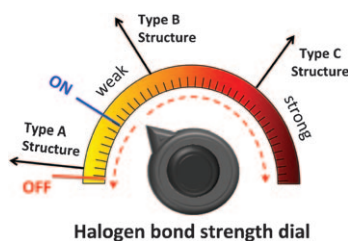
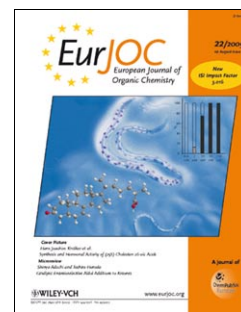
*Eur. J. Org. Chem.*  
DOI: 10.1002/ejoc.200900407

### Metathesis

H. Clavier, F. Caijo, E. Borré, D. Rix, F. Boeda, S. P. Nolan\*, M. Mauduit\*

Towards Long-Living Metathesis Catalysts by Tuning the N-Heterocyclic Carbene (NHC) Ligand on Trifluoroacetamide-Activated Boomerang Ru Complexes

The synthesis, characterization, and catalytic performance of novel trifluoromethylamido-containing “boomerang” precatalysts bearing various NHCs are presented. The reaction profiles show a matched effect between the activating function and the NHC ligand SIPr that also results in enhanced complex stability.



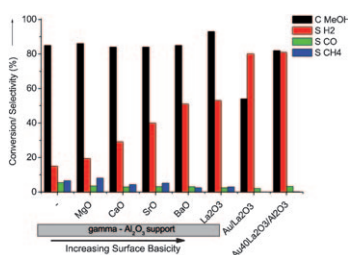
*Chem. Eur. J.*  
DOI: 10.1002/chem.200900410

### Crystal Engineering

G. Mínguez Espallargas, F. Zordan, L. Arroyo Marín, H. Adams, K. Shankland, J. van de Streek, L. Brammer\*

Rational Modification of the Hierarchy of Intermolecular Interactions in Molecular Crystal Structures by Using Tunable Halogen Bonds

**Dial-in interaction strength:** Tuning the strength of one type of intermolecular interaction affects the relative importance of different interactions in directing the crystal structure adopted.  $\text{C}-\text{X}\cdots\text{X}'-\text{M}$  halogen bonds can be tuned in strength by changing either the organic (X) or inorganic (X') halogen.



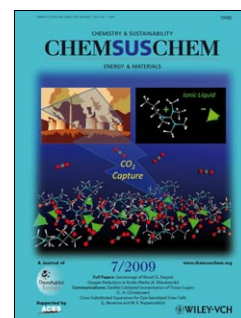
*ChemSusChem*  
DOI: 10.1002/cssc.200900108

### Methanol Oxidation

B. P. C. Hereijgers, B. M. Weckhuysen\*

Selective Oxidation of Methanol to Hydrogen over Gold Catalysts Promoted by Alkaline-Earth-Metal and Lanthanum Oxides

**Basic instinct:** CO-poor  $\text{H}_2$  production from methanol by partial oxidation over promoted gold catalysts is considerably enhanced by increasing the surface basicity of the catalyst. The combination of gold nanoparticles with lanthanum oxide as promoter or support material yields the highest  $\text{H}_2$  selectivity at the lowest CO formation.



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