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COVER PICTURE

The cover picture shows the $[2 \times 2]$ grid, $[\text{Cu}^{\text{I}}_4(2+2)_2]^{4+}$, of four copper(I) ions and two (2+2) Schiff-base macrocycles, which self-assembles when copper(I) ions are used to template the reaction of 3,6-diformylpyridazine with 1,3-diaminopropane. In each case the two parallel strands of the $[2 \times 2]$ grid are linked together in a single (2+2) Schiff-base macrocycle, and the two macrocycles approach each other at right angles to give rise to the perpendicular strands of the grid structure. Thus, the copper(I) ions have distorted tetrahedral geometries, with each macrocycle providing a bidentate donor set at right angles to that supplied by the other macrocycle. Details are discussed in the Microreview by S. Brooker on p. 2535 ff. The cover image was generated by M. Crawford (University of Otago) with Strata Studio Pro (Strata).



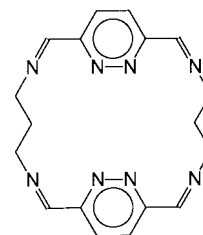
MICROREVIEW

Contents

2535 S. Brooker

Some Copper and Cobalt Complexes of Schiff-Base Macrocycles Containing Pyridazine Head Units

Keywords: N ligands / Schiff bases / Macrocyclic ligands / Electrochemistry / Magnetic properties



L14, a (2+2) macrocycle

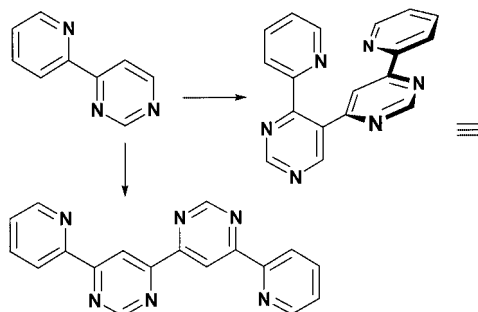
SHORT COMMUNICATIONS

- 2549** M. I. J. Polson, J. A. Lotoski, K. O. Johansson, N. J. Taylor, G. S. Hanan,* B. Hasenknopf, R. Thouvenot,* F. Loiseau, R. Passalacqua, S. Campagna*



Symmetric and Asymmetric Coupling of Pyridylpyrimidine for the Synthesis of Polynucleating Ligands

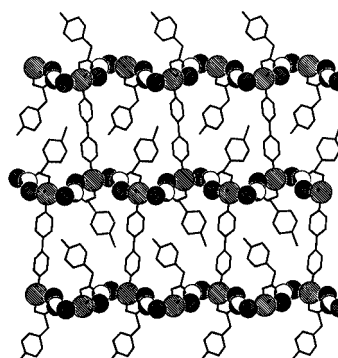
Keywords: Heterocycles / Ruthenium / N ligands / Radical reactions / Addition reactions



- 2553** J. Weng, M. Hong,* Q. Shi, R. Cao, A. S. C. Chan

Chiral Supramolecular Assemblies Derived from the Insertion of a Segmental Ligand into a Copper-Tyrosine Framework

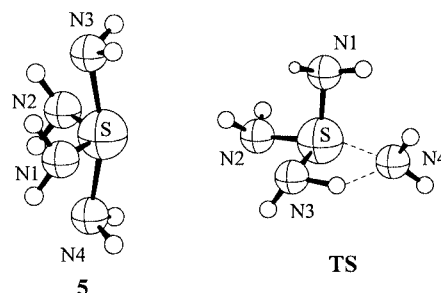
Keywords: Amino acids / Copper / Self-assembly / Polymers



- 2557** R. Steudel,* Y. Steudel, D. Lentz

Tetraamidosulfurane and its Decomposition Products – an ab initio MO Study

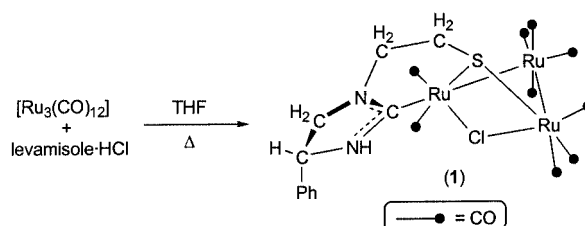
Keywords: Sulfur / Hypervalent compounds / Reaction mechanisms / Ab initio calculations



- 2561** J. A. Cabeza,* I. del Río, S. García-Granda, V. Riera, M. G. Sánchez-Vega

Facile C–S Bond Activation of Levamisole Hydrochloride on a Triruthenium Cluster Core

Keywords: Ruthenium / Metal clusters / Levamisole / S ligands / C–S bond activation

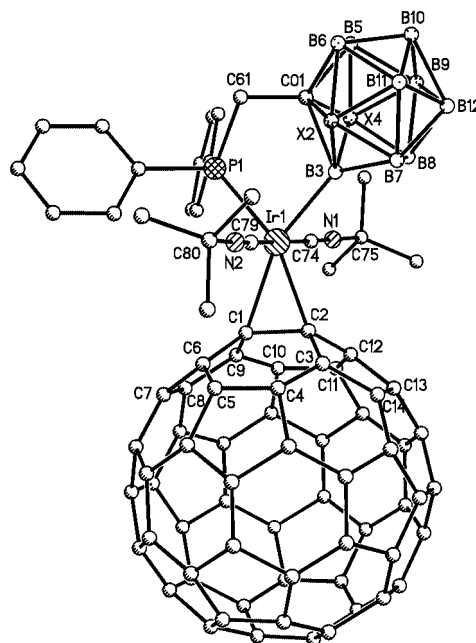


2565

A. V. Usatov,* E. V. Martynova,
F. M. Dolgushin, A. S. Peregudov,
M. Yu. Antipin, Yu. N. Novikov

Fullerene and Carborane in One Coordination Sphere: Synthesis and Structure of a Mixed η^2 - C_{60} and σ -Carboranyl Complex of Iridium

Keywords: Fullerenes / Boranes / Iridium / Complexes / X-ray analysis



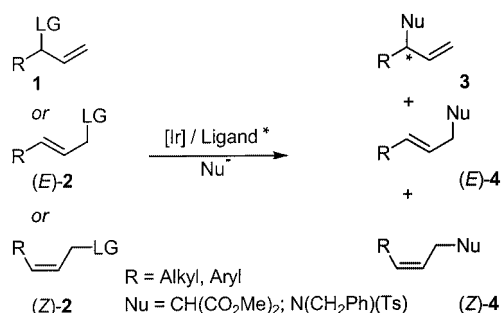
FULL PAPERS

2569

B. Bartels, C. García-Yebra, F. Rominger,
G. Helmchen*

Iridium-Catalysed Allylic Substitution: Stereochemical Aspects and Isolation of Ir^{III} Complexes Related to the Catalytic Cycle

Keywords: Iridium / Allyl complexes / NMR spectroscopy / Allylic substitution / Asymmetric catalysis

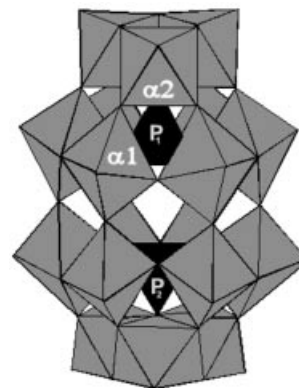


2587

R. Contant, M. Richet, Y. W. Lu, B. Keita,
L. Nadjo*

Isomerically Pure α_1 -Monosubstituted Tungstodiphosphates: Synthesis, Characterization and Stability in Aqueous Solutions

Keywords: Polyanions / Phosphates / Tungsten

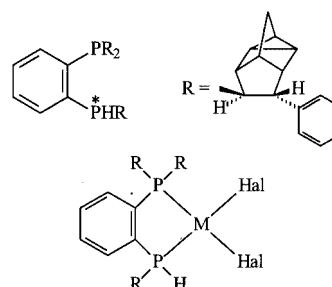


2594

H. Brunner,* S. Dormeier, M. Zabel

Stereochemical Exploitation of the Chiral (+)-9-Phenyldeltacyclanyl Substituent in Diphosphanes and Their Ni, Pd and Pt Complexes

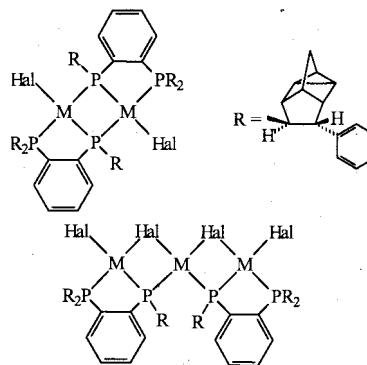
Keywords: Deltacyclenes / Chiral ligands / Phosphanes / Nickel / Palladium / Platinum



2603 H. Brunner,* S. Dormeier, I. Grau,
M. Zabel

Dinuclear and Trinuclear Ni–, Pd–, and Pt–Halide Complexes of the Easily Accessible Chiral Ligand *P,P,P'*-Tris[(+)-9-phenyldeltacyclan-8-yl]-1,2-bis(phosphanyl)benzene

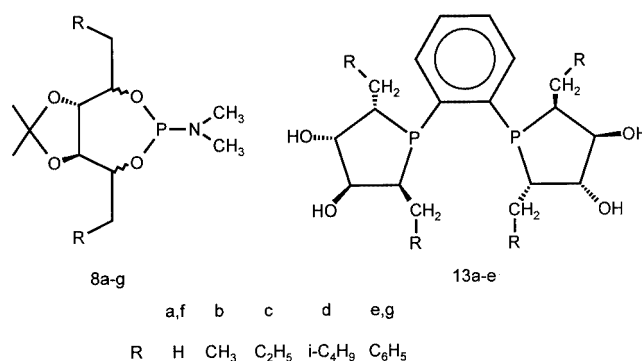
Keywords: Nickel complexes / Palladium complexes / Platinum complexes / Phosphido bridges / Phosphorus configuration



2614 A. Bayer, P. Murszat, U. Thewalt,
B. Rieger*

Chiral Mono- and Bidentate Ligands Derived from D-Mannitol and Their Application in Rhodium(I)-Catalyzed Asymmetric Hydrogenation Reactions

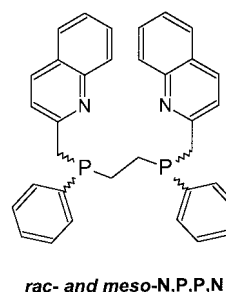
Keywords: Chiral pool / P ligands / Rhodium / Asymmetric catalysis / Hydrogenation



2625 G. Müller, M. Klinga, M. Leskelä,
B. Rieger*

Metal Complexes of the Tetradentate Ligands *rac*- and *meso*-N,P,P,N: Synthesis, Separation and Structural Characterization

Keywords: N ligands / P ligands / Iron / Palladium / Cobalt

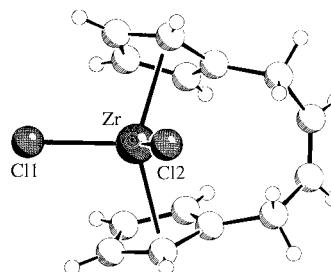


2633 D. Hürländer, N. Kleigrewe, G. Kehr,
G. Erker,* R. Fröhlich



Synthesis, Structural and Chemical Characterization of Unsaturated C₄- and C₁₀-Bridged Group-4 *ansa*-Metallocenes Obtained Through a Ring-Closing Olefin Metathesis Reaction

Keywords: Carbenes / Metallocenes / Metathesis / Olefins / Ruthenium / Zirconium



2643 G. Linti,* W. Köstler, H. Pritzkow

Bismuthanides and Bismuthanediides – Synthesis and Structural Characterization of $[\text{R}_2\text{Bi}]^-$ and $[(\text{RBi})_{12}\text{Na}_{21}]^{3-}$ Salts with Bulky Silyl Substituents

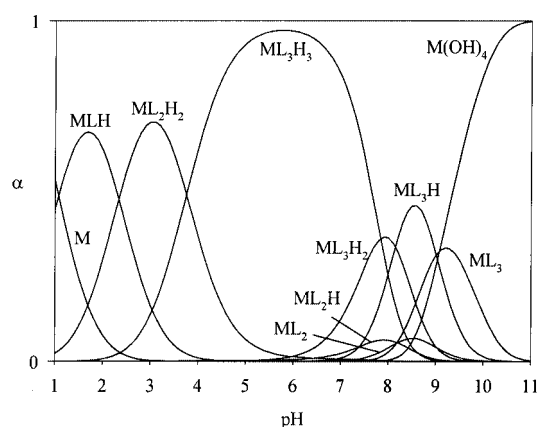
Keywords: Bismuth / Lithium / Sodium / Silicon / Cluster compounds



2648 V. B. Di Marco, R. A. Yokel, M. G. Ferlin, A. Tapparo, G. G. Bombi*

Evaluation of 3,4-Hydroxypyridinecarboxylic Acids as Possible Bidentate Chelating Agents for Aluminium(III): Synthesis and Metal–Ligand Solution Chemistry

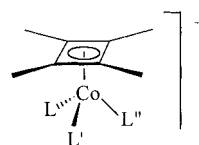
Keywords: Aluminium / Carboxylate ligands / Potentiometry / Chelation therapy



2656 M. V. Butovskii, U. Englert, A. A. Fil'chikov, G. E. Herberich,* U. Koelle, A. R. Kudinov*

(Tetramethylcyclobutadiene)cobalt Complexes – Syntheses of Tris(ligand) Derivatives and Structures of $[(\text{C}_4\text{Me}_4)\text{Co}(\text{CO})_3]\text{BF}_4$ and $[(\text{C}_4\text{Me}_4)\text{Co}(\text{NCMe})_3]\text{PF}_6$

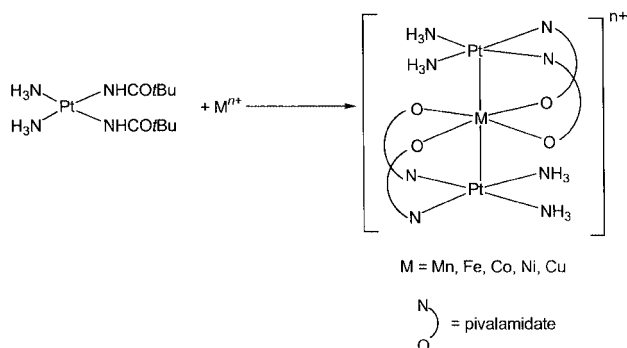
Keywords: Cobalt / Cyclobutadiene complexes / Metallo-electrophiles



2664 W. Chen, K. Matsumoto*

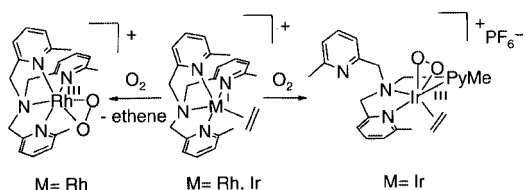
Synthesis and Structural Characterization of Trinuclear, Amidate-Bridged Heterobimetallic Complexes $[\{\text{Pt}(\text{NH}_3)_2(\text{NHCOtBu})_2\}_2\text{M}]\text{X}_n$ ($\text{M} = \text{Mn}, \text{Fe}, \text{Co}, \text{Ni}, \text{Cu}$; $\text{X} = \text{BF}_4^-, \text{ClO}_4^-$; $n = 2$ or 3)

Keywords: N ligands / Bridging ligands / Platinum / Manganese / Iron / Cobalt / Nickel / Copper



- 2671** B. de Bruin,* T. P. J. Peters,
J. B. M. Wilting, S. Thewissen,
J. M. M. Smits, A. W. Gal*

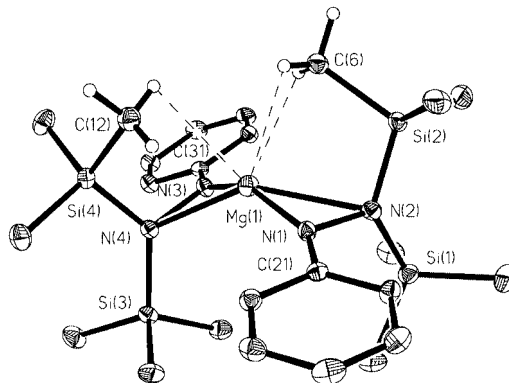
Dioxygenation of Sterically Hindered (Ethene)-
Rh^I and -Ir^I Complexes to (Peroxo)Rh^{III} and
(Ethene)(peroxo)Ir^{III} Complexes



Keywords: Alkene ligands / Iridium / O–O activation /
Oxidations / Peroxo ligands

- 2681** H. Sachdev

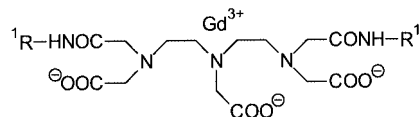
New Aspects in the Coordination Chemistry of
Magnesium Hydrazides



Keywords: Hydrazides / Coordination chemistry /
Magnesium / N ligands

- 2686** F. Botteman, G. M. Nicolle, L. Vander Elst,
S. Laurent, A. E. Merbach,
R. N. Muller*

Synthesis, Variable Temperature and Pressure
¹⁷O NMR Study of Bis(alkylamide) Derivatives
of [(Gd-DTPA)(H₂O)]²⁻ – An Assessment of
the Substitution Effect on Water Exchange
Kinetics

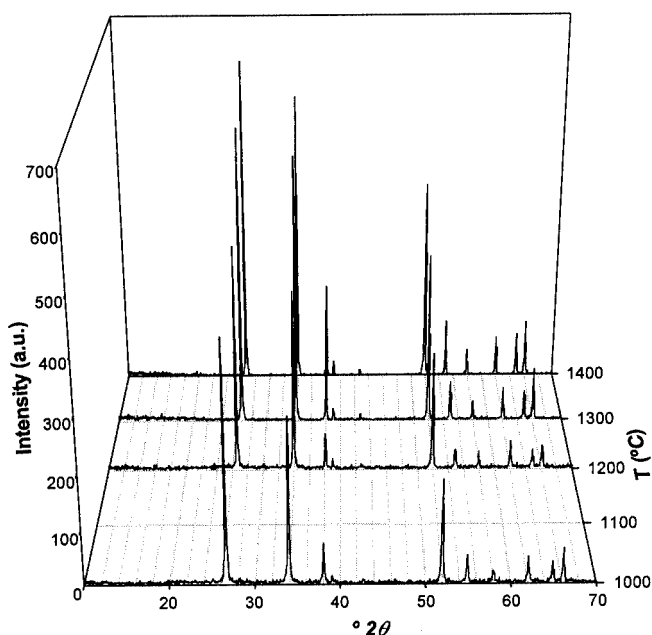


Keywords: Water exchange / MRI contrast agents /
DTPA-bis(amide) derivatives / Substituent
effects / ¹⁷O

- 2694** B. Julián, H. Beltrán, E. Cordnoncillo,
P. Escribano,* J. V. Folgado,
M. Vallet-Regí, R. P. del Real

A Study of the Method of Synthesis and Chromatic Properties of the Cr-SnO₂ Pigment

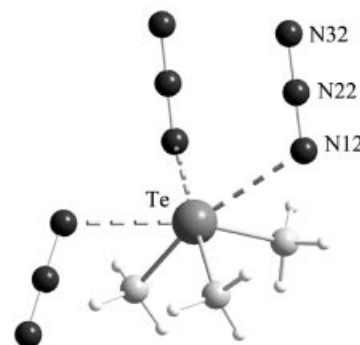
Keywords: Ceramics / Chromium / Chromium-tin pigment / Solid-state reactions



- 2701** T. M. Klapötke,* B. Krumm, P. Mayer,
H. Piotrowski, I. Schwab, M. Vogt

Synthesis and Structures of Triorganotelluronium Pseudohalides

Keywords: Tellurium / Azides / NMR spectroscopy / Noncovalent interactions

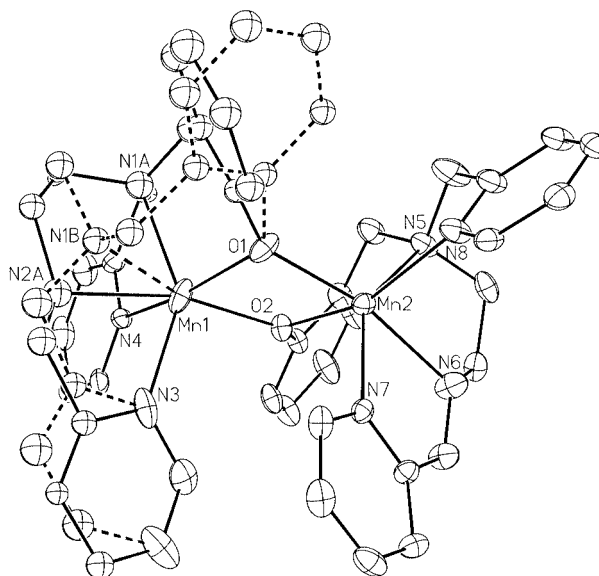


- 2710** C. Hureau, E. Anxolabéhère-Mallart,
M. Nierlich, F. Gonnet, E. Rivière,
G. Blondin*



Synthesis, Structure and Characterisation of New Phenolato-Bridged Manganese Complexes [L₂Mn₂]²⁺ – Formation by Ligand Oxidation in L_aH [L_aH = *N*-(2-hydroxybenzyl)-*N,N'*-bis(2-pyridylmethyl)ethane-1,2-diamine]

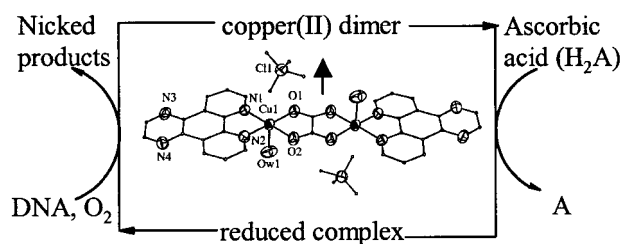
Keywords: Manganese / N,O ligands / Electrochemistry / EPR spectroscopy



2720 A. M. Thomas, G. Neelakanta,
S. Mahadevan, M. Nethaji,
A. R. Chakravarty*



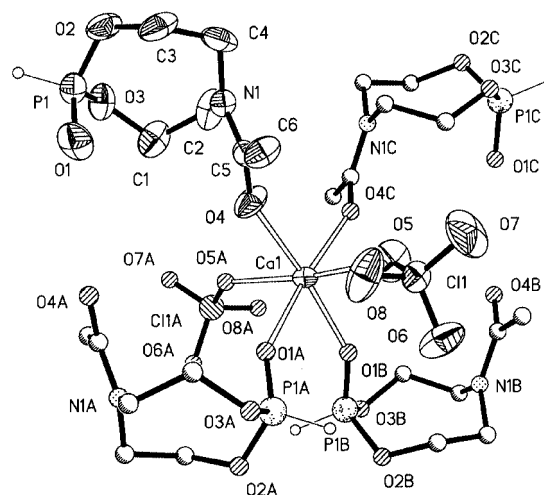
Syntheses, Crystal Structure, and Nuclease Activity of Oxalato-Bridged Dicopper(II) Complexes with Planar N-Donor Heterocyclic Bases



Keywords: Catalysis / Copper / Crystal structure / Magnetic properties / Nuclease activity

2727 E. Sutra, L. Lamandé, H. Gornitzka,
J. Bellan*

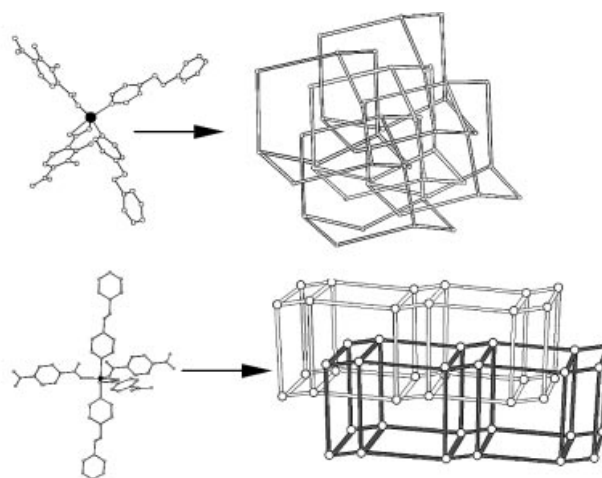
A New Oligomeric Complex of Cyclic Hydrogenphosphonates with Calcium Perchlorate



Keywords: Phosphorus heterocycles / Calcium / P ligands / Self-assembly / Noncovalent interactions

2730 Z.-Y. Fu, X.-T. Wu,* J.-C. Dai, S.-M. Hu,
W.-X. Du, H.-H. Zhang, R.-Q. Sun

The Structure and Fluorescence Properties of Two Novel Mixed-Ligand Supramolecular Frameworks with Different Structural Motifs



Keywords: Crystal engineering / Cobalt / Fluorescence / Supramolecular chemistry

Eur. J. Inorg. Chem. **2002**, 2523–2531