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COVER PICTURE

The cover picture shows the supramolecular structure of an inclusion complex between the trisilanol 1,3,5-(HOiPr₂Si)₃C₆H₃ and *trans*-bis(4-pyridyl)ethylene (bpe). The trisilanol molecules are associated by SiO–H···O(H)Si hydrogen bonds, giving rise to the formation of 1D (horizontal) chains. The bpe molecules resemble pillars that are situated perpendicularly to the 1D chains and linked by SiO–H···N hydrogen bonds. The supramolecular motif is somewhat reminiscent of the Acropolis of Selinunte built 650 BC in Sicily, a masterpiece of classical Greek architecture. Details of synthesis and structures of supramolecular complexes between the trisilanol 1,3,5-(HOiPr₂Si)₃C₆H₃ and a number of 4,4'-bis(pyridine) compounds are described in the article by J. Beckmann and S. L. Jänicke on p. 3351 ff.



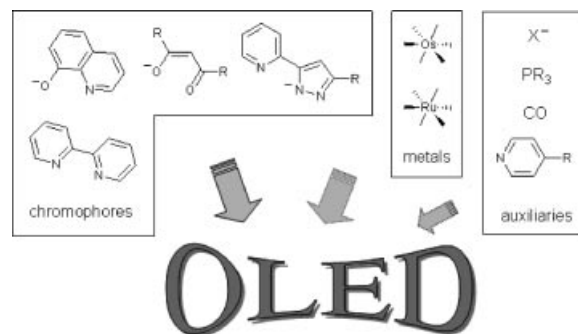
MICROREVIEW

Contents

3319 P.-T. Chou,* Y. Chi*

Osmium- and Ruthenium-Based Phosphorescent
 Materials: Design, Photophysics, and Utilization
 in OLED Fabrication

Keywords: Osmium / Ruthenium / N ligands /
 Phosphorescence / Luminescence



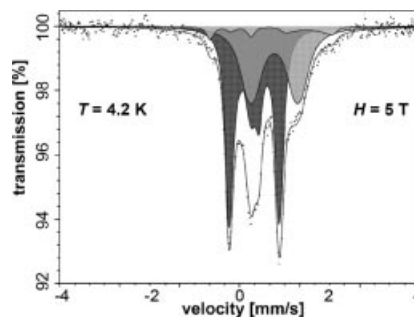
SHORT COMMUNICATIONS

- 3333** Y. Garcia,* C. M. Grunert, S. Reiman,
O. van Campenhout, P. Gülich*



The Two-Step Spin Conversion in a Supramolecular Triple Helicate Dinuclear Iron(II) Complex Studied by Mössbauer Spectroscopy

Keywords: Spin crossover / Molecular bistability / Supramolecular chemistry / Iron(II) dinuclear compounds / Two-step conversion / Mössbauer spectroscopy

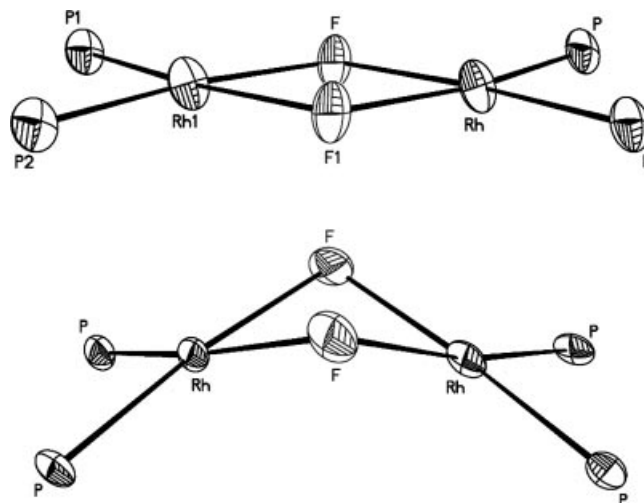


- 3340** W. J. Marshall,* G. Aullón,* S. Alvarez,
K. D. Dobbs, V. V. Grushin*



“To Bend or not To Bend?” Both! The Planar and Bent Structures of $[(\text{Ph}_3\text{P})_4\text{Rh}_2(\mu\text{-F})_2]$

Keywords: Isomerism / Rhodium / Fluorine / X-ray diffraction / Theoretical calculations

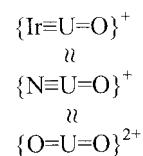


- 3346** M. Santos, J. Marçalo,* A. Pires de Matos,
J. K. Gibson,* R. G. Haire

Actinide-Transition Metal Heteronuclear Ions and Their Oxides: $\{\text{IrUO}\}^+$ as an Analogue to Uranyl

Keywords: Actinides / Ion–molecule reactions / Isobal relationship / Mass spectrometry / Metal–metal interactions / Uranium

Ersatz Uranyl

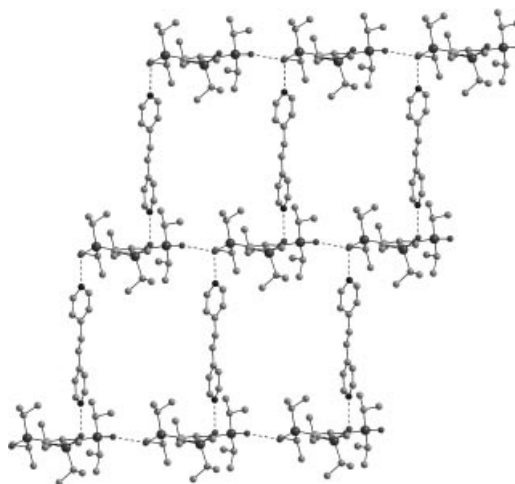


FULL PAPERS

- 3351** J. Beckmann,* S. L. Jänicke

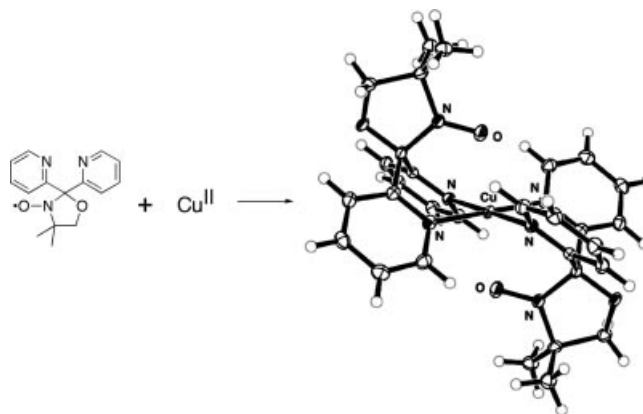
Supramolecular Silanol Chemistry: Inclusion Complexes of 1,3,5-Tris(diisopropylhydroxysilyl)benzene and 4,4'-Bis(pyridines)

Keywords: Supramolecular chemistry / Crystal engineering / Inclusion compounds / Hydrogen bonds / Silicon



3359 A. Ito, Y. Nakano, M. Urabe, K. Tanaka,*
M. Shiro

Structural and Magnetic Studies of Copper(II) and Zinc(II) Coordination Complexes Containing Nitroxide Radicals as Chelating Ligands

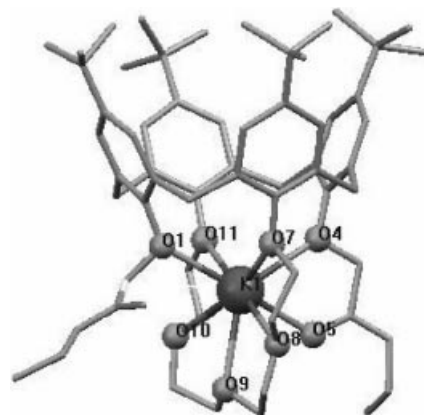


Keywords: Copper / Density functional calculations / Magnetic properties / Radicals / Zinc

3369 P. Agnihotri, E. Suresh, P. Paul,*
P. K. Ghosh*



Synthesis, Crystal Structures, Cation-Binding Properties and the Influence of Intramolecular C–H···O Interactions on the Complexation Behaviour of a Family of Cone *p*-*tert*-Butylcalix-[4]arene-crown-5 Compounds

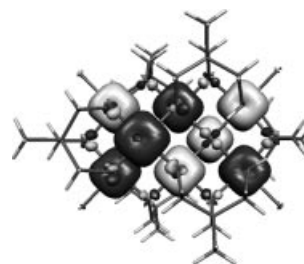


Keywords: Calixarenes / Crown compounds / Selectivity / Association constants

3382 C. E. Talbot-Eeckelaers, G. Rajaraman,
J. Cano,* G. Aromí, E. Ruiz, E. K. Brechin*



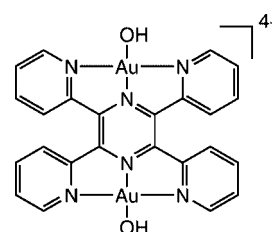
Encouraging Chromium(III) Ions to Form Larger Clusters: Syntheses, Structures, Magnetic Properties and Theoretical Studies of Di- and Octametallic Cr Clusters



Keywords: Exchange coupling / Density functional theory / Polynuclear chromium complexes / Magnetic properties / Magneto-structural correlation

3393 M. Bortoluzzi,* E. De Faveri, S. Daniele,
B. Pitteri

Synthesis of a New Tetrakis(2-pyridinyl)pyrazine Complex of Gold(III) and Its Computational, Spectroscopic and Electrochemical Characterization

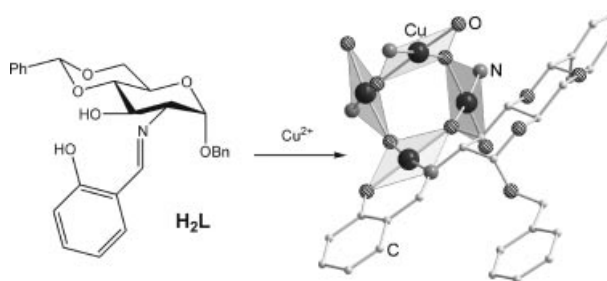


Keywords: Gold / N ligands / Density functional calculations / Electrochemistry

3400 A. Burkhardt, A. Buchholz, H. Görls,
W. Plass*

Synthesis, Structure and Magnetic Properties of a Tetranuclear Copper(II) Complex on the Basis of a 2-Substituted Glucopyranoside Schiff Base Ligand

Keywords: Carbohydrates / Schiff base ligands / Copper(II) complexes / Magnetic properties

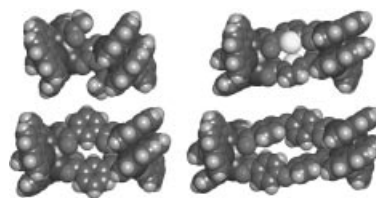


3407 J.-P. Zhang, Y.-Y. Lin, X.-C. Huang,
X.-M. Chen*



Designed Assembly and Structures and Photoluminescence of a New Class of Discrete Zn^{II} Complexes of 1*H*-1,10-Phenanthroline-2-one

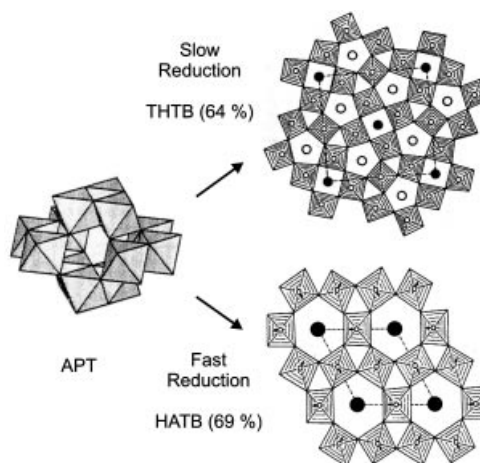
Keywords: Zinc / Cluster compounds / Metallacycles / Photoluminescence / Solvothermal synthesis



3413 I. M. Szilágyi,* F. Hange, J. Madarász,
G. Pokol

In situ HT-XRD Study on the Formation of Hexagonal Ammonium Tungsten Bronze by Partial Reduction of Ammonium Paratungstate Tetrahydrate

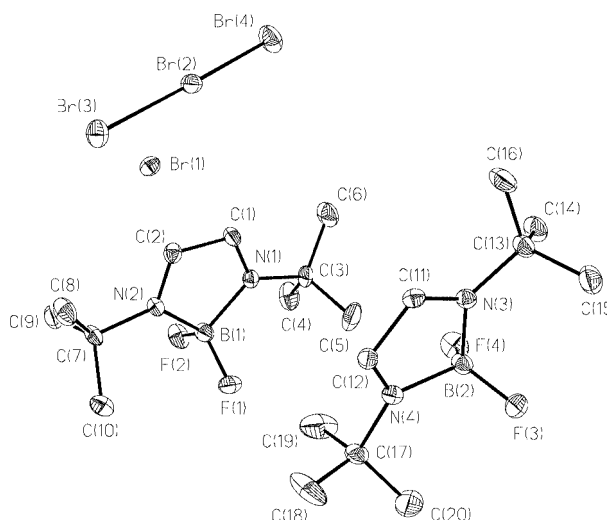
Keywords: Tungsten / Reduction / In situ studies / X-ray diffraction / X-ray photoelectron spectroscopy / Solid-state ¹H NMR spectroscopy



3419 L. Weber,* I. Domke, J. Kahlert,
H.-G. Stammer

Chemical Oxidation of 1,3,2-Diazaboroles and 1,3,2-Diazaborolidines

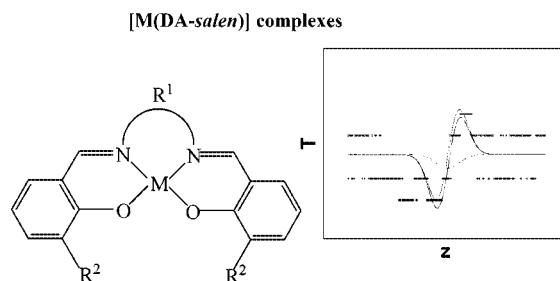
Keywords: Diazaboroles / Diazaborolidines / Diazaborolium salts / Nitrosonium hexafluorophosphate



- 3425** J. Tedim, S. Patrício, R. Bessada,
R. Morais, C. Sousa, M. B. Marques,
C. Freire*

Third-Order Nonlinear Optical Properties of
DA-salen-Type Nickel(II) and Copper(II)
Complexes

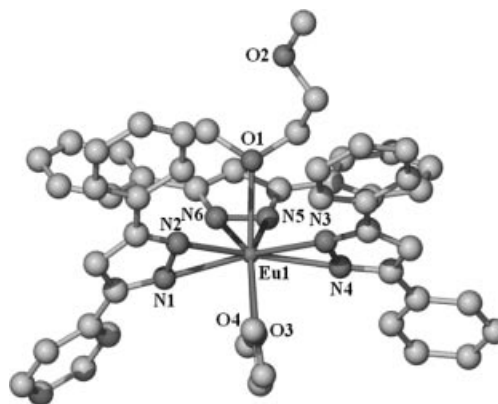
Keywords: Third-order NLO properties / Z-scan technique / UV/Vis spectroscopy / Schiff bases



- 3434** S. Beaini, G. B. Deacon,* M. Hilder,
P. C. Junk, D. R. Turner

Organotin Compounds as Reagents for the
Synthesis of Lanthanoid Complexes by Redox
Transmetallation Reactions

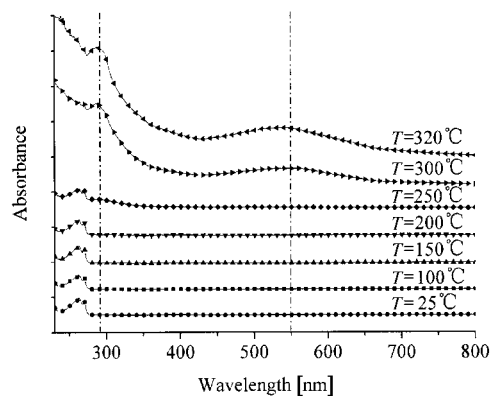
Keywords: Redox transmetallation / Lanthanoid / Trimethyltin reagents / Pyrazolate / Aryl oxide / Ytterbium / Europium



- 3442** M. Wei, X. F. Tian, J. He, M. Pu,
G. Y. Rao, H. L. Yang, L. Yang, T. Liu,
D. G. Evans, X. Duan*

Study of the In Situ Postintercalative Polymerization of Metanilic Anions Intercalated in NiAl-Layered Double Hydroxides under a Nitrogen Atmosphere

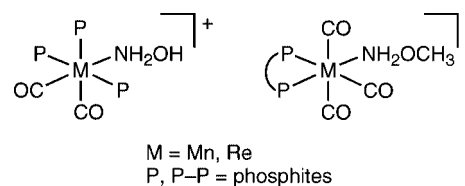
Keywords: In situ polymerization / Polyaniline / Layered double hydroxides / Nitrogen atmosphere



- 3451** G. Albertin,* S. Antoniutti, J. Bravo,
J. Castro, S. García-Fontán, M. C. Marín,
M. Noè

Preparation of Hydroxylamine and *O*-Methylhydroxylamine Complexes of Manganese and Rhenium

Keywords: Hydroxylamine / *O*-Methylhydroxylamine / CO and P ligands / Manganese / Rhenium / Oxidation

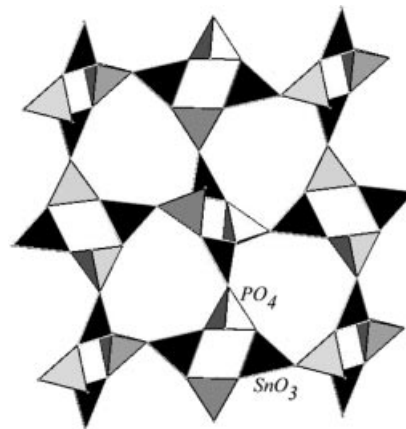


3463 P. Ramaswamy, S. Natarajan*



Amine-Intercalated Layered Sn^{II} Phosphates with Open-Framework Structures

Keywords: Template synthesis / X-ray diffraction / Layered compounds / Hydrogen bonds / Tin / Phosphorus

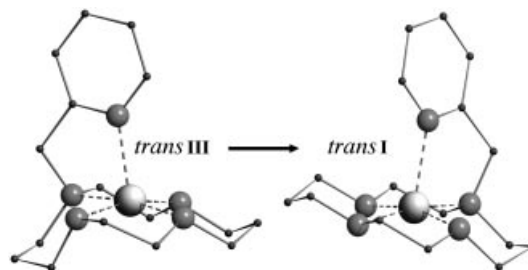


3472 S. El Ghachtouli, C. Cadiou,
I. Déchamps-Olivier, F. Chuburu,*
M. Aplincourt, T. Roisnel



(Cyclen- and cyclam-pyridine)copper Complexes: The Role of the Pyridine Moiety in Cu^{II} and Cu^{I} Stabilisation

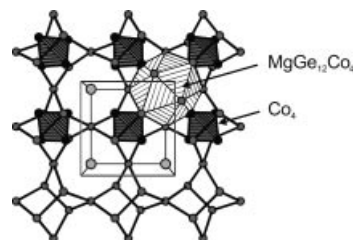
Keywords: Copper / Cyclen and cyclam ligands / X-ray diffraction / UV/Vis and EPR spectroscopy / Electrochemistry / Configurational isomerisation



3482 C. Gieck, M. Schreyer, T. F. Fässler,*
F. Raif, P. Claus

Crystal Structure and Properties of MgCo_4Ge_6

Keywords: Intermetallic phases / Germanium / Heterogeneous catalysis / ELF (Electron Localization Function) / Density functional theory

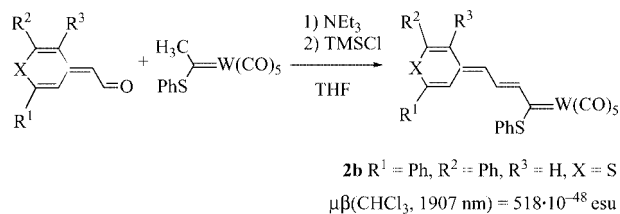


3489 N. Faux, F. Robin-Le Guen, P. Le Poul,
B. Caro, K. Nakatani, E. Ishow, S. Golhen



Synthesis and NLO Properties of 4-(4*H*-Chalcogenopyran-4-ylidene and 4*H*-chalcogenochromen-4-ylidene)-1-(phenylthio)but-2-enylidene Complexes – Electronic Influence of the Carbene Fragment

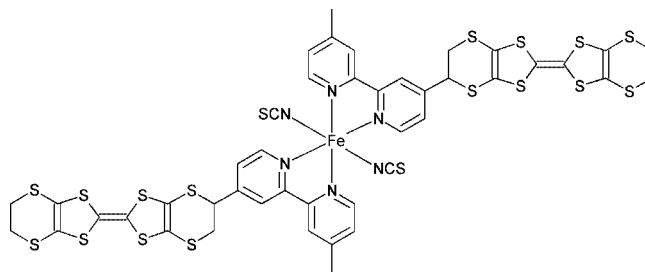
Keywords: Chalcogeno- and benzochalcogenopyran / Fischer-type thiocarbene complexes / NLO properties / X-ray structure of thiocarbene



3498 K. Hervé, S.-X. Liu, O. Cador, S. Golhen,
Y. Le Gal, A. Bousseksou,
H. Stoeckli-Evans, S. Decurtins,
L. Ouahab*

Synthesis of a BEDT-TTF Bipyridine Organic Donor and the First Fe^{II} Coordination Complex with a Redox-Active Ligand

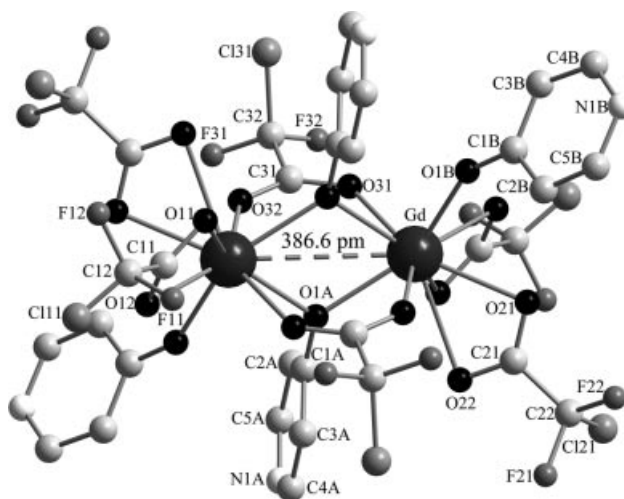
Keywords: Iron / N ligands / BEDT-TTF / Synthesis design / Redox chemistry



3503 D. John, W. Urland*

Crystal Structure and Magnetic Behaviour of the New Gadolinium Carboxylates Gd₂(ClF₂C-COO)₆(hpy)₂, Gd₂(F₃CCOO)₆(hpy)₂, Gd₂(F₂-HCCOO)₆(hpy)₂ and Gd₂(Cl₂HCCOO)₆(H₂O)₂-(hpy)₂

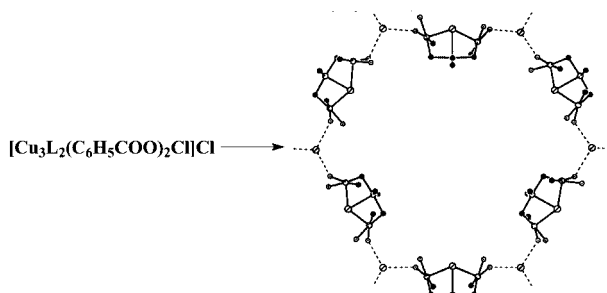
Keywords: Gadolinium / Carboxylates / O ligands / X-ray diffraction / Crystal structures / Magnetic properties



3510 S. Sarkar, A. Mondal, D. Chopra, J. Ribas,
K. K. Rajak*

A Ferromagnetically Coupled, Bent, Trinuclear Copper(II) Complex: Synthesis, Structure, Hydrogen-Bonding Network, Magnetic Properties and DNA Interaction Study

Keywords: Copper / Reduced Schiff base / Magnetic properties / Hydrogen bonds / DNA recognition

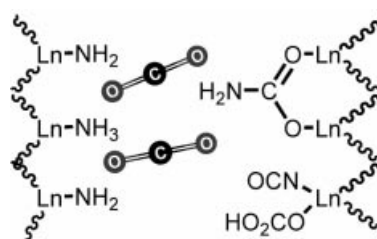


3517 U. Baisch, S. Pagano, M. Zeuner,
W. Schnick*

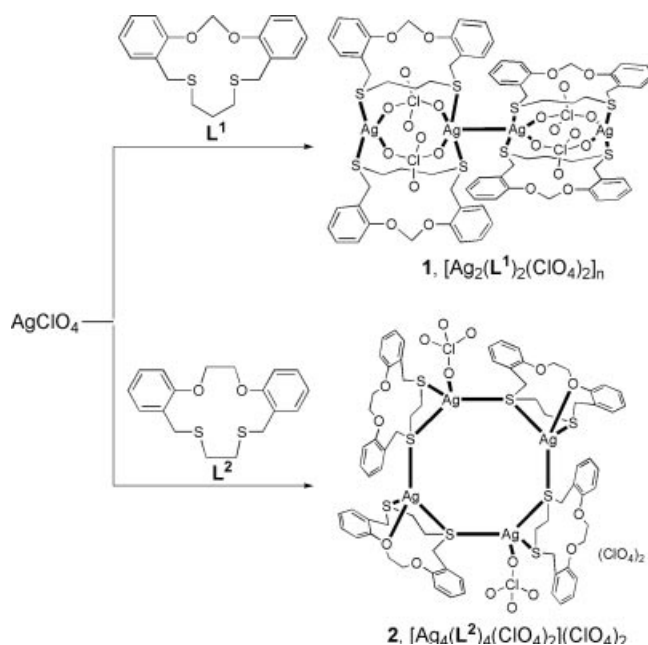


Carbon Dioxide Fixation by Organolanthanides and Thermal Degradation into Amorphous and Higher Condensed Ln/O/C/N Solids

Keywords: Carbon dioxide fixation / Lanthanides / Organometallic precursors / IR spectroscopy

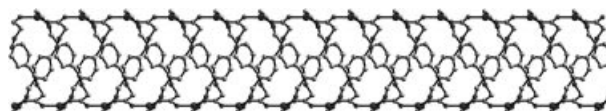


A Poly(bicyclic dimer) and a Cyclic Tetramer:
Ligand Isomerism of S₂O₂ Macrocycles During
the Assembly of Supramolecular Silver(I)
Complexes



Keywords: Macrocycles / Silver / Self-assembly /
Supramolecular chemistry / Polymers

A Zn^{II}-Based Chiral Crystalline Nanotube



Keywords: Coordination polymer/ Chirality / Nano-
tubes / Triple helix / Nonlinear optics /
Fluorescence



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