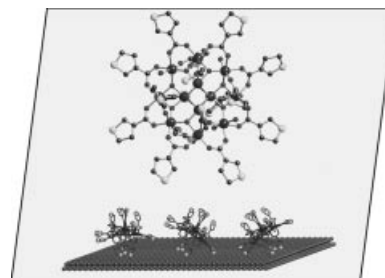


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COVER PICTURE

The cover picture shows the Mn12 single-molecule magnet (SMM), which has a 3-thiophenecarboxylate ligand and is formed by the ligand substitution reaction of Mn12-ac with 16 equiv. of 3-thiophenecarboxylic acid in toluene. The reaction of Mn12-ac with 17 equiv. of 3-thiophenecarboxylic acid affords a different Mn12 SMM that shows a more distorted structure and has a faster relaxation rate. The Mn12 SMM is strongly anchored on the gold surface through the sulfur atoms of the thiophenyl group. The Mn12 molecular film on Au(111) was characterized by XPS, STM, and AFM. Further details are discussed in the article by J. Kim et al. on p. 711 ff.



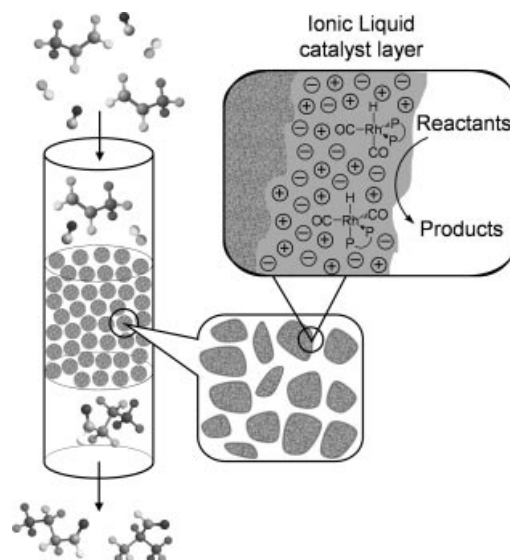
MICROREVIEW

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695 A. Riisager,* R. Fehrmann, M. Haumann,*
 P. Wasserscheid

Supported Ionic Liquid Phase (SILP) Catalysis:
 An Innovative Concept for Homogeneous Catalysis
 in Continuous Fixed-Bed Reactors

Keywords: Ionic liquids / Supported catalysts / Immobilisation / Homogeneous catalysis / Hydroformylation



SHORT COMMUNICATION

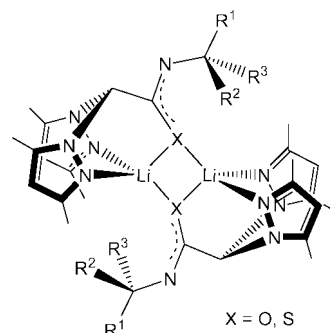
707

A. Otero,* J. Fernández-Baeza,*
A. Antiñolo, J. Tejada, A. Lara-Sánchez,
L. Sánchez-Barba, M. Sánchez-Molina,
S. Franco, I. López-Solera, A. M. Rodríguez



A Simple and Efficient Synthetic Route to
Enantiopure Scorpionate Ligands

Keywords: Scorpionate ligands / Chiral ligands /
Lithium / Titanium



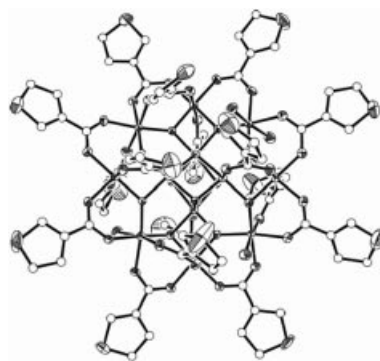
FULL PAPERS

711

J. M. Lim, Y. Do, J. Kim*

Molecular Structures and Magnetism of Mn₁₂
Nanomagnets Containing the 3-Thiophenecar-
boxylate Ligand

Keywords: Single-molecule magnet / Mn₁₂ complex /
Molecular structure / Magnetic properties /
Molecular films

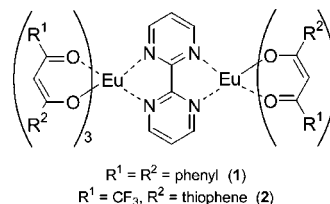


718

H. Jang, C.-H. Shin, B.-J. Jung, D. Kim,
H.-K. Shim,* Y. Do*

Synthesis and Characterization of Dinuclear
Europium Complexes Showing Pure Red Elec-
troluminescence

Keywords: Electroluminescence / Europium / Dinu-
clear complexes / 2,2'-Bipyrimidine



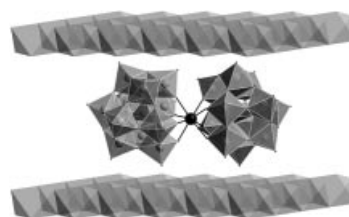
R¹ = R² = phenyl (1)
R¹ = CF₃, R² = thiophene (2)

726

F. L. Sousa, M. Pillinger, R. A. Sá Ferreira,
C. M. Granadeiro, A. M. V. Cavaleiro,
J. Rocha, L. D. Carlos, T. Trindade,
H. I. S. Nogueira*

Luminescent Polyoxotungstoeuropate Anion-
Pillared Layered Double Hydroxides

Keywords: Layered double hydroxides / Layered com-
pounds / Polyoxometalates / Host–guest
systems / Luminescence

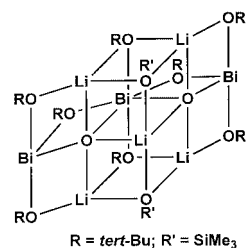


735 M. Mehring,* D. Mansfeld, B. Costisella, M. Schürmann



The First Metal-Oxo Cluster Containing Lithium and Bismuth

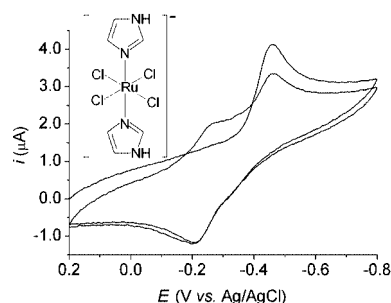
Keywords: Bismuth / Lithium / Silanolate / Alkoxide / Metal-oxo cluster



740 M. Ravera, C. Cassino, S. Baracco, D. Osella*

New Insights into the Redox Chemistry of Ruthenium Metallopharmaceuticals: The Electrochemical Behaviour of $[\text{LH}][\text{trans-Ru}^{\text{III}}\text{Cl}_4\text{L}_2]$ (L = imidazole or indazole) Complexes

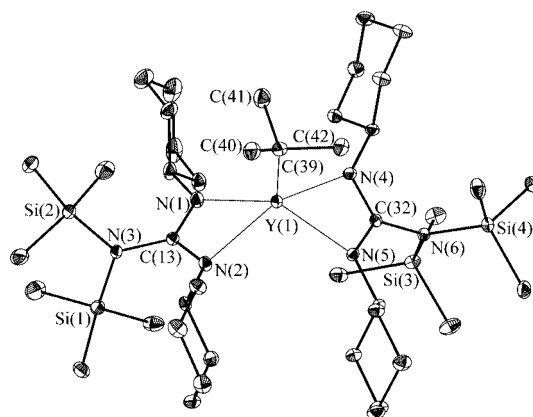
Keywords: Antitumor agents / Electrochemistry / Redox chemistry / Ruthenium



747 A. A. Trifonov,* D. M. Lyubov, E. A. Fedorova, G. K. Fukin, H. Schumann, S. Mühle, M. Hummert, M. N. Bochkarev

Chloro, Alkyl and Aryl Complexes of Rare Earth Metals Supported by Bulky Tetrasubstituted Guanidinate Ligands

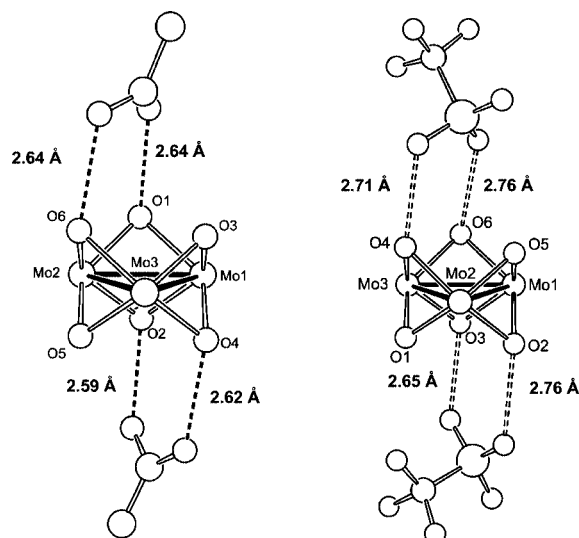
Keywords: Alkyl complexes / Aryl complexes / Guanidines / N ligands / Rare Earths



757 F. Demirhan,* B. Çağatay, D. Demir, M. Baya, J.-C. Daran, R. Poli*

Reduction of $[\text{Cp}^*_2\text{Mo}_2\text{O}_5]$ in Aqueous Medium: Structure and Properties of a Triangular Mixed Oxo-Hydroxo-Bridged Product, $[\text{Cp}^*_3\text{Mo}_3(\mu\text{-O})_2(\mu\text{-OH})_4](\text{X})_2$ (X = CF_3CO_2 or CF_3SO_3)

Keywords: Bridging ligands / Hydrogen bonding / Metal-metal interactions / Molybdenum / Oxo ligands

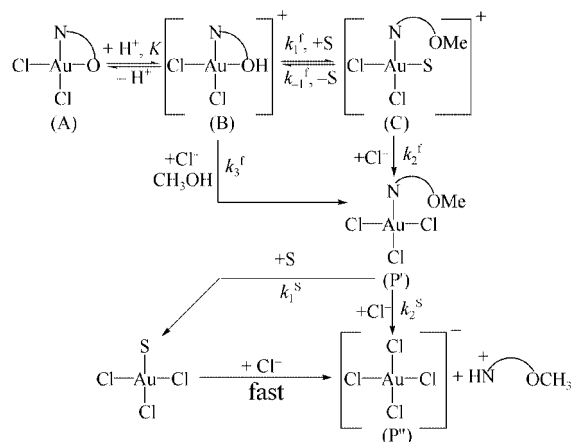


765

G. Marangoni,* B. Pitteri, G. Annibale,
M. Bortoluzzi

Ring Opening and Displacement by Chloride of the Bidentate Chelate Ligand from Dichloro-[pyridine-2-(α -methoxymethanolato)]gold(III) – A Kinetic and Mechanistic Study

Keywords: Chelate displacement / Gold / Kinetics / Reaction mechanism

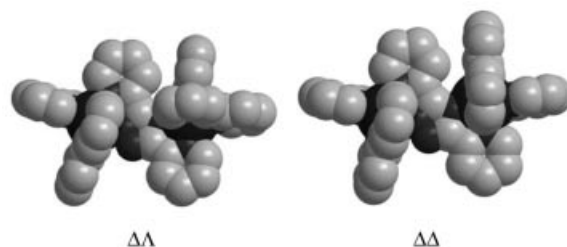


772

D. M. D'Alessandro, P. H. Dinolfo,
J. T. Hupp, P. C. Junk, F. R. Keene*

The Effective Electron-Transfer Distance in Dinuclear Ruthenium Complexes Containing the Unsymmetrical Bridging Ligand 3,5-Bis(2-pyridyl)-1,2,4-triazolate

Keywords: Electron transfer / Mixed-valent compounds / Through-bond interactions / Dinuclear / Stereochemistry / Stark spectroscopy / Ruthenium

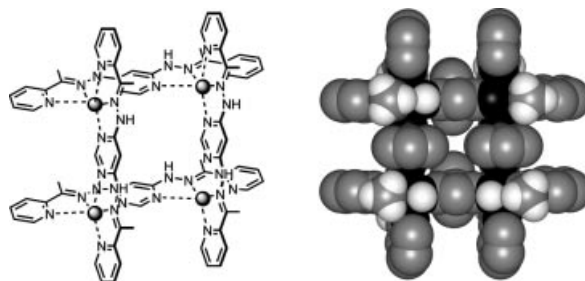


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M. Barboiu, M. Ruben, G. Blasen,
N. Kyritsakas, E. Chacko, M. Dutta,
O. Radekovich, K. Lenton, D. J. R. Brook,*
J.-M. Lehn*

Self-Assembly, Structure and Solution Dynamics of Tetranuclear Zn²⁺ Hydrazone [2×2] Grid-Type Complexes

Keywords: Self-assembly / Grid-type complexes / Hydrazone ligands / Zinc / Supramolecular chemistry



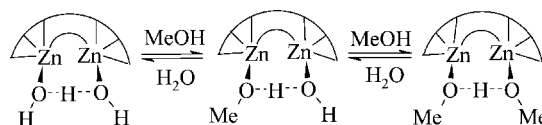
793

E. Jaime, J. Weston*



Mechanism of the MeOH/H₂O Substitution in a Series of Biomimetic Bimetallo Zinc-Based H₃O₂ Complexes

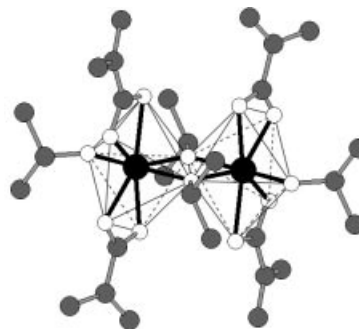
Keywords: Density functional calculations / Enzyme models / Metalloenzymes / H₃O₂ bridges / Zinc



**802 E. Martinez-Ferrero, K. Boubekeur,
F. Ribot***

Carboxylate-Containing Tin(IV) Isopropoxides:
Synthesis and Characterization of $[\text{Sn}(\text{O}i\text{Pr})_2(\text{O}_2\text{CR})_2]_2$ [$\text{R} = (\text{CH}_3)\text{CCH}_2, \text{C}_6\text{H}_5, \text{CH}_3$]

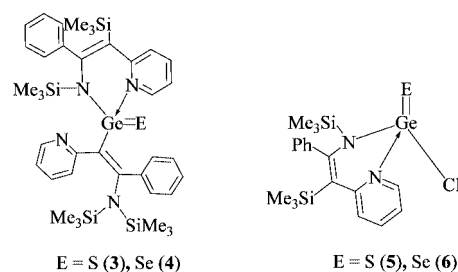
Keywords: Carboxylate ligands / Organic–inorganic
hybrid composites / NMR spectroscopy /
Solgel processes / Tin



**808 W.-P. Leung,* K.-H. Chong, Y.-S. Wu,
C.-W. So, H.-S. Chan, T. C. W. Mak**

Synthesis of Chalcogeno[3-(pyrid-2-yl)-1-aza-
allyl]germanium Complexes

Keywords: Chalcogens / Germanium / N ligands

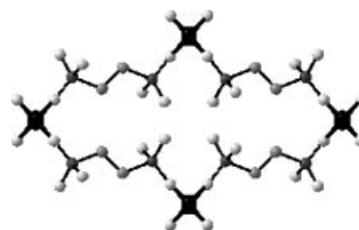


813 K. P. Rao, K. Vidyasagar*



Synthesis and X-ray Crystal Structures of the
New, Three-Dimensional Ethylenediphosphon-
ates $[\text{A}\{\text{HO}_3\text{P}(\text{CH}_2)_2\text{PO}_3\text{H}_2\}]$ ($\text{A} = \text{Alkali Metal}, \text{Ti}, \text{or } \text{NH}_4$): Solid Brønsted Acids That Ex-
hibit Topotactic Intercalation and Deintercala-
tion of Ammonia

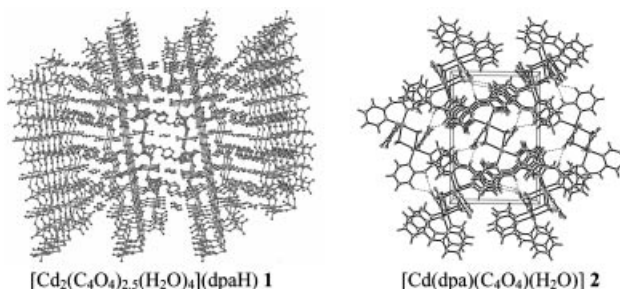
Keywords: Intercalation / Organic–inorganic hybrid
composites / Phosphonates / X-ray diffrac-
tion



820 C.-C. Wang,* C.-H. Yang, G.-H. Lee

Hydrothermal Synthesis and Structural Charac-
terization of Two pH-Controlled Cd–Squarate
Coordination Frameworks, $[\text{Cd}_2(\text{C}_4\text{O}_4)_{2.5}(\text{H}_2\text{O})_4] \cdot (\text{dpaH}) \cdot 1.5(\text{H}_2\text{O})$ and $[\text{Cd}(\text{C}_4\text{O}_4)(\text{dpa})-(\text{OH}_2)]$ ($\text{dpa} = 2,2'$ -dipyridylamine)

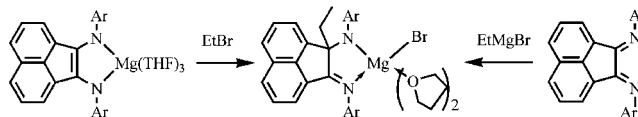
Keywords: Hydrothermal synthesis / Self-assembly /
Hydrogen bonds / Squarate / Cadmium



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I. L. Fedushkin,* V. M. Makarov,
E. C. E. Rosenthal, G. K. Fukin

Single-Electron-Transfer Reactions of α -Diimine
dpp-BIAN and Its Magnesium Complex (dpp-
BIAN)²⁻Mg²⁺(THF)₃

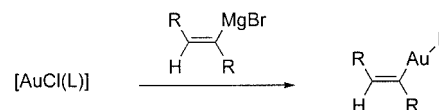


Keywords: Magnesium / N-ligands / Single-electron transfer

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F. Mohr, L. R. Falvello, M. Laguna*

Synthesis, Structural Characterisation and
Reactions of Some Vinylgold(I) Phosphane
Complexes



R = H, Me; L = PPh₃, PPh₂Me, PPhMe₂

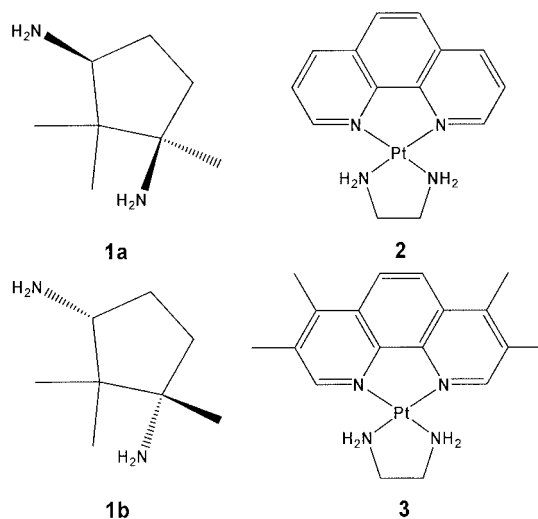
Keywords: Gold / Vinyl ligands / Phosphane ligands

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D. Jaramillo, D. P. Buck, J. G. Collins,
R. R. Fenton, F. H. Stootman, N. J. Wheate,
J. R. Aldrich-Wright*



Synthesis, Characterisation and Biological
Activity of Chiral Platinum(II) Complexes

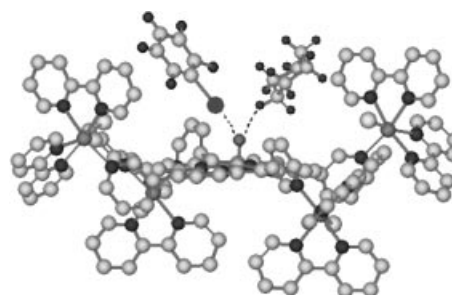


Keywords: Platinum / Chiral / Intercalator / Cancer /
L1210 / Induced circular dichroism

850

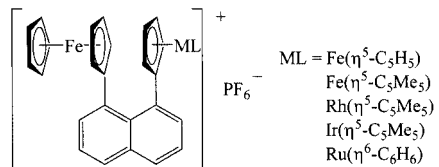
I. Mayer, G. S. Nunes, H. E. Toma,
K. Araki*

Steric and Catalytic Effects in Tetraruthenated
Manganese Porphyrins



Keywords: Electrochemistry / Manganese / Porphyrin-
oids / Sensors / Supramolecular chemistry

Polar Cofacially Fixed Sandwich Complexes: Do They Demonstrate Second Harmonic Generation (SHG)?



Keywords: Heterometallic complexes / Sandwich complexes / Donor–acceptor systems / Nonlinear optics / Through-space interaction



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