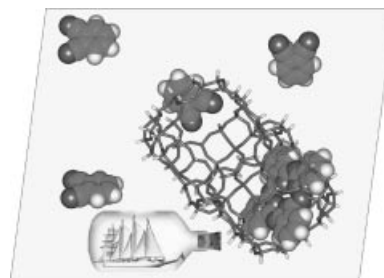


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COVER PICTURE

The cover picture shows the results of modelling the diffusion of phthalodinitrile through the zeolite pores. Once inside, phthalodinitrile reacts to form a large phthalocyanine guest that remains entrapped inside the zeolite cavity. The resulting zeolite–guest chemistry resembles at molecular level a ship in a bottle that is a typical souvenir in many harbour cities. The zeolite-encapsulated guest shows many promising applications as discussed in the Microreview by A. Corma and H. Garcia on p. 1143 ff.



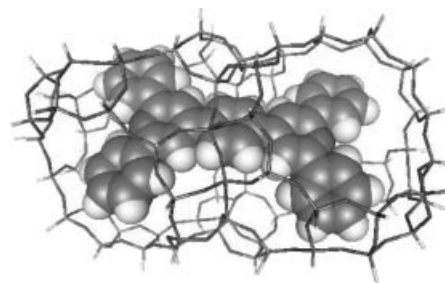
MICROREVIEW

Contents

1143 A. Corma,* H. Garcia*

Supramolecular Host-Guest Systems in Zeolites
 Prepared by Ship-in-a-Bottle Synthesis

Keywords: Host-guest systems / Phthalocyanines /
 Ship-in-a-bottle synthesis / Supramolecular
 chemistry / Zeolites / Zeozymes



SHORT COMMUNICATIONS

1165 J. Wang, Q. Chen,* B. Hou, Z. Peng

Synthesis and Magnetic Properties of Single-Crystals of MnFe_2O_4 Nanorods

Keywords: Iron / Magnetic properties / Nanorods / Nanowires / X-ray diffraction



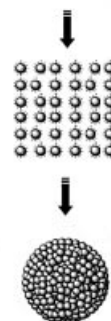
1169 Y. Hou, S. Gao,* T. Ohta, H. Kondoh



Towards 3-D Spherical Self-Assembly by Ternary Surfactant Combinations: The Case of Magnetite Nanoparticles

Keywords: Self-assembly / Magnetic properties / Magnetite / Nanoparticles / Super para-magnet

$\text{Fe}(\text{acac})_3 + \text{N}_2\text{H}_4 \cdot \text{H}_2\text{O} +$
surfactants+solvents

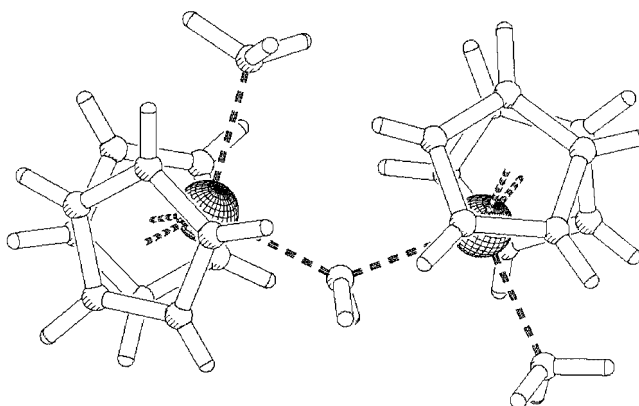


FULL PAPERS

1175 M. Hogenbirk, G. Schat, O. S. Akkerman, F. Bickelhaupt,* J. Schottek, M. Albrecht, R. Fröhlich, G. Kehr, G. Erker,* H. Kooijman, A. L. Spek

(μ -Methylene)bis(methylzirconocene): Preparation, Molecular Structure, and Thermal Disproportionation

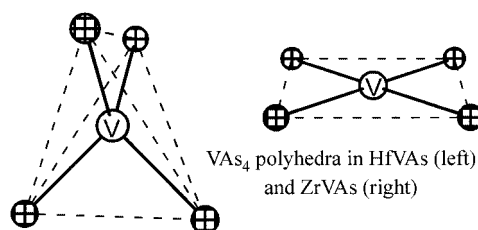
Keywords: Magnesium / Metallocenes / Zirconium / Configuration at carbon



1183 S. Derakhshan, E. Dashjav, H. Kleinke*

The Predicted Structures of the New Pnictides HfMQ in Contrast to ZrMQ ($\text{M} = \text{Ti}, \text{V}; \text{Q} = \text{P}, \text{As}$)

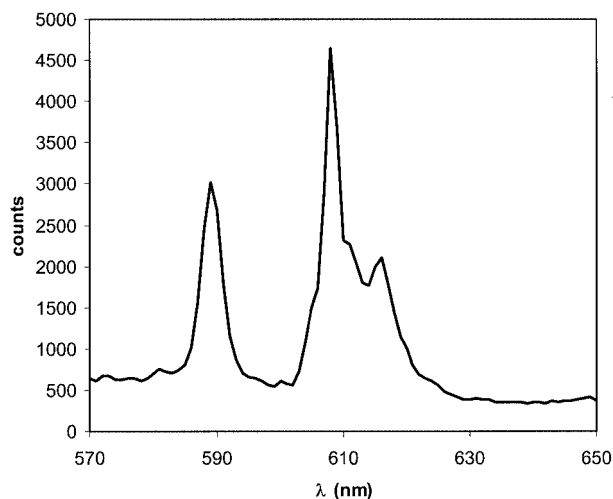
Keywords: Structure map / X-ray diffraction / Electronic structure / Phosphides / Arsenides



- 1190** I. Billard,* S. Mekki, C. Gaillard,
P. Hesemann, G. Moutiers, C. Mariet,
A. Labet, J.-C. G. Bünzli

Eu^{III} Luminescence in a Hygroscopic Ionic Liquid: Effect of Water and Evidence for a Complexation Process

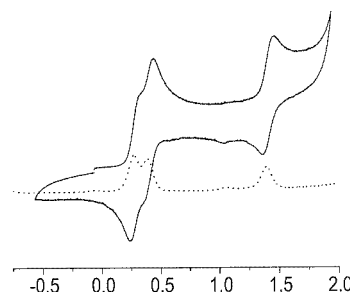
Keywords: Ionic liquids / Lanthanides / Europium / Luminescence / Complexation



- 1198** T. Sheng, H. Vahrenkamp*

Long Range Metal-Metal Interactions Along Fe–NC–Ru–CN–Fe Chains

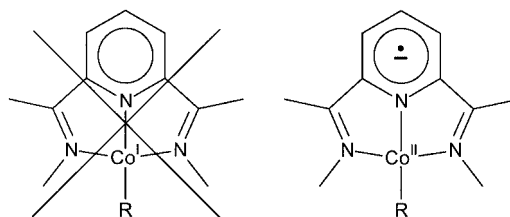
Keywords: Chain structures / Cyanide complexes / Polynuclear complexes / Metal–metal interactions



- 1204** Q. Knijnenburg, D. Hetterscheid,
T. M. Kooistra, P. H. M. Budzelaar*

The Electronic Structure of (Diiminopyridine)cobalt(I) Complexes

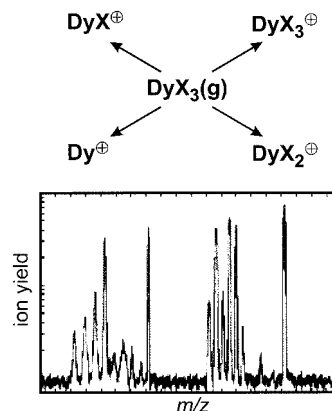
Keywords: Charge transfer / Cobalt / Density functional calculations / NMR spectroscopy / Radicals



- 1212** J. Saloni, S. Roszak,* K. Hilpert, M. Miller,
J. Leszczynski

Quantum Chemical Studies of Neutral and Ionized DyX, DyX₂, and DyX₃ Species (X = F, Cl, Br, I) and the Implications for the Mass Spectra of Gaseous DyX₃

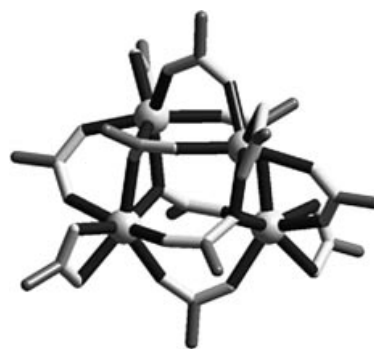
Keywords: Halides / Lanthanides / Mass spectrometry / Quantum chemical calculations / Thermochemistry



- 1219** U. Baisch, D. Belli Dell'Amico,*
F. Calderazzo, L. Labella, F. Marchetti,
A. Merigo

N,N-Dialkylcarbamato Lanthanide Complexes,
a Series of Isotypical Coordination Compounds

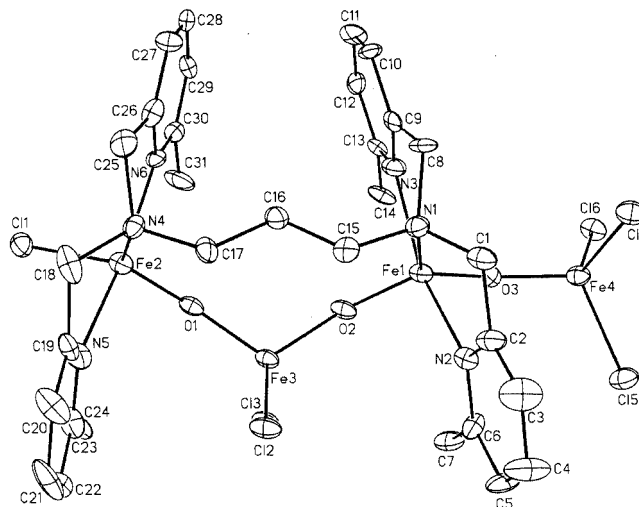
Keywords: Coordination modes / Lanthanides /
Lanthanide contraction



- 1225** V. Baland, E. Anxolabéhère-Mallart,*
F. Banse,* E. Rivière, S. Bourcier,
M. Nierlich, J.-J. Girerd*

Synthesis, Structure and Characterizations in
Solid State and Solution of Dinuclear Pentaco-
ordinated Fe^{II} and Mn^{II} Complexes and of a
Linear Tetranuclear Fe^{III} Complex Obtained
with the Ligand *N,N,N',N'*-Tetrakis[(6-methyl-2-
pyridyl)methyl]propane-1,3-diamine

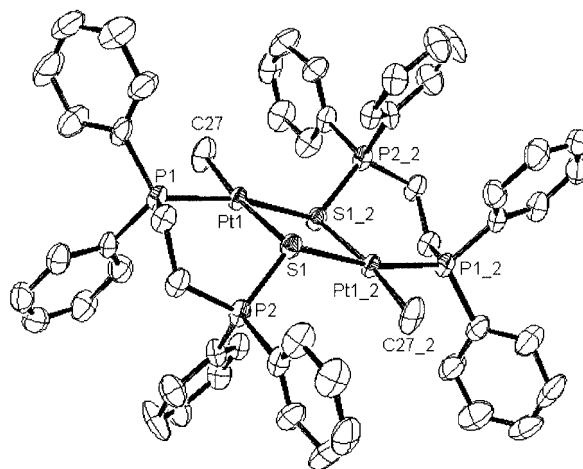
Keywords: N ligands / Iron / Manganese / Tetranuclear
complexes / Bioinorganic chemistry



- 1234** P. Mastrolilli, C. F. Nobile,* G. P. Suranna,
F. P. Fanizzi, G. Ciccarella, U. Englert, Q. Li

Synthesis and Carbonylation of Platinum(II)
Organometallic Complexes with Bis(phosphanyl)
Monosulfides – Crystal Structures of [κ^2P,S -
{Ph₂CH₂P(S)Ph₂}Pt(CH₃)(Cl)] and [$\kappa P,\mu-\kappa S$ -
{Ph₂CH₂CH₂P(S)Ph₂}Pt-(CH₃)₂][BF₄]₂

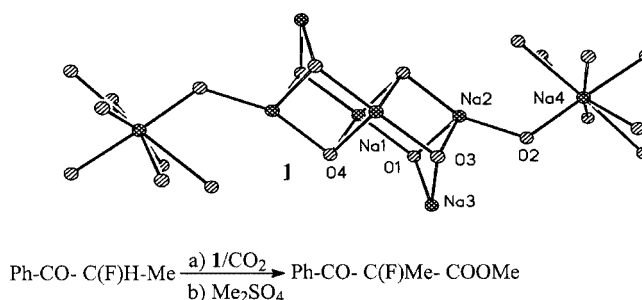
Keywords: Platinum / P,S ligands / Carbonyl ligands /
Bridging ligands / Mass spectrometry



- 1243** R. Fischer, H. Görls, D. Walther*

Polymetallated 4-*tert*-Butylcalix[4]arene Com-
plexes of Sodium and Potassium Stabilized by
Crown Ethers: Syntheses, Structures and Acti-
vation of Carbon Dioxide

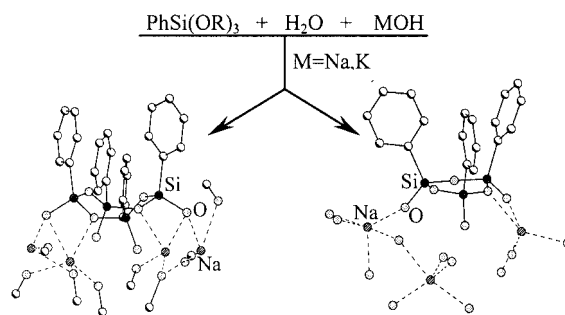
Keywords: Alkali metals / Calixarenes / Carbon
dioxide fixation / Carboxylation / Crown
compounds



- 1253** Y. A. Pozdniakova, K. A. Lyssenko,
A. A. Korlyukov, I. V. Blagodatskikh,
N. Auner, D. Katsoulis, O. I. Shchegolikhina*

Alkali-Metal-Directed Hydrolytic Condensation of Trifunctional Phenylalkoxysilanes

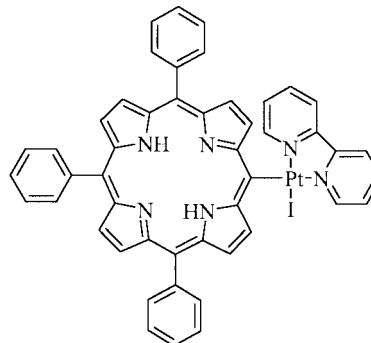
Keywords: Hydrolytic condensation / Potassium / Self-assembly / Silanes / Sodium / Template synthesis



- 1262** R. D. Hartnell, D. P. Arnold*

Peripherally Metallated Porphyrins: the First Examples of *meso*- η^1 -Palladio(II) and -Platinio(II) Complexes with Chelating Diamine Ligands

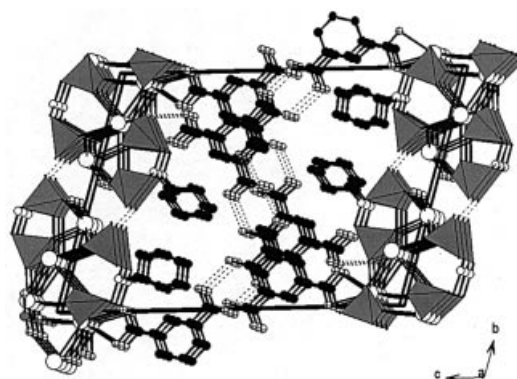
Keywords: N ligands / Palladium / Platinum / Porphyrins



- 1270** S.-M. Ying, J.-G. Mao*

Novel Layered Lead(II) Aminodiphosphonates with Carboxylate-Sulfonate and 1,3,5-Benzene-tricarboxylate Ligands as Pendant Groups or Intercalated Species

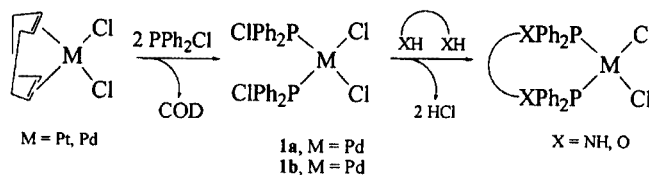
Keywords: Hydrothermal synthesis / Layered compounds / Carboxylates / Sulfonates



- 1277** P. Bergamini,* V. Bertolasi, F. Milani

The Construction of P–O/P–N Ligands on Platinum and Palladium

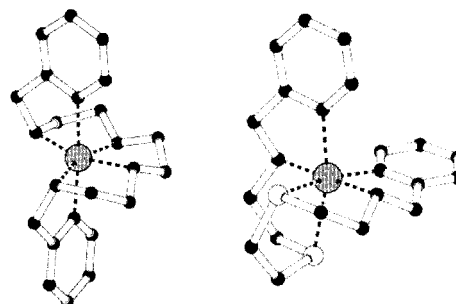
Keywords: Template synthesis / Ligand design / P ligands / Platinum / Palladium



- 1285** A. Mohamadou,* C. Jubert, N. Gruber,
J.-P. Barbier

Configuration of Octahedral Metal Compounds – Equilibrium, Crystal and Molecular Structure of Nickel(II) Complexes of Linear N_2O_4 , N_4S_2 or N_6 Donors Set Atoms Ligands

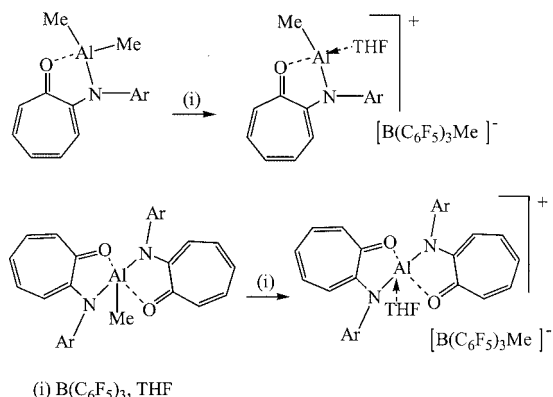
Keywords: Configuration determination / N₂O ligands / N,S ligands / Nickel / Potentiometry



1292 D. Pappalardo,* M. Mazzeo, P. Montefusco,
C. Tedesco, C. Pellecchia

Neutral and Cationic Methylaluminium Complexes of 2-Anilintropone Ligands: Synthesis, Characterization, and Reactivity toward Ethylene

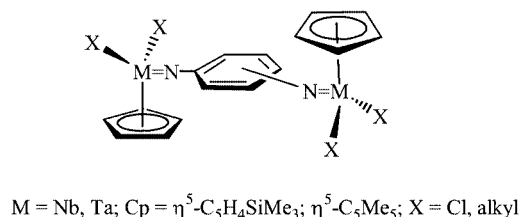
Keywords: Aluminium / N,O ligands / Alkenes / Cations / Polymerizations



1299 A. Antiñolo, I. Dorado, M. Fajardo,
A. Garcés, I. López-Solera,
C. López-Mardomingo, M. M. Kubicki,
A. Otero,* S. Prashar

Synthesis, Structural Characterisation and Reactivity of New Dinuclear Monocyclopentadienyl Imidoniobium and -tantalum Complexes – X-ray Crystal Structures of $[\{\text{Nb}(\eta^5\text{-C}_5\text{H}_4\text{SiMe}_3\text{Cl}_2)_2(\mu\text{-1,4-NC}_6\text{H}_4\text{N})\}]$, $[\{\text{Ta}(\eta^5\text{-C}_5\text{Me}_5\text{Cl}_2)_2(\mu\text{-1,4-NC}_6\text{H}_4\text{N})\}]$ and $[\{\text{Ta}(\eta^5\text{-C}_5\text{Me}_5)(\text{CH}_2\text{SiMe}_3)_2(\mu\text{-1,4-NC}_6\text{H}_4\text{N})\}]$

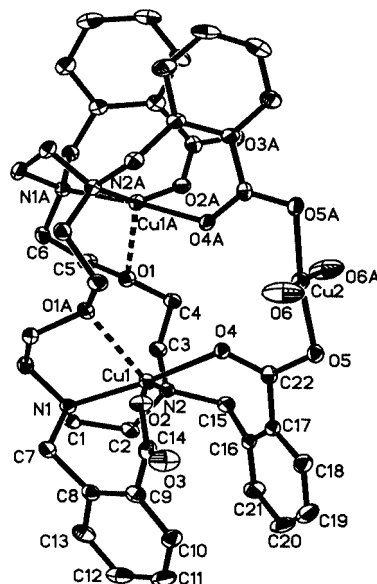
Keywords: Cyclopentadienyl ligands / Half-sandwich complexes / N ligands / Niobium / Tantalum



1311 S.-L. Ma, W.-X. Zhu,* S. Gao, Q.-L. Guo,
M.-Q. Xu

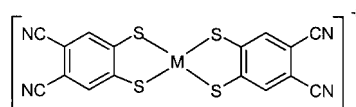
Synthesis, Structure and Magnetic Properties of a μ -Carboxylato-Bridged Ferromagnetic Trinuclear Copper(II) Complex with Lariat Tetraazacrown Ether as Ligand

Keywords: Copper / Macrocyclic ligands / X-ray diffraction / Magnetic properties



- 1318** H. Alves, D. Simão, I. Cordeiro Santos, V. Gama, R. Teives Henriques, H. Novais, M. Almeida*

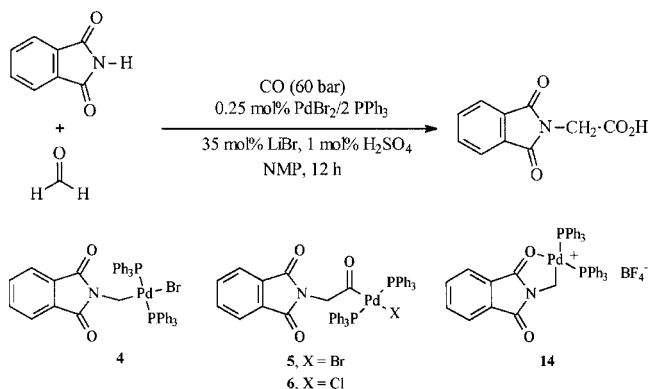
A Series of Transition Metal Bis(dicyanobenzenedithiolate) Complexes $[M(\text{dcbdt})_2]$ ($M = \text{Fe}, \text{Co}, \text{Ni}, \text{Pd}, \text{Pt}, \text{Cu}, \text{Au}$ and Zn)



Keywords: Coordination chemistry / EPR spectroscopy / Magnetic properties / S ligands / Transition metals

- 1330** A. Enzmann, M. Eckert, W. Ponikwar, K. Polborn, S. Schneiderbauer, M. Beller,* W. Beck*

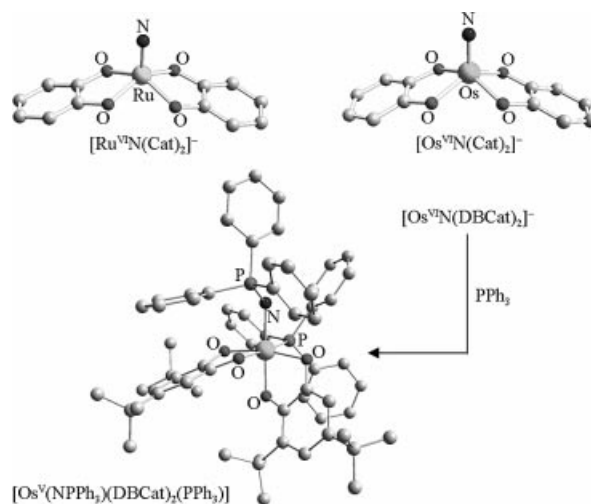
Aminomethyl and Aminoacetyl Complexes of Palladium(II), Platinum(II), Iron(II) and Rhenium(I) with *N*-Phthaloyl as Amino Protecting Group and Mechanistic Studies on the Palladium-Catalyzed Amidocarbonylation



Keywords: Amidocarbonylation / Iron / Palladium / Platinum / Rhenium

- 1341** G.-S. Fang, J.-S. Huang, N. Zhu, C.-M. Che*

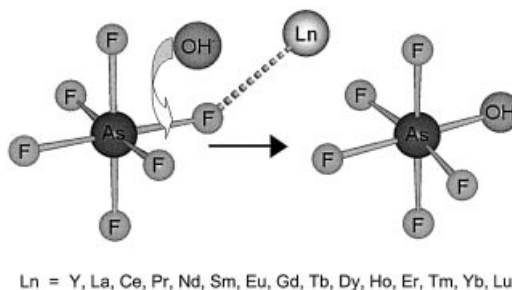
(Nitrido)ruthenium(VI) and -osmium(VI) Complexes with Catecholate Auxiliaries: Synthesis, Structure, and Conversion into a (Phosphoraniminato)osmium(V) Complex



Keywords: Nitrides / O ligands / Ruthenium / Osmium / Structure elucidation

- 1349** M. Ponikvar,* B. Sedej, J. F. Liebman

The Solid-State Lanthanoid-Assisted Hydrolysis of the Solvolytically “Inert” $[\text{AsF}_6]^-$ Ion



Keywords: Arsenic / Hydrolysis / $\text{LnF}_n(\text{AsF}_6)_{3-n}$ compounds / Rare-earth elements / Solid-state reactions