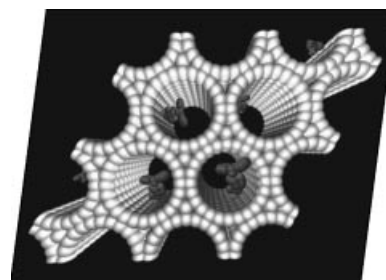


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COVER PICTURE

The cover picture shows a chiral catalyst heterogenized into confined nanospaces of porous materials. The site-isolation of catalytic sites easily prevents the formation of inactive multinuclear species, consequently increasing the stability and turnover numbers of catalysts. In addition to this enhanced stability, increased enantioselectivity was also found upon immobilization in the confined spaces, due to the confinement effect originating from the interaction of catalyst/substrate with pore surfaces. Details of this chemistry are described in the Microreview by C. E. Song et al. on p. 2927 ff.



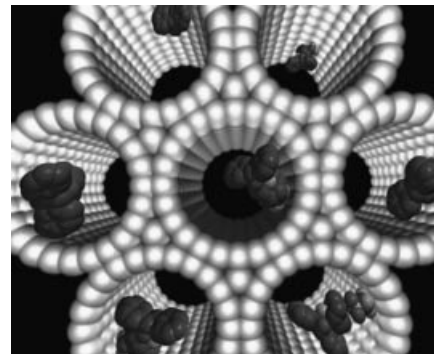
MICROREVIEW

Contents

2927 C. E. Song,* D. H. Kim, D. S. Choi

Chiral Organometallic Catalysts in Confined
 Nanospaces: Significantly Enhanced Enantio-
 selectivity and Stability

Keywords: Asymmetric catalysis / Supported cata-
 lysts / Mesoporous materials / Zeolite
 analogs / Nanostructures



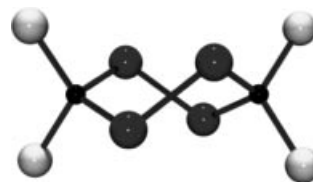
SHORT COMMUNICATIONS

- 2937 T. M. Klapötke, B. Krumm,* K. Polborn, M. Scherr



Formation of Unexpected Selenium-Rich Compounds by Selenation of the Very Bulky (PhMe₂-Si)₃CLi: *s*-Tetraselenane, a Novel Polyseleno Heterocycle

Keywords: Bulky substituents / DFT calculations / Selenium / Structure elucidation

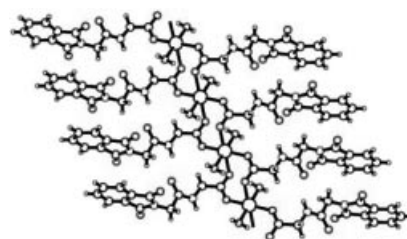


- 2942 N. Barooah, R. J. Sarma, J. B. Baruah*



Metal Directed Assemblies of a Dipeptide: Formation of β -Pleated Sheets

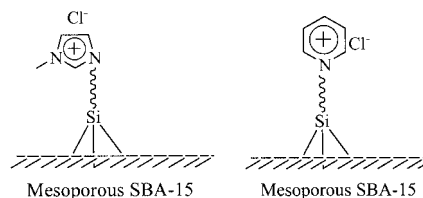
Keywords: Hydrogen bonding / Self-assembly / Dipeptide / β -Sheets / Coordination polymer



- 2947 Y. Liu, J. Peng, S. Zhai, J. Li, J. Mao, M. Li, H. Qiu, G. Lai*

Synthesis of Ionic Liquid Functionalized SBA-15 Mesoporous Materials as Heterogeneous Catalyst toward Knoevenagel Condensation under Solvent-Free Conditions

Keywords: Mesoporous materials / Heterogeneous catalysis / Ionic liquids



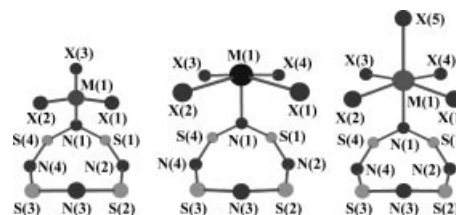
FULL PAPERS

- 2951 J. Konu, T. Bajorek, R. S. Laitinen,* T. Chivers, R. J. Suontamo, M. Ahlgren



Bonding Trends in Lewis Acid Adducts of S₄N₄ – X-ray Structure of TeCl₄·S₄N₄

Keywords: Lewis acid adducts of S₄N₄ / Tellurium tetrachloride / DFT calculations / Vibrational spectroscopy / X-ray crystallography

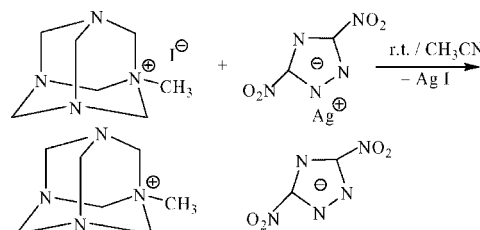


- 2959 H. Xue, H. Gao, B. Twamley, J. M. Shreeve*



Energetic Nitrate, Perchlorate, Azide and Azolate Salts of Hexamethylenetetramine

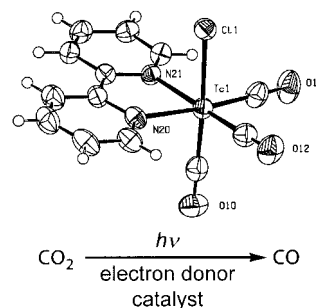
Keywords: Hexamethylenetetrammonium salts / Energetic materials / Quaternization / Heats of formation



2966 P. Kurz, B. Probst, B. Spingler, R. Alberto*

Ligand Variations in $[\text{ReX}(\text{diimine})(\text{CO})_3]$ Complexes: Effects on Photocatalytic CO_2 Reduction

Keywords: Photocatalysis / CO_2 reduction / Rhenium / Technetium / Diimine ligands

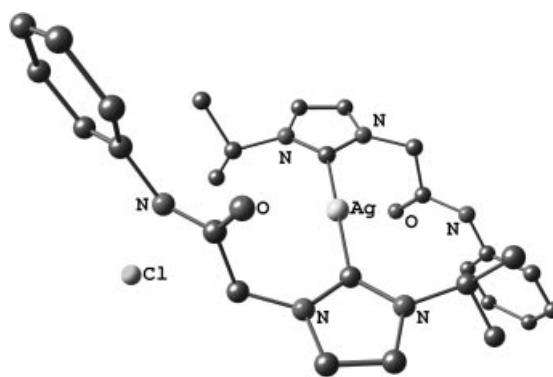


2975 M. K. Samantaray, V. Katiyar, D. Roy, K. Pang, H. Nanavati, R. Stephen, R. B. Sunoj,* P. Ghosh*



A Cationic (N-Heterocyclic carbene)silver Complex as Catalyst for Bulk Ring-Opening Polymerization of L-Lactides

Keywords: Carbenes / DFT studies / Functionalized NHC / Ring-opening polymerization (ROP) / Organometallic catalysis / Silver

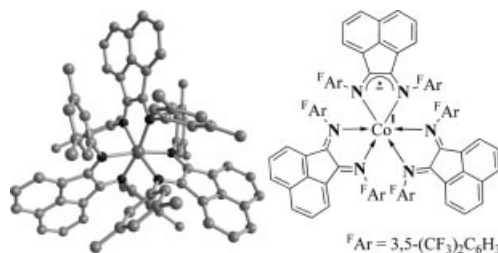


2985 M. M. Khusniyarov, K. Harms, O. Burghaus, J. Sundermeyer*



Molecular and Electronic Structures of Homoleptic Nickel and Cobalt Complexes with Non-Innocent Bulky Diimine Ligands Derived from Fluorinated 1,4-Diaza-1,3-butadiene (DAD) and Bis(arylimino)acenaphthene (BIAN)

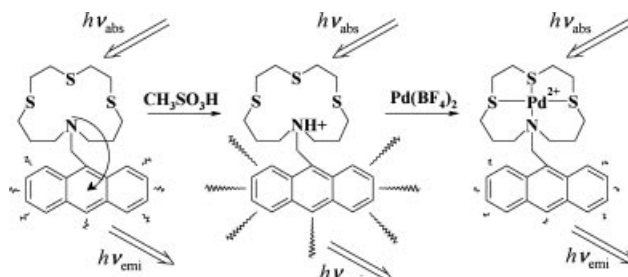
Keywords: EPR spectroscopy / Magnetochemistry / Non-innocent ligands / Nickel / Cobalt / X-ray diffraction



2997 A. Tamayo, L. Escriche,* J. Casabó, B. Covelo, C. Lodeiro*

Synthesis, Complexation and Spectrofluorometric Studies of a New NS_3 Anthracene-Containing Macrocyclic Ligand

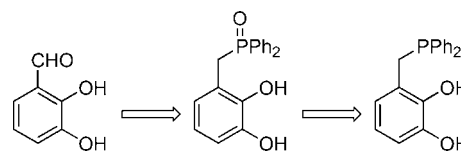
Keywords: PET Systems / N,S ligands / Macrocycles / Fluorescence / Palladium



3005 S. Chikkali, D. Gudat*

Hydrophosphanation of Phenolic Aldehydes as Facile Synthetic Approach to Catechol-Functionalized Phosphane Oxides and Phosphanes

Keywords: Phosphanes / Phosphane oxides / P,O ligands / Hydrophosphanation / Rearrangement

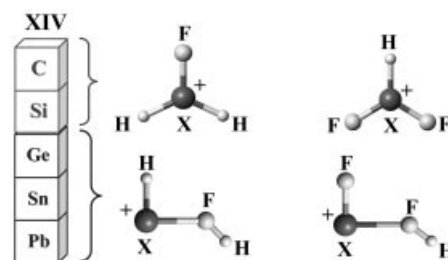


3010 P. Antoniotti, S. Borocci, N. Bronzolino, M. Giordani, F. Grandinetti*



Fluoromethyl Cations and Group XIV Congeners $\text{AH}_n\text{F}_{3-n}^+$ ($\text{A} = \text{Si}, \text{Ge}, \text{Sn}, \text{Pb}; n = 0-2$): From Covalent Structures to Ion-Molecule Complexes

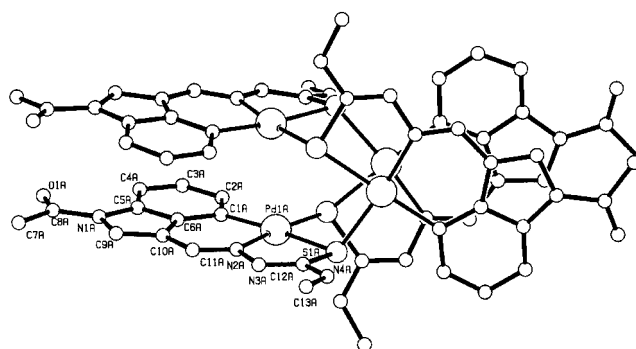
Keywords: Ab initio calculations / Fluorinated cations / Group XIV elements / Ion-molecule complexes / Structure and stability



3016 A. Amoedo, L. A. Adrio, J. M. Antelo, J. Martínez, M. T. Pereira, A. Fernández, J. M. Vila*

Synthesis, Characterization, and Crystal Structure Analysis of the First Terdentate [C,N,S] Thiosemicarbazone Complex with a Six-Membered Palladacycle: Influence of Steric Effects on Ring Size

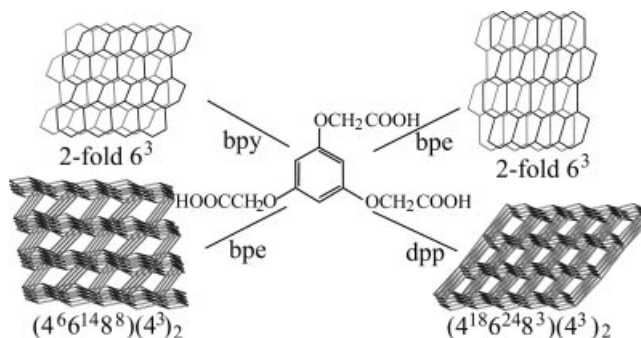
Keywords: Thiosemicarbazones / Cyclometallation / Palladium / Indole / Crystal structure



3041 S. Wang, H. Xing, Y. Li, J. Bai,* Y. Pan, M. Scheer,* X. You

2D and 3D Cadmium(II) Coordination Polymers from a Flexible Tripodal Ligand of 1,3,5-Tris(carboxymethoxy)benzene and Bidentate Pyridyl-Containing Ligands with Three-, Eight- and Ten-Connected Topologies

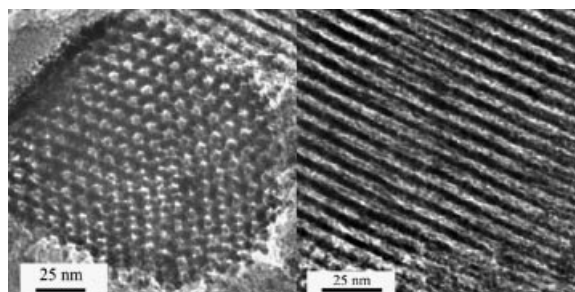
Keywords: Metal-organic frameworks / Tripodal ligands / Topology / Metal carboxylates



3054 C. Shi, R. Wang,* G. Zhu, S. Qiu,* J. Long

In Situ Synthesis, Characterization of SiPMo-X, and Different Catalytic Properties of SiPMo-X and SiPW-X

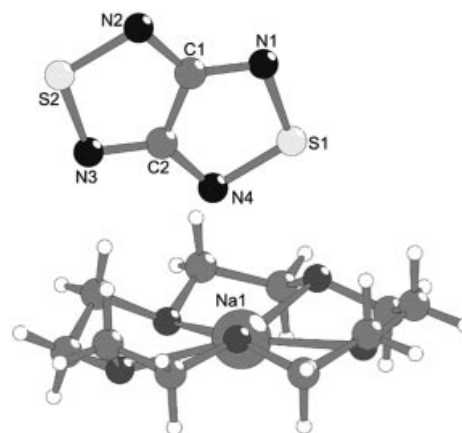
Keywords: In situ synthesis / Heteropolyacids / Mesoporous materials / Encapsulation / Bulky molecule reactions / Zeolites



3061 V. N. Ikorskii, I. G. Irtegov, E. Lork, A. Y. Makarov, R. Mews,* V. I. Ovcharenko,* A. V. Zibarev*

Early Alkali Metal (Li, Na, K) and Tris(dimethylamino)sulfonium (TAS) Salts of [1,2,5]Thiadiazolo[3,4-*c*][1,2,5]thiadiazolidyl Radical Anion: Rational Syntheses, Structures and Magnetic Properties

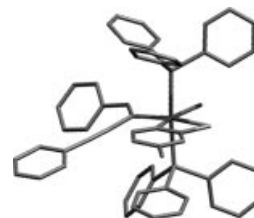
Keywords: Magnetic properties / Nitrogen heterocycles / Radical anions / Sulfur heterocycles



3068 J. D. E. T. Wilton-Ely,* M. Wang, D. M. Benoit, D. A. Tocher

Spectroscopic, Structural and Theoretical Investigation of Alkenyl Ruthenium Complexes Supported by Sulfur–Nitrogen Mixed-Donor Ligands

Keywords: Mixed-donor ligands / Ruthenium / Alkenyl / Thiolate / Ab initio / Density functional theory

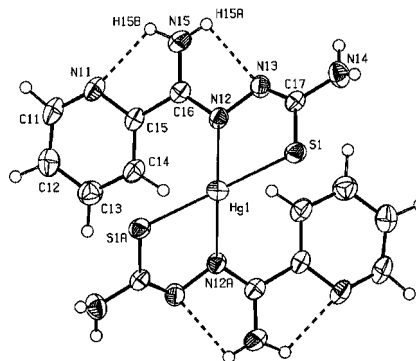


3079

U. Abram, A. Castiñeiras,*
I. García-Santos, R. Rodríguez-Riobó

Symmetrisation in the Interaction of Chloro-[2-(dimethylaminomethyl)phenyl-C¹]mercury(II) with Thiosemicarbazone Derivatives of Pyridine-2-carboxamide and Pyrazin-2-carboxamide

Keywords: Mercury complexes / Symmetrisation / Thiosemicarbazones / Crystal structures / Weak hydrogen bonds / C–H···π interactions

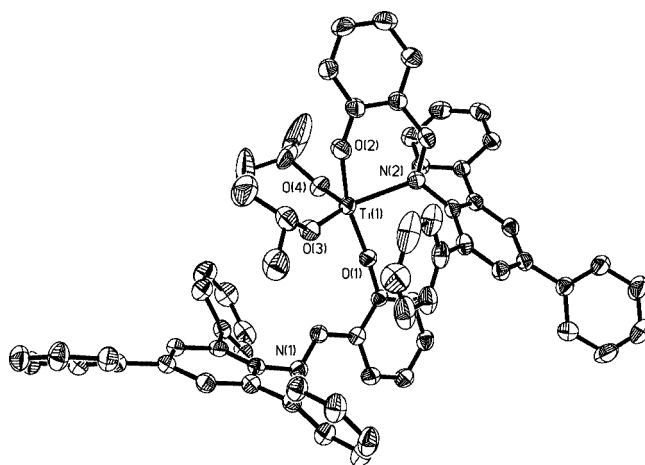


3088

A. L. Johnson,* M. G. Davidson,*
M. D. Lunn, M. F. Mahon

Synthesis, Isolation and Structural Investigation of Schiff-Base Alkoxytitanium Complexes: Steric Limitations of Ligand Coordination

Keywords: Titanium / Alkoxide / Steric effects / Schiff-base ligands / Coordination

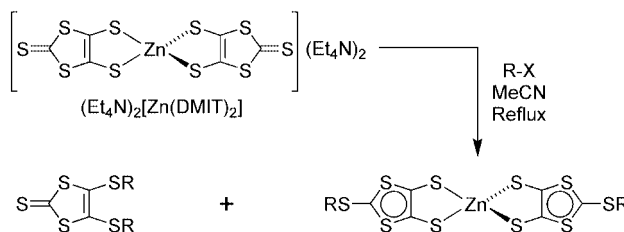


3099

B. M. Petersen, J. K. Bjernemose,
J. O. Jeppesen*

Characterization of a Byproduct in the Alkylation of DMIT: Alkylation on the Least Nucleophilic Sulfur Atom

Keywords: Alkylation / DMIT / Nucleophilic substitution / Sulfur heterocycles

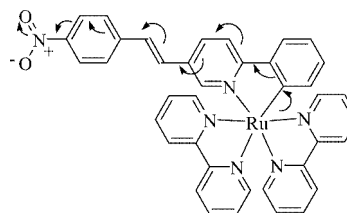


3105

L. Labat, J.-F. Lamère, I. Sasaki,
P. G. Lacroix,* L. Vendier, I. Asselberghs,
J. Pérez-Moreno, K. Clays

Synthesis, Crystal Structure, and Second-Order Nonlinear Optical Properties of Ruthenium(II) Complexes with Substituted Bipyridine and Phenylpyridine Ligands

Keywords: Ligand design / Donor–acceptor systems / Ruthenium / Nonlinear optics / Density functional calculations



CORRECTION

3115 E. Annoni, M. Pizzotti,* R. Ugo, S. Quici,
T. Morotti, M. Bruschi, P. Mussini

Synthesis, Electronic Characterisation and Significant Second-Order Non-Linear Optical Responses of *meso*-Tetraphenylporphyrins and Their Zn^{II} Complexes Carrying a Push or Pull Group in the β Pyrrolic Position

Keywords: Cyclic voltammetry / Nonlinear optics / Porphyrins / UV/Vis spectroscopy / Zinc

