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COVER PICTURE

The cover picture shows the Alhambra in Granada, the home town of the Spanish author of this paper. The Moors in their desert dreamt of palaces abundant with water, and that is why they built the Alhambra. Likewise, the water-soluble encapsulating pyrazolylborate ligand, shown as an (aqua)zinc complex set in one of Alhambra's gardens, is the realization of a long-standing dream of the Freiburg group, whose biomimetic zinc complex chemistry was previously confined by the hydrophobicity of the model complexes, typically the zinc hydroxide complex shown in the background. The abundance of red (carbonyl oxygen) and green (amide nitrogen) atoms in the foreground complex visualizes its hydrophilicity due to the carboxamide substituents on the tripod ligand. Details are discussed in the article by H. Vahrenkamp et al. on p. 3869 ff.



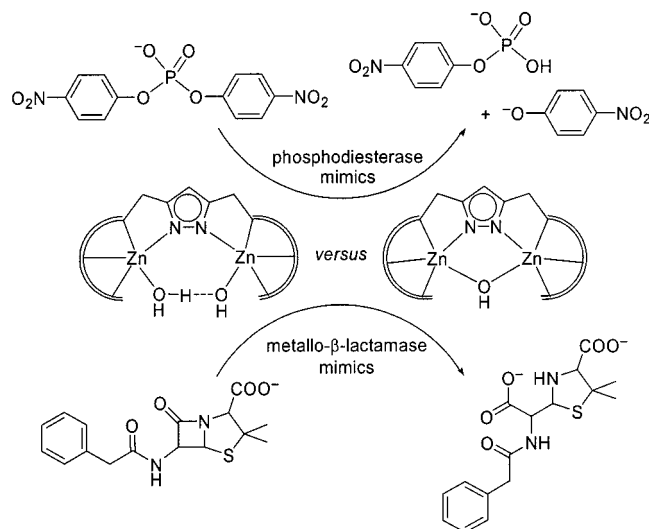
MICROREVIEW

Contents

3789 F. Meyer*

Clues to Dimetallohydrolase Mechanisms from
 Studies on Pyrazolate-Based Bioinspired Dizinc
 Complexes – Experimental Evidence for a
 Functional Zn–O₂H₃–Zn Motif

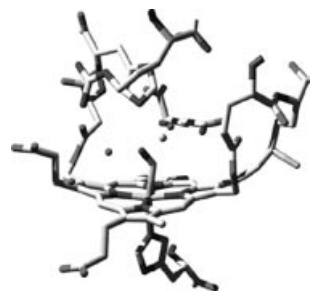
Keywords: Bioinorganic chemistry / Hydrolases /
 Metalloenzymes / Enzyme models / Zinc



- 3801** J. Arnhold, E. Monzani, P. G. Furtmüller,
M. Zederbauer, L. Casella, C. Obinger*

Kinetics and Thermodynamics of Halide and Nitrite Oxidation by Mammalian Heme Peroxidases

Keywords: Bioinorganic chemistry / Peroxidases / Halides / Nitrites / Thermodynamics / Kinetics

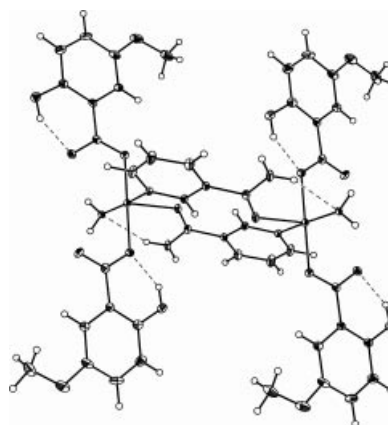


SHORT COMMUNICATIONS

- 3813** D. Valigura,* J. Moncol, M. Korabik,
Z. Púčeková, T. Lis, J. Mroziński,
M. Melník

New Dimeric Copper(II) Complex $[\text{Cu}(\text{5-MeOsAl})_2(\mu\text{-nia})(\text{H}_2\text{O})]_2$ with Magnetic Exchange Interactions through H-Bonds

Keywords: Copper / Carboxylate ligands / Nicotinamide / Dimer / Structure / Magnetic properties

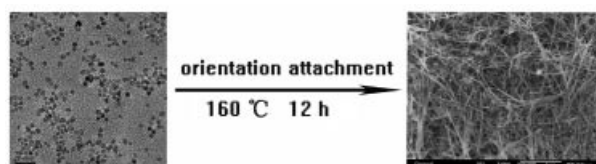


- 3818** M. Yang, G. Pang,* J. Li, L. Jiang, S. Feng*



Preparation of ZnO Nanowires in a Neutral Aqueous System: Concentration Effect on the Orientation Attachment Process

Keywords: Zinc oxide / Orientation attachment / Self-assembly / Nanostructures

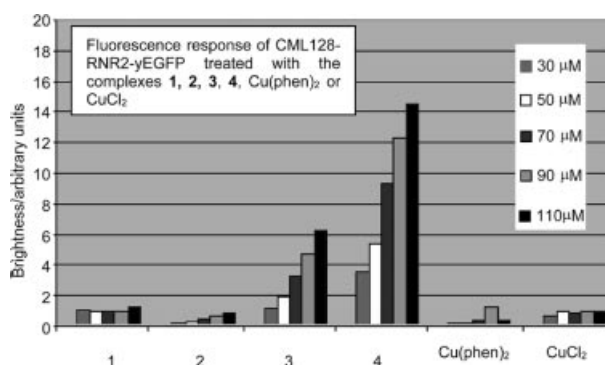


FULL PAPERS

- 3823** M. González-Álvarez, G. Alzuet,
L. del Castillo, J. Borrás,* M. Liu-González

Genotoxic Potential of *N*-(Benzothiazolyl)-sulfonamide Copper(II) Complexes on Yeast Cells Transformed with YEGFP Expression Constructs Containing the RAD54 or RNR2 Promoter

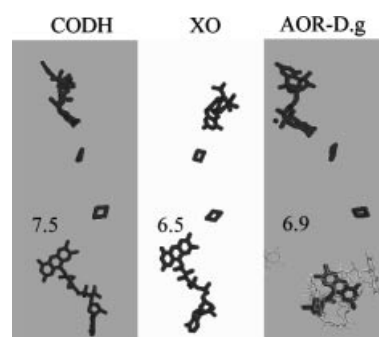
Keywords: Copper complexes / DNA damage / Genotoxicity / yEGFP expression



3835 L. Krippahl, P. N. Palma, I. Moura,
J. J. G. Moura*

Modelling the Electron-Transfer Complex Between Aldehyde Oxidoreductase and Flavodoxin

Keywords: Bioinorganic chemistry / Electron transfer / Molybdenum / Enzyme models

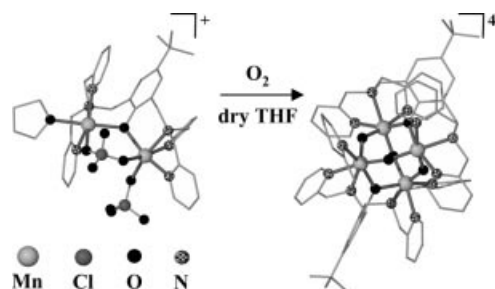


3841 F. B. Larsen, A. Boisen, K. J. Berry,
B. Moubaraki, K. S. Murray, V. McKee,
R. C. Scarrow, C. J. McKenzie*



Identification of the Dinuclear and Tetranuclear Air-Oxidized Products Derived from Labile Phenolate-Bridged Dimanganese(II) Pyridyl Chelate Compounds

Keywords: Manganese / O ligands / Chelates / Bond valence sum analysis / Oxidation

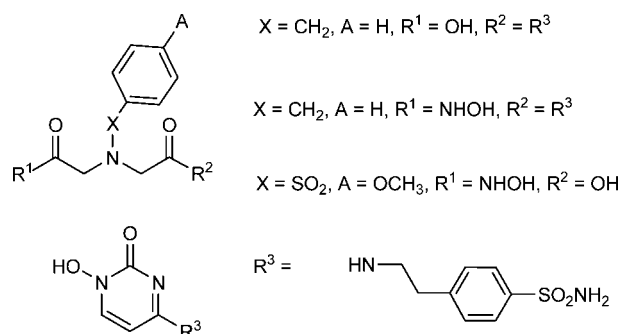


3853 S. Chaves, S. M. Marques, A. Cachudo,
M. A. Esteves, M. A. Santos*



Zinc(II) Complexation Behaviour of Sulfonamide-Based Enzyme Inhibitors

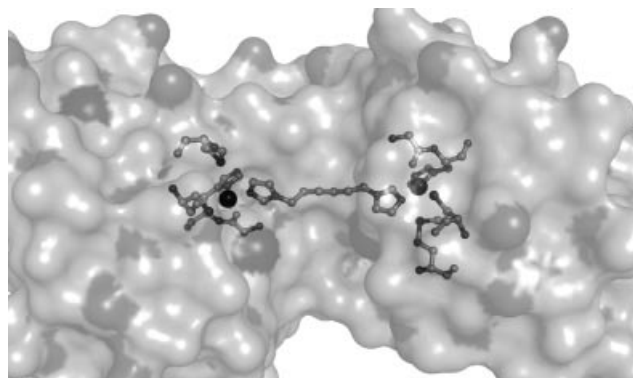
Keywords: MMP inhibitors / Carbonic-anhydrase inhibitors / Hydroxamate / Hydroxypyrimidinone / Sulfonamido-based inhibitors / Sulfonamides



3861 T. E. de Jongh, A.-M. M. van Roon,
M. Prudêncio, M. Ubbink, G. W. Canters*

Click Chemistry with an Active Site Variant of Azurin

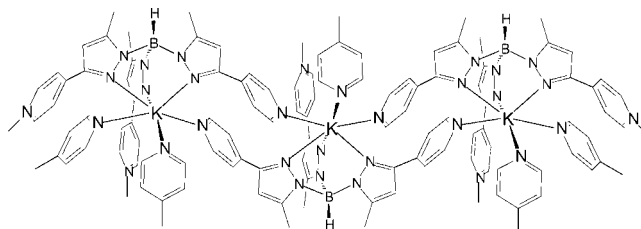
Keywords: Metalloproteins / Protein structures / Zinc / Copper / Metal replacement



3869 C. Perez Olmo, K. Böhmerle, G. Steinfeld,
H. Vahrenkamp*

New Polar Pyrazolylborate Ligands and Their Basic Zinc Complex Chemistry

Keywords: Tripod ligands / Pyrazolylborate ligands / Zinc complexes / Structure elucidation / Coordination modes



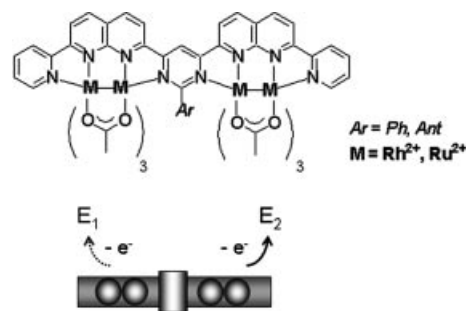
3878

A. Petitjean, F. Puntoriero, S. Campagna,*
A. Juris, J.-M. Lehn*



Multicomponent Supramolecular Devices: Synthesis, Optical, and Electronic Properties of Bridged Bis-dirhodium and -diruthenium Complexes

Keywords: N ligands / Electronic coupling / Electrochemistry / Metal-metal interactions / Optical properties

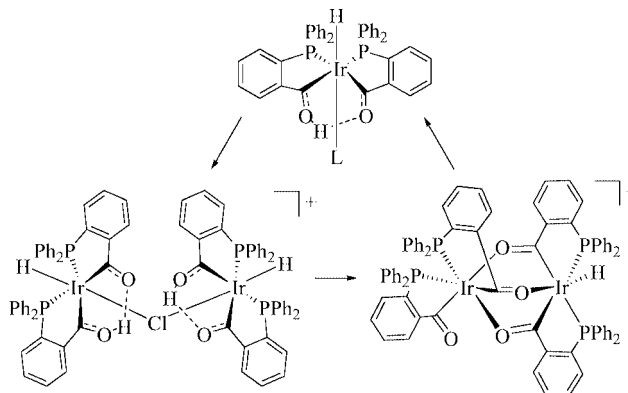


3893

F. Acha, M. A. Garralda,* R. Hernández,
L. Ibarlucea, E. Pinilla, M. R. Torres,
M. Zarandona

Synthesis and Reactivity of New Mono- and Dinuclear Hydrido-irida- β -diketones – The Formation and Characterization of a Dinuclear Tris- μ -acyliridium(III) Complex

Keywords: Iridium / Hydride ligands / Bridging ligands / P ligands

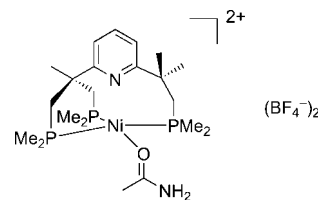


3901

S. W. Kohl, F. W. Heinemann, M. Hummert,
H. Weißhöff, A. Grohmann*

Tetra- and Triphosphane Pyridine Podands and Their Cobalt(II) and Nickel(II) Complexes

Keywords: Cobalt / Nickel / N,P ligands



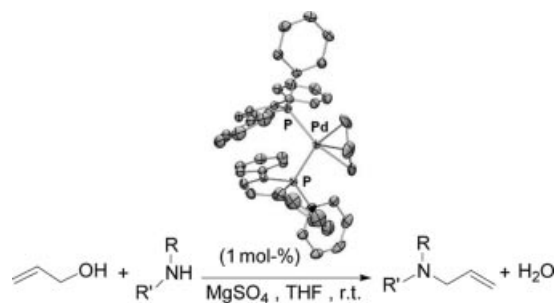
3911

C. Thoumazet, H. Grützmacher,
B. Deschamps, L. Ricard, P. le Floch*



Testing Phosphanes in the Palladium-Catalysed Allylation of Secondary and Primary Amines

Keywords: Allylation / Amines / Catalysis / Palladium / Phosphorus

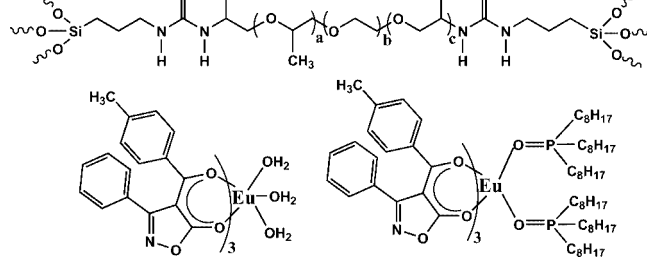


3923

P. P. Lima, S. A. Junior, O. L. Malta,
L. D. Carlos, R. A. Sá Ferreira,
R. Pavithran, M. L. P. Reddy*

Synthesis, Characterization, and Luminescence Properties of Eu^{3+} 3-Phenyl-4-(4-toluoyl)-5-isoxazolonate Based Organic-Inorganic Hybrids

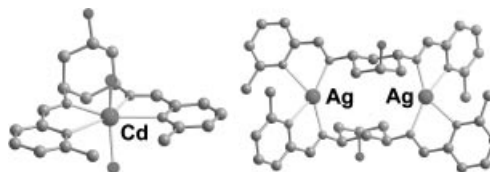
Keywords: Organic-inorganic hybrids / Eu^{3+} / Heterocyclic β -diketonates / Synthesis / Characterization / Luminescence



3930 J. Fielden, D.-L. Long, C. Evans, L. Cronin*

Metal-Dependent Formation of Mononuclear Complexes and M_2L_2 Mesocates with Schiff-Base Ligands

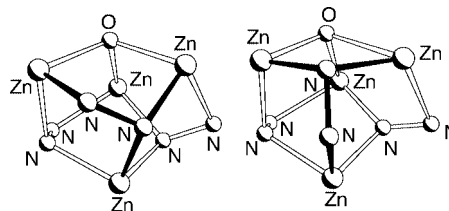
Keywords: Supramolecular chemistry / Schiff-base ligands / Coordination modes / Silver / Cadmium



3936 S. Jana, R. Fröhlich, N. W. Mitzel*

Zinc Hydrazide and Zinc Alkoxide Hydrazide Cages with Zn_4N_8 and Zn_4N_6O Cores – Cluster Isomerism as a Result of Subtle Changes in Ligand Size

Keywords: Zinc / Hydrazines / Cage compounds / Co-crystalline compounds / N ligands

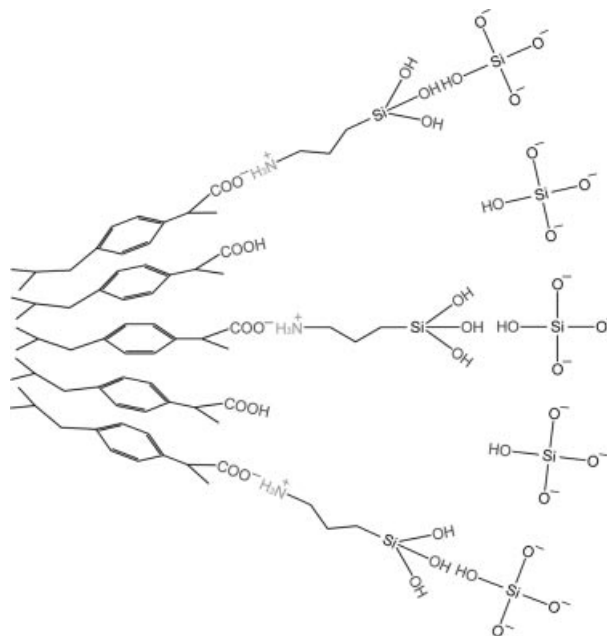


3943 F. Qu, G. Zhu,* H. Lin, J. Sun, D. Zhang, S. Li, S. Qiu*



Drug Self-Templated Synthesis of Ibuprofen/ Mesoporous Silica for Sustained Release

Keywords: Template synthesis / Ibuprofen / Mesoporous materials / Silica

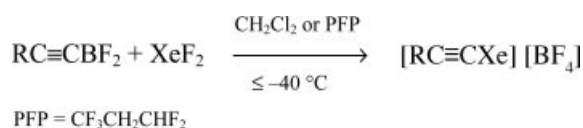


3948 H.-J. Frohn,* V. V. Bardin



Organoethynylxenon(II) Tetrafluoroborates, $[RC\equiv CXe][BF_4]$ – The First Examples of Isolated Alkynylxenonium Salts: Preparation and Multi-NMR Characterisation

Keywords: Alkynes / Boranes / Xenon / NMR spectroscopy



3954 S. K. Singh, M. Chandra, S. K. Dubey,
D. S. Pandey*

Tuned Helical Array of Rh^{III}/Ir^{III} Cp* Complexes with Polypyridyl Ligands

Keywords: Rhodium-Cp* / Iridium-Cp* / Polypyridyl ligands / Tuned helical / Weak interactions

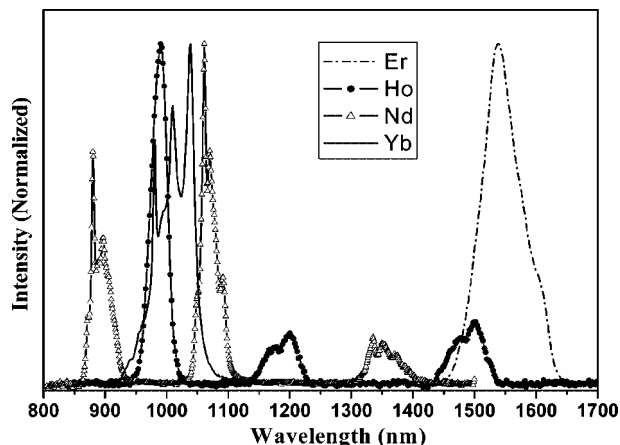


3962 L.-N. Sun, J.-B. Yu, G.-L. Zheng,
H.-J. Zhang,* Q.-G. Meng, C.-Y. Peng,
L.-S. Fu, F.-Y. Liu, Y.-N. Yu



Syntheses, Structures and Near-IR Luminescent Studies on Ternary Lanthanide (Er^{III}, Ho^{III}, Yb^{III}, Nd^{III}) Complexes Containing 4,4,5,5,6,6,6-Heptafluoro-1-(2-thienyl)hexane-1,3-dionate

Keywords: Lanthanides / Luminescence / Optical amplification

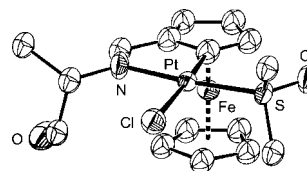


3974 C. López,* A. Caubet, S. Pérez, X. Solans,
M. Font-Bardía, E. Molins



Chiral Platinum(II) Compounds Containing Ferrocenyl Schiff Bases Acting as (N), (N,O)⁻, [C(sp²,ferrocene),N]⁻ or [C(sp²,ferrocene),N,O]²⁻ Ligands

Keywords: Platinum / Ferrocene / Platinacycles / N ligands / N,O ligands



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