

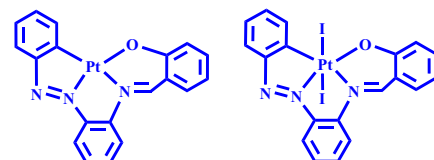
Contents

Poulami Pattanayak, Sankar Prasad Parua, Debprasad Patra, Jahar Lal Pratihari, Paula Brandão, Vitor Felix and Surajit Chattopadhyay

Polyhedron 70 (2014) 1

Synthesis, characterizations and structure of orthometallated Pt(II) and Pt(IV) complexes: Oxidative addition to C,N,N,O coordinated Pt(II) complexes

Newly prepared orthometallated complexes of Pt(II) underwent facile oxidative addition without breakage of Pt–C bond. The strategy is fascinating in terms of the synthesis of orthoplatinated Pt(IV) complex.

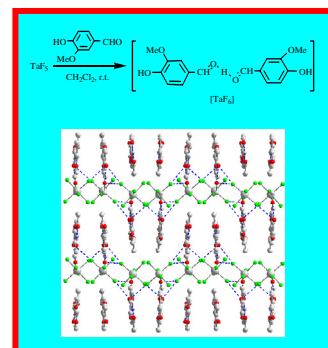


Mohammad Hayatifar, Fabio Marchetti, Guido Pampaloni and Stefano Zacchini

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Reactions of TaF₅ with activated arenes. Synthesis of [4-(OH)-3-(OCH₃)C₆H₃CH(=O–H)][4-(OH)-3-(OCH₃)C₆H₃CHO][TaF₆], a rare example of protonated aldehyde

The protonated aldehyde salt [4-(OH)-3-(OCH₃)C₆H₃CH(=O–H)][4-(OH)-3-(OCH₃)C₆H₃CHO][TaF₆] was isolated in the solid state by the reaction of vanillin with TaF₅ in dichloromethane and structurally characterized.

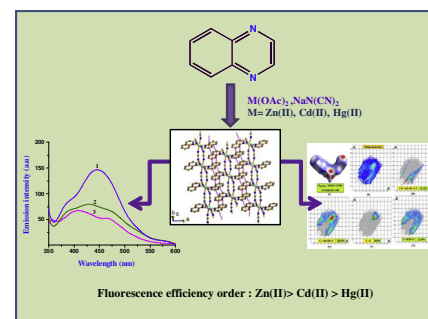


Prateeti Chakraborty, Sandip Mondal, Sudhanshu Das, Atish Dipankar Jana and Debasis Das

Polyhedron 70 (2014) 11

Dicyanamide mediated construction of 1D polymeric networks of quinoxaline with d¹⁰ metal ions: Synthesis, thermogravimetric analysis, photoluminescence and a theoretical investigation on the π··π interactions

The interaction of quinoxaline with M(OAc)₂ [where M = Zn(II), Cd(II) and Hg(II)] in the presence of the spacer dicyanamide generates one-dimensional coordination polymers. Although the metal ions have no influence in making the structural motifs, they play a crucial role in controlling the luminescence properties of the complexes.

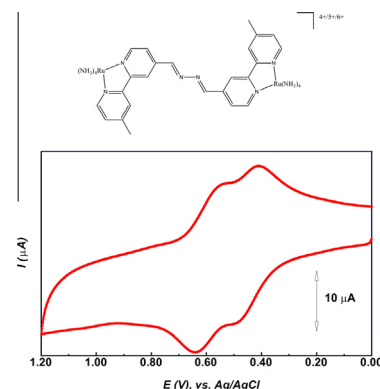


Mauricio Cattaneo, Mónica M. Vergara, Mónica E. García Posse, Florencia Fagalde, Teodor Parella and Néstor E. Katz

Polyhedron 70 (2014) 20

Spectroscopic, electrochemical and computational studies of rhenium(I) and ruthenium(II) complexes incorporating the novel tetradentate ligand 1,4-bis(4-(4'-methyl)-2,2'-bipyridyl)-2,3-diaza-1,3-butadiene (BBDB) and its derivatives

A new bridging ligand, 1,4-bis(4-(4'-methyl)-2,2'-bipyridyl)-2,3-diaza-1,3-butadiene (BBDB), and novel complexes of rhenium tricarbonyls, ruthenium polypyridines and ruthenium amines containing BBDB and its hydrolysis derivatives have been synthesized and characterized by spectroscopic, electrochemical and computational techniques.

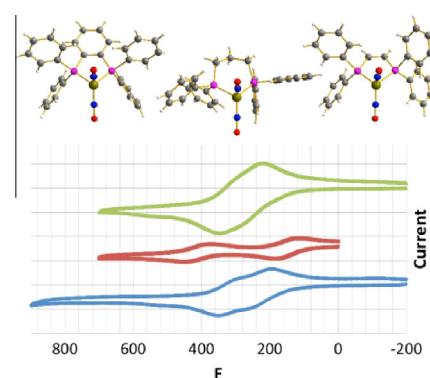


Lauren R. Holloway, Andrew J. Clough, Jessica Y. Li, Emily L. Tao, Fu-Ming Tao and Lijuan Li

Polyhedron 70 (2014) 29

A combined experimental and theoretical study of dinitrosyl iron complexes containing chelating bis(diphenyl)phosphinoX (X = benzene, propane and ethylene): X-ray crystal structures and properties influenced by the presence or absence of π -bonds in chelating ligands

Dinitrosyl iron complexes with formula $[(DPPX)Fe(NO)_2]$, {DPPX = 1,2-bis(diphenylphosphino)benzene (**1**), 1,3-bis(diphenylphosphino)propane (**2**), and cis-1,2-bis(diphenylphosphino)ethylene (**3**)} have been prepared and characterized by FT-IR, NMR, UV-Vis, X-ray crystallography, electrochemical techniques, and DFT calculations. The presence of π -bonds between the two phosphorus atoms lowered the HOMO-LUMO gap and caused charge delocalization upon oxidation.

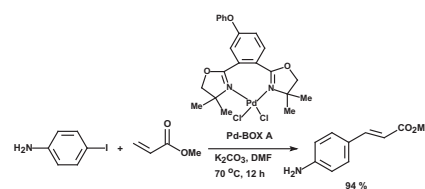


S.M. Shakil Hussain, Mansur B. Ibrahim, Atif Fazal, Rami Suleiman, Mohammed Fettouhi and Bassam El Ali

Polyhedron 70 (2014) 39

Palladium-bis(oxazoline) complexes with inherent chirality: Synthesis, crystal structures and applications in Suzuki, Heck and Sonogashira coupling reactions

New palladium-bis(oxazoline) (Pd-BOX) complexes were synthesized and characterized. The coordination to the palladium ion allows the non C_2 -symmetric bis(oxazoline) ligand-based palladium complexes to acquire a rigid backbone curvature generating an inherent chirality. The catalytic activities were evaluated in Suzuki-Miyaura, Mizoroki-Heck and Sonogashira coupling reactions.

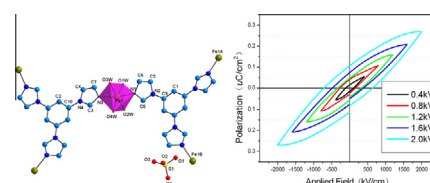


Yu-Hui Tan, Yin-Mei Yu, Jian-Bo Xiong, Ji-Xing Gao, Qing Xu, Chao-wu Fu, Yun-Zhi Tang and He-Rui Wen

Polyhedron 70 (2014) 47

Synthesis, structure and ferroelectric-dielectric properties of an acentric 2D framework with imidazole-containing tripodal ligands

Compound **1** has a two-dimensional honeycomb networks with (6, 3) topology, exhibits a typical ferroelectric with electric hysteresis loops.



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