

Publications LCC 2004

Nanomaterials based on phosphorus dendrimers

CAMINADE A.-M., MAJORAL J.-P.

Acc. Chem. Res., 2004, **37**, pp. 341-348 (LCC-6744).

A substituted EDOT precursor: diethyl 3,4-dihydroxythiophene-2,5-dicarboxylate

FAULMANN C., PULLEN A.E.

Acta Crystallogr., Sect. C, 2004, **C60**, pp. o338-o340 (LCC-7128).

Les dendrimères en biologie : quelques exemples d'applications

MAJORAL J.-P., CAMINADE A.-M.

Actualités G.F.P., 2004, **97**, pp. 20-23 (LCC-6736).

Metallic thin films of TFF[Ni(dmit)₂]₂ by electrodeposition on (001)-oriented silicon substrates

DE CARO D., FRAXEDAS J., FAULMANN C., MALFANT I., MILON J., LAMERE J.-F., COLLIÈRE V., VALADE L.

Adv. Mater., 2004, **16**, pp. 835-838 (LCC-6833).

Surfactant-stabilized aqueous iridium (0) colloidal suspension : an efficient reusable catalyst for hydrogenation of arenes in biphasic media

MEVELLEC V., ROUCOUX A., RAMIREZ E., PHILIPPOT K., CHAUDRET B.

Adv. Synth. Catal., 2004, **346**, pp. 72-76 (LCC-7022).

Biomimetic chemical catalysts in the oxidative activation of drugs

BERNADOU J., MEUNIER B.

Adv. Synth. Catal., 2004, **346**, pp. 171-184 (LCC-6842).

Synthesis, conformational analysis and catalytic properties of a chiral P,C-chelated rhodium(I) complex with a binapium ylide ligand

CANAL C., LEPETIT C., SOLEILHAVOUP M., CHAUVIN R.

Afinidad, 2004, **61**, pp. 298-303 (LCC-6859).

A nonanuclear iron(II) single-molecule magnet

BOUDALIS A.K., DONNADIEU B., NASTOPOULOS V., CLEMENTE-JUAN J.M., MARI A., SANAKIS Y., TUCHAGUES J.-P., PERLEPES S.P.

Angew. Chem. (Int. Ed. Engl.), 2004, **43**, pp. 2266-2270 (LCC-7088).

Synthesis and stereochemistry of dinucleoside (3', 5')-phosphorothioates mechanism of oximate removal of the 2-chlorophenyl

WOZNIAK L.A., BUKOWIECKA-MATUSIAK M., MOURGUES S., STEC W.

Ann. Pol. Chem. Soc., 2004, **3** (LCC-6994).

In vitro inhibition of the *Mycobacterium tuberculosis* β -ketoacyl-acyl carrier protein reductase mabA by isoniazid

DUCASSE-CABANOT S., COHEN-GONSAUD M., MARRAKCHI H., NGUYEN M., ZERBIB D., BERNADOU J., DAFFE M., LABESSE G., QUEMARD A.

Antimicrob. Agents Chemother., 2004, pp. 242-249 (LCC-6729).

The stable tyrosyl radical in photosystem II : why D ?

RUTHERFORD A.W., BOUSSAC A., FALLER P.

Biochim. Biophys. Acta, 2004, **1655**, pp. 222-230 (LCC-6745).

Photochemical oxidative addition of B-H bonds at ruthenium and rhodium

CALLAGHAN P. L., FERNANDEZ-PACHECO R., JASIM N., LACHAIZE S., MARDER T.B., PERUTZ R.N., RIVALTA E., SABO-ETIENNE S.

Chem. Commun., 2004, pp. 242-243 (LCC-7040).

Giant dendrimer-like particles from nanolatexes

LARPENT C., GENIES C., DE SOUSA DELGADO A.P., CAMINADE A.-M., MAJORAL J.-P., SASSI J.-F., LEISING F.

Chem. Commun., 2004, pp. 1816-1817 (LCC-6836).

Synthesis of hybrid dendrimer-star polymers by the RAFT process

DARCOS V., DUREAULT A., TATON D., GNANOU Y., MARCHAND P., CAMINADE A.-M., MAJORAL J.-P., DESTARAC M., LEISING F.

Chem. Commun., 2004, pp. 2110-2111 (LCC-6834).

Al(OPrⁱ)₃-catalysed halogen exchange processes of relevance to atom transfer radical polymerization: the effect depends on the metal electronic structure

STOFFELBACH F., POLI R.

Chem. Commun., 2004, pp. 2666-2667 (LCC-7263).

High oxidation state organometallic chemistry in aqueous media: new opportunities for catalysis and electrocatalysis

POLI R.

Chem. Eur. J., 2004, **10**, pp. 332-341 (LCC-7262).

New dihydroxy bis(oxazoline) ligands for the palladium-catalyzed asymmetric allylic alkylation : experimental investigations of the origin of the reversal of the enantioselectivity

AIT-HADDOU H., HOARAU O., CRAMAILERE D., PEZET F., DARAN J.-C., BALAVOINE G.G.A.

Chem. Eur. J., 2004, **10**, pp. 699-707 (LCC-6754).

Synthesis and antimalarial activity of trioxaquine derivatives

DECHY-CABARET O., BENOIT-VICAL F., LOUP C., ROBERT A., GORNITZKA H., BONHOURE I., VIAL H., MAGNAVAL J.-F., SEQUELA J.-P., MEUNIER B.

Chem. Eur. J., 2004, **10**, pp. 1625-1636 (LCC-6733).

Donating strength of azulene in various azulene-1-yl- substituted cationic dyes : application in nonlinear optics

CRISTIAN L., SASAKI I., LACROIX P.G., DONNADIEU B.

Chem. Mater., 2004, **16**, pp. 3543-3551 (LCC-7083).

New Ru nanoparticles stabilized by organosilane fragments

PELZER K., LALEU B., LEFEBVRE F., PHILIPPOT K., CHAUDRET B., CANDY J.P., BASSET J.-M.

Chem. Mater., 2004, **16**, pp. 4937-4941 (LCC-7023).

Mechanism of oxydation reactions catalyzed by cytochrome P450 enzymes

MEUNIER B., DE VISSER S.P., SHAIK S.

Chem. Rev., 2004, **104**, pp. 3947-3980 (LCC-6835).

Porphyrin derivatives for telomere binding and telomerase inhibition

DIXON I.M., LOPEZ F., ESTEVE J.-P., TEJERA A.M., BLASCO M.A., PRATVIEL G., MEUNIER B.

ChemBioChem, 2004, **5**, pp. 1-10 (LCC-6824).

Hetero di- and trinuclear Cu-Gd complexes with trifluoroacetate bridges : synthesis, structural and magnetic studies

NOVITCHI G., SHOVA S., CANESCHI A., COSTES J.-P., GDANIEC M., STANICA N.

Dalton Trans., 2004, pp. 1194-1200 (LCC-6996).

Bis-dinuclear (Cu-Gd)₂ complexes with a probable helicate structure

NOVITCHI G., COSTES J.-P., TUCHAGUES J.-P.

Dalton Trans., 2004, pp. 1739-1742 (LCC-6995).

The reaction of $M(\text{CO})_3(\text{Ph}_2\text{PCH}_2\text{CH}_2\text{PPh}_2)$, $M = \text{Fe, Ru}$ with *parahydrogen*: probing the electronic structure of reaction intermediates and the internal rearrangement mechanism for the dihydride products
SCHOTT D., CALLAGHAN P. L., DUNNE J.P., DUCKETT S.B., GODARD C., GOICOECHEA J.M., HARVEY J.N., LOWE J.P., MAWBY R.J., MULLER G., PERUTZ R.N., POLI R., WHITTLESEY M.K.

Dalton Trans., 2004, pp. 3218-3224 (LCC-7258).

A combined *parahydrogen* and theoretical study of H_2 activation by 16-electron d^8 ruthenium zero complexes and their subsequent catalytic behaviour
DUNNE J.P., BLAZINA D., AIKEN S., CARTERET H.A., DUCKETT S.B., JONES J.A., POLI R., WHITWOOD A.C.

Dalton Trans., 2004, pp. 3616-3628 (LCC-7257).

Reactivity of $[\text{Cp}_2\text{Ti}(\text{CO})_2]$ towards nitrile and water adducts of $\text{B}(\text{C}_6\text{F}_5)_3$: formation of $[\text{Cp}_2\text{Ti}(n^2\text{-F}_3\text{CC}_6\text{H}_4\text{CN})\text{-B}(\text{C}_6\text{F}_5)_3]$ and $[\text{Cp}_2\text{Ti}][\text{HOB}(\text{C}_6\text{F}_5)_3]$ with a Ti-F interaction
CHOUKROUN R., LORBER C., VENDIER L.

Eur. J. Inorg. Chem., 2004, pp. 317-321 (LCC-6728).

A bis(diazadiene) adduct of MoCl_2 : mononuclear octahedral, undistorted and diamagnetic
STOFFELBACH F., REBIERE B., POLI R.

Eur. J. Inorg. Chem., 2004, pp. 726-731 (LCC-7261).

Allylpalladium(II) complexes with aminophosphane ligands: solution behaviour and X-ray structure of *cis*- $[\text{Pd}(n^3\text{-CH}_2\text{CHCHPh})(\text{Ph}_2\text{PCH}_2\text{CHPhNH}(2,6\text{-C}_6\text{H}_3^i\text{Pr}_2))][\text{PF}_6]$

CAMUS J.-M., ANDRIEU J., RICHARD P., POLI R.

Eur. J. Inorg. Chem., 2004, pp. 1081-1091 (LCC-7260).

Macrocyclic and open-chain $\text{Cu}^{\text{II}}\text{-4f}$ ($4f = \text{Gd}^{\text{III}}, \text{Ce}^{\text{III}}$) complexes with planar diamino chains: structures and magnetic properties

COSTES J.-P., DAHAN F., NOVITCHI G., ARION V., SHOVA S., LIPKOWSKI J.

Eur. J. Inorg. Chem., 2004, pp. 1530-1537 (LCC-7000).

Synthesis and structure of 1-d heterometallic thiocyanato-bridged $\text{Cu}^{\text{II}}\text{Gd}^{\text{III}}$ polymers with ferromagnetic properties

NOVITCHI G., COSTES J.-P., DONNADIEU B.

Eur. J. Inorg. Chem., 2004, pp. 1808-1812 (LCC-6999).

Synthesis and core and surface reactivity of phosphorus-based dendrons

SEBASTIAN R.M., GRIFFE L., TURRIN C.O., DONNADIEU B., CAMINADE A.-M., MAJORAL J.-P.

Eur. J. Inorg. Chem., 2004, pp. 2459-2466 (LCC-6747).

Paramagnetic chloro-, alkoxo-, or azido- vanadium(IV) complexes supported by a [ONNO]-type amine bis(phenolate) ligand

WOLFF F., LORBER C., CHOUKROUN R., DONNADIEU B.

Eur. J. Inorg. Chem., 2004, pp. 2861-2867 (LCC-6972).

Heat- and light-induced spin transition of an iron(II) polymer containing the 1.2.4.5-tetrakis(diphenylphosphanyl)benzene ligand

ROSA P., DEBAY A., CAPES L., CHASTANET G., BOUSSEKSOU A., LE FLOCH P., LETARD J.-F.

Eur. J. Inorg. Chem., 2004, pp. 3017-3019 (LCC-6902).

A new synthetic method and solution equilibria for the chlorotitanate(IV) anions. Evidence for the existence of a new species: $[\text{Ti}_2\text{Cl}_{11}]^{3-}$

ROBE E., DARAN J.-C., VINCENDEAU S., POLI R.

Eur. J. Inorg. Chem., 2004, pp. 4108-4114 (LCC-7264).

Switching of molecular spin states in inorganic complexes by temperature, pressure, magnetic field and light : towards molecular devices

BOUSSEKSOU A., MOLNAR G., MATOUZENKO G.S.

Eur. J. Inorg. Chem., 2004, pp. 4353-4369 (LCC-6903).

Magnetic nanoparticles through organometallic synthesis : Evolution of the magnetic properties from isolated nanoparticles to organised nanostructures

DUMESTRE F., MARTINEZ S., ZITOUN D., FROMEN M.-C., CASANOVE M.-J., LECANTE P., RESPAUD M., SERRES A., BENFIELD R.E., AMIENS C., CHAUDRET B.

Faraday Discuss., 2004, **125**, pp. 265-278 (LCC-7017).

Alkylation of human hemoglobin A₀ by the antimalarial drug artemisinin

SELMECZI K., ROBERT A., CLAPAROLS C., MEUNIER B.

FEBS Lett., 2004, **556**, pp. 245-248 (LCC-6730).

Pfcr K76T mutation and its associations in imported *Plasmodium falciparum* malaria cases

BERRY A., VESSIERE A., FABRE R., BENOIT-VICAL F., MARCHOU B., MASSIP P., MAGNAVAL J.-F.

Infection, Genetics and Evolution, 2004, **4**, pp. 361-364 (LCC-6841).

Cooperative spin crossover and order-disorder phenomena in a mononuclear compound [Fe(DAPP)(abpt)](ClO₄)₂ [DAAP= [bis(3-aminopropyl)(2-pyridylmethyl)amine] , abpt= 4-amino-3,5-bis(pyridin-2-yl)-1,2,4-triazole]

MATOUZENKO G.S., BOUSSEKSOU A., BORSHCH S.A., PERRIN M., ZEIN S., SALMON L., MOLNAR G., LECOCQ S.

Inorg. Chem., 2004, **43**, pp. 227-236 (LCC-6899).

New poly-iron(II) complexes of N₄O dinucleating schiff bases and pseudohalides : syntheses, structures and magnetic and mössbauer properties

BOUDALIS A.K., CLEMENTE-JUAN J.M., DAHAN F., TUCHAGUES J.-P.

Inorg. Chem., 2004, **43**, pp. 1574-1586 (LCC-7085).

From calcium interaction to calcium electrochemical detection by [(C₅H₅)Fe(C₅H₄COCH=CHC₆H₄NEt₂)] and its two novel structurally characterized derivatives

MAYNADIE J., DELAVAUZ-NICOT B., LAVABRE D., DONNADIEU B., DARAN J.-C., SOURNIA-SAQUET A.

Inorg. Chem., 2004, **43**, pp. 2064-2077 (LCC-6732).

Iron(II)-carboxylate complexes based on a tetra-imidazole ligand as models of the photosynthetic non-heme ferrous sites. synthesis, crystal structure, and mössbauer and magnetic studies

LEMERCIER G., MULLIEZ E., BROUCA-CABARRECQ C., DAHAN F., TUCHAGUES J.-P.

Inorg. Chem., 2004, **43**, pp. 2105-2113 (LCC-7091).

Synthesis, structures, and magnetic properties of novel mononuclear, tetranuclear, and 1D chain Mn^{III} complexes involving three related asymmetrical trianionic ligands

COSTES J.-P., DAHAN F., DONNADIEU B., RODRIGUEZ-DOUTON M.-J., FERNANDEZ-GARCIA M.I., BOUSSEKSOU A., TUCHAGUES J.-P.

Inorg. Chem., 2004, **43**, pp. 2736-2744 (LCC-6901).

Supramolecular spin-crossover iron complexes based on imidazole-imidazolate hydrogen bonds

SUNATSUKI Y., OHTA H., KOJIMA M., IKUTA Y., GOTOH Y., MATSUMOTO N., LIJIMA S., AKASHI S., DAHAN F., TUCHAGUES J.-P.

Inorg. Chem., 2004, **43**, pp. 4154-4171 (LCC-7086).

An unprecedented trinuclear structure involving two high-spin and one spin-crossover iron(II) centers

PSOMAS G., BREFUEL N., DAHAN F., TUCHAGUES J.-P.

Inorg. Chem., 2004, **43**, pp. 4590-4594 (LCC-7087).

Synthesis, structures, and physical properties of copper(II)-gadolinium(III) complexes combining ferromagnetic and quadratic nonlinear optical properties

MARGEAT O., LACROIX P.G., COSTES J.-P., DONNADIEU B., LEPETIT C., NAKATANI K.

Inorg. Chem., 2004, **43**, pp. 4743-4750 (LCC-6998).

Electronic factors affecting second-order NLO properties : case study of four different push-pull bis-dithiolene nickel complexes

CURRELI S., DEPLANO P., FAULMANN C., LENCO A., MEALLI C., MERCURI M.L., PILIA L., PINTUS G., SERPE A., TROGU E.F.

Inorg. Chem., 2004, **43**, pp. 5069-5079 (LCC-7129).

Synthesis, structure and magnetic properties of heterometallic dicyanamide-bridged Cu-Na and Cu-Gd one-dimensional polymers

COSTES J.-P., NOVITCHI G., SHOVA S., DAHAN F., DONNADIEU B., TUCHAGUES J.-P.

Inorg. Chem., 2004, **43**, pp. 7792-7799 (LCC-6997).

Unprecedented (Cu₂Ln)_n complexes (Ln = Gd³⁺, Tb³⁺): a new "single chain magnet"

COSTES J.-P., CLEMENTE-JUAN J.M., DAHAN F., MILON J.

Inorg. Chem., 2004, **43**, pp. 8200-8202 (LCC-7004).

Nickel complexes of carboxylate-containing polydentate ligands as models for the active site of urease

CARLSSON H., HAUKKA M., BOUSSEKSOU A., LATOUR J.-M., NORDLANDER E.

Inorg. Chem., 2004, **43**, pp. 8252-8262 (LCC-6904).

A new example of tetranuclear iron(III) cluster containing the [Fe₄O₂]⁸⁺ core : Preparation, X-ray crystal structure, magnetochemistry and Mössbauer study of [Fe₄O₂(O₂CMe)₆(N₃)₂(phen)₂]

BOUDALIS A.K., TANGOULIS V., RAPTOPOULOU C.P., TERZIS A., TUCHAGUES J.-P., PERLEPES S.P.

Inorg. Chim. Acta, 2004, **357**, pp. 1345-1354 (LCC-7090).

New binuclear model compounds for the study of the 4f-4f exchange interaction

GHEORGE R., KRAVTSOV V., SIMONOV Y.A., COSTES J.-P., JOURNAUX Y., ANDRUH M.

Inorg. Chim. Acta, 2004, **357**, pp. 1613-1618 (LCC-7003).

A dinuclear copper(II) complex with a Cu(O, N-O)Cu bridging core: structural and magnetic (experimental and density functional theory) studies

BENCINI A., COSTES J.-P., DAHAN F., DUPUIS A., GARCIA-TOJAL J., GATTESCHI D., TOTTI F.

Inorg. Chim. Acta, 2004, **357**, pp. 2150-2156 (LCC-7002).

Synthesis, crystal structures, and molecular hyperpolarizabilities of a new Schiff base ligand, and its copper(II), nickel(II), and cobalt(II) metal complexes

LACROIX P.G., AVERSENG F., Malfant I., NAKATANI K.

Inorg. Chim. Acta, 2004, **357**, pp. 3825-3825 (LCC-6821).

Synthesis and characterization of new heterodinuclear (4f,4f') lanthanide complexes

COSTES J.-P., NOVITCHI G., LEBRUN C.

J. Alloys Compd., 2004, **374**, pp. 377-381 (LCC-7001).

A case for enantioselective allylic alkylation catalysed by palladium nanoparticles

JANSAT S., GOMEZ M., PHILIPPOT K., MULLER G., GUIU E., CLAVER C., CASTILLON S., CHAUDRET B.

J. Am. Chem. Soc., 2004, **126**, pp. 1592-1593 (LCC-7021).

Nanometric sponges made of water-soluble hydrophobic dendrimers

LECLAIRE J., COPPEL Y., CAMINADE A.-M., MAJORAL J.-P.

J. Am. Chem. Soc., 2004, **126**, pp. 2304-2305 (LCC-6727).

Bridging the gap between homogeneous and heterogeneous catalysis: ortho/para-H₂ conversion, hydrogen isotope scrambling and hydrogenation of olefins by Ir(CO)Cl(PPh₃)₂
MATTHES J., PERY T., GRUNDEMANN S., BUNTKOWSKI G., SABO-ETIENNE S., CHAUDRET B., LIMBACH H.-H.

J. Am. Chem. Soc., 2004, **126**, pp. 8366-8367 (LCC-7026).

Comparison of the cleavage profiles of oligonucleotide duplexes with or without phosphorothioate linkages by using a chemical nuclease probe

CHWOROS A., ARNAUD P., ZAKRZEWSKA K., GUGA P., PRATVIEL G., STEC W., MEUNIER B.

J. Biol. Inorg. Chem., 2004, **9**, pp. 374-384 (LCC-6740).

Hyperpolarizability of novel carbo-meric push-pull chromophores

LEPETIT C., LACROIX P.G., PEYROU V., SACCAVINI C., CHAUVIN R.

J. Comput. Methods Sc. Engin., 2004, **4** (LCC-6860).

Cationic phosphorus-containing dendrimers reduce prion replication both in cell culture and in mince infected with scrapie

SOLASSOL J., CROZET C., PERRIER V., LECLAIRE J., BERANGER F., CAMINADE A.-M., MEUNIER B., DORMONT D., MAJORAL J.-P., LEHMANN S.

J. Gen. Virol., 2004, **85**, pp. 1791-1799 (LCC-6748).

One pot diastereoselective synthesis of new chiral spiro-1,3,4-thiadiazoles and 1,4,2-oxathiazoles from (1*R*)-thiocamphor

FEDDOULI A., AIT ITTO M.Y., HASNAOUI A., VILLEMIN D., JAFFRES P.A., DE OLIVEIRA SANTOS J.S., RIAHI A., HUET F., DARAN J.-C.

J. Heterocycl. Chem., 2004, **41**, pp. 731-735 (LCC-7094).

One pot diastereoselective synthesis of new chiral spiro-1,3,4-thiadiazoles and 1,4,2-oxathiazoles from (1*R*)-thiocamphor

FEDDOULI A., AIT ITTO M.Y., HASNAOUI A., VILLEMIN D., JAFFRES P.A., SOPKOVA DE OLIVEIRA SANTOS I., RIAHI A., HUET F.

J. Heterocycl. Chem., 2004, **41**, pp. 731-735 (LCC-6979).

Synthesis, characterisation and catalase-like activity of dimanganese(III) complexes of 1,5-bis(5-X-salicylidenamino)pentan-3-ol (X = nitro and chloro)

DAIER V., BIAVA H., PALOPOLI C., SHOVA S., TUCHAGUES J.-P., SIGNORELLA S.

J. Inorg. Biochem., 2004, **98**, pp. 1806-1817 (LCC-7089).

Bimetallic CoRh and CoRu nanoparticles: size-induced enhanced magnetisation

ZITOUN D., RESPAUD M., FROMEN M.-C., LECANTE P., CASANOVE M.-J., AMIENS C., CHAUDRET B.

J. Magn. Magn. Mater., 2004, **272-276**, pp. 1536-1538 (LCC-7025).

Structural study and electrical conductivity of salts based on functionalised TTF containing peripheral selenium atoms

KABOUB L., LEGROS J.-P., DONNADIEU B., GOUASMIA A., BOUDIBA L., FABRE J.-M.

J. Mater. Chem., 2004, **14**, pp. 351-356 (LCC-6594).

Conducting oriented $-(n-C_4H_9)_4N]_2[Ni(dcbdt)_2]_5$ and new(BEDT-TTF)[Ni(dcbdt)₂] phases as microcrystalline films, electrodeposited on silicon substrates

DE CARO D., ALVES H., ALMEIDA M., CAILLEUX S., ELGADDARI M., FAULMANN C., MALFANT I., SENOCQ F., FRAXEDAS J., ZWICK A., VALADE L.

J. Mater. Chem., 2004, **14**, pp. 2801-2805 (LCC-6831).

RuH₂(H₂)₂(PCy₃)₂. A room temperature catalyst for the Murai reaction

GUARI Y., CASTELLANOS A., SABO-ETIENNE S., CHAUDRET B.

J. Mol. Catal. A, 2004, **212**, pp. 77-82 (LCC-7018).

- Kinetics and mechanism of the hydroformylation of styrene catalysed by the rhodium/TPP system (TPP = 1,2,5-triphenyl-1*H*-phosphole).
BERGOUNHOU C., NEIBECKER D., MATHIEU R.
J. Mol. Catal. A, 2004, **220**, pp. 167-182 (LCC-6968).
- Pd colloid-catalysed methoxycarbonylation of iodobenzene in ionic liquids
WOJTKOW W., TRZECIAK A.M., CHOUKROUN R., PELLEGATTA J.-L.
J. Mol. Catal. A, 2004, **224**, pp. 81-86 (LCC-6969).
- Antifungal activity of a spirostanol tomatoside obtained from *Lycopersicon esculentum* mill against various yeast species
BAISSAC Y., BENOIT-VICAL F., LAVAUD C., IMBERT C.
J. Mycol. Med., 2004, **14**, pp. 59-63 (LCC-6851).
- Open shell organometallics: a general analysis of their electronic structure and reactivity
POLI R.
J. Organomet. Chem., 2004, **689** (LCC-7255).
- Palladium complex of a chiral P,C-chelating phosphino-(sulfinylmethyl)phosphonium ylide ligand.
ZURAWINSKI R., DONNADIEU B., MIKOLAJCZYK M., CHAUVIN R.
J. Organomet. Chem., 2004, **689**, pp. 380-386 (LCC-6857).
- Investigation in the coupling of zirconocene complexes and trimethylsilyl(diphenylphosphino)acetylene. P-C bond cleavage chemistry from protonolysis reactions
EL HAROUCH Y., CADIerno V., IGAU A., DONNADIEU B., MAJORAL J.-P.
J. Organomet. Chem., 2004, **689**, pp. 953-964 (LCC-6844).
- Coordination properties of N₂S (1,5-bis(3,5-dimethyl-1-pyrazolyl)-3-thiapentane) or N₂S₂(1,8-bis(3,5-dimethyl-1-pyrazolyl)-3,6-dithiaoctane or 1,2-bis[3-(3,5-dimethyl-1-pyrazolyl)-2-thiapropryl]benzene) donor ligands toward Rh(I)
GARCIA-ANTON J., MATHIEU R., LUGAN N., PONS-PICART J., ROS J.
J. Organomet. Chem., 2004, **689**, pp. 1599-1608 (LCC-6763).
- A one-pot method to prepare the carbene complex [Tp^{Me2}ClRhCl₂(CHN*i*Pr₂)] from [Tp^{Me2}ClRh(CO)₂], CHCl₃ and NH*i*Pr₂
TEUMA E., MALBOSC F., ETIENNE M., DARAN J.-C., KALCK P.
J. Organomet. Chem., 2004, **689**, pp. 1763-1765 (LCC-6726).
- Synthesis, crystal structures, and quadratic nonlinear optical properties in four "push-pull" diorganotin derivatives
REYES H., GARCIA C., FARFAN N., SANTILLAN R., LACROIX P.G., LEPETIT C., NAKATANI K.
J. Organomet. Chem., 2004, **689**, pp. 2303-2310 (LCC-7115).
- Influence of organic ligands on the stabilization of palladium nanoparticles
RAMIREZ E., JANSAT S., PHILIPPOT K., LECANTE P., GOMEZ M., MASDEU-BULTO A.M., CHAUDRET B.
J. Organomet. Chem., 2004, **689**, pp. 4601-4610 (LCC-7024).
- Mononuclear and binuclear ruthenium(II) heteroleptic complexes based on 1,10-phenanthroline ligands. Part I : synthesis, spectroscopic and photophysical study
BOUSKILA A., DRAHI B., AMOUYAL E., SASAKI I., GAUDEMER A.
J. Photochem. Photobiol. A, 2004, **163**, pp. 381-388 (LCC-6737).
- Mononuclear and binuclear ruthenium(II) heteroleptic complexes based on 1,10-phenanthroline ligands. Part II : spectroscopic and photophysical study in the presence of DNA
BOUSKILA A., AMOUYAL E., VERCHERE-BEAUR C., SASAKI I., GAUDEMER A.
J. Photochem. Photobiol. B, 2004, **76**, pp. 69-83 (LCC-6828).
- Pressure tuning Raman Spectroscopy of the spin crossover coordination polymer Fe(C₅H₅N)₂[Ni(CN)₄]
MOLNAR G., KITAZAWA T., DUBROVINSKY L., MCGARVEY J.J., BOUSSEKSOU A.
J. Phys. - Condens. Matter, 2004, **16**, pp. S1129-S1136 (LCC-6900).

EXAFS and XANES study of a pure and Pd doped novel Sn/SnO_x nanomaterial
GRANDJEAN D., BENFIELD R.E., NAYRAL C., MAISONNAT A., CHAUDRET B.
J. Phys. Chem. B, 2004, **108**, pp. 8876-8887 (LCC-6749).

Versatile synthesis of individual single-walled carbon nanotubes from nickel nanoparticles for the study of their physical properties
PAILLET M., JOURDAIN V., PONCHARAL P., SAUVAJOL J.-L., ZAHAB A., MEYER J.C., ROTH S., CORDENTE N., AMIENS C., CHAUDRET B.
J. Phys. Chem. B, 2004, **108**, pp. 17112-17118 (LCC-7029).

Self-assembly of water-soluble dendrimers into thermoreversible hydrogels and macroscopic fibers
EL GHZAOUI A., GAUFFRE F., CAMINADE A.-M., MAJORAL J.-P., LANNIBOIS-DREAN H.
Langmuir, 2004, **20**, pp. 9348-9353 (LCC-6830).

Determination of rate constants for the activation step in atom transfer radical polymerization using the stopped-flow technique
PINTAUER T., BRAUNECKER W., COLLANGE E., POLI R., MATYJASZEWSKI K.
Macromolecules, 2004, **37**, pp. 2679-2682 (LCC-7259).

TSC and broadband dielectric spectroscopy studies of the α relaxation in the phosphorus-containing dendrimers
DANTRAS E., DANDURAND J., LACABANNE C., CAMINADE A.-M., MAJORAL J.-P.
Macromolecules, 2004, **37**, pp. 2812-2816 (LCC-6738).

Les nanoparticules et les propriétés optiques
KAHN M.L., PAILLARS V.
Magazine Scientifique de l'Université Paul Sabatier, 2004, **2**, p 9 (LCC-7082).

Epidémiologie moléculaire du codon K76T du gène *Pfcr*t à partir de 305 cas de paludisme d'importation à *Plasmodium falciparum*
BERRY A., FABRE R., BENOIT-VICAL F., VESSIERE A., MAGNAVAL J.-F.
Med. Trop., 2004, **64**, 282 p. (LCC-7218).

Conductive thin films of q-(BETS)₄[Fe(CN)₅NO] on silicon electrode – new perspectives on charge transfer salts
PILIA L., MALFANT I., DE CARO D., SENOCQ F., ZWICK A., VALADE L.
New J. Chem., 2004, **28**, pp. 52-55 (LCC-6598).

Through space charge transfer and quadratic nonlinear optical (NLO) properties in alternated stacks of 2-amino-1,3-benzothiazole-ethylcoumarin-3-carboxylate charge transfer complexes : from the molecular to the bulk NLO response
LACROIX P.G., PADILLA-MARTINEZ I., LOPEZ SANDOVAL H., NAKATANI K.
New J. Chem., 2004, **28**, pp. 542-547 (LCC-7084).

Thioacylation reactions for the surface functionalization of phosphorus-containing dendrimers
MARCHAND P., GRIFFE L., CAMINADE A.-M., MAJORAL J.-P., DESTARAC M., LEISING F.
Org. Lett., 2004, **6**, pp. 1309-1312 (LCC-6735).

Does charge carrier dimensionality increase in mixed-valence salts of tetrathiafulvalene-terminated dendrimers
KANIBOLOTSKY A., ROQUET S., CARIOU M., LERICHE P., TURRIN C.O., DE BETTIGNIES R., CAMINADE A.-M., MAJORAL J.-P., KHODORKOVSKY V., GORGUES A.
Org. Lett., 2004, **6**, pp. 2109-2112 (LCC-6746).

Elusive niobium alkyl cations related to ethylene polymerization
PRITCHARD H.M.I., ETIENNE M., VENDIER L., MCGRADY J.E.
Organometallics, 2004, **23**, pp. 1203-1206 (LCC-6971).

The first platinum-catalyzed hydroamination of ethylene
BRUNET J.-J., CADENA M., CHU N.C., DIALLO O.S., JACOB K., MOTHES E.
Organometallics, 2004, **23**, pp. 1264-1268 (LCC-7007).

Orthometallated hydrido dihydrogen ruthenium complexes : dynamics, exchange couplings and reactivity
MATTHES J., GRUNDEMANN S., TONER A.J., GUARI Y., DONNADIEU B., SPANDL J., SABO-ETIENNE S., CLOT E., LIMBACH H.-H., CHAUDRET B.

Organometallics, 2004, **23**, pp. 1424-1433 (LCC-7020).

Zwitterionic, ring-borylated vanadium(III) complexes from [Cp₂VCO] and B(C₆F₅)₃

CHOUKROUN R., LORBER C., DONNADIEU B.

Organometallics, 2004, **23**, pp. 1434-1437 (LCC-6742).

Hydroamination of alkynes catalyzed by imido complexes of titanium and vanadium

LORBER C., CHOUKROUN R., VENDIER L.

Organometallics, 2004, **23**, pp. 1845-1850 (LCC-6734).

Catalytic isomerisation of cyanoolefins involved in the adiponitrile process. C-CN bond cleavage and structure of the nickel p-allyl cyanide complex Ni(η^3 -1-Me-C₃H₄)(CN)(dppb)

CHAUMONNOT A., LAMY F., SABO-ETIENNE S., DONNADIEU B., CHAUDRET B., BARTHELAT J.-C., GALLAND J.-C.

Organometallics, 2004, **23**, pp. 3363-3365 (LCC-7027).

Ferrocene-based pincer complexes of palladium: synthesis, structures, spectroscopic and electrochemical properties

KORIDZE A.A., KUKLIN S.A., SHELOUMOV A.M., DOLGUSHIN F.M., LAGUNOVA V.Y., PETUKHOVA I.I., EZERNITSKAYA M.G., PEREGUDOV A.S., PETROVSKII P.V., VORONTSOV E.V., BAYA M., POLI R.

Organometallics, 2004, **23**, pp. 4585-4593 (LCC-7266).

Mono- and homobimetallic vanadium complexes : borane adducts of vanada(IV)azirine complexes

CHOUKROUN R., LORBER C., VENDIER L., DONNADIEU B.

Organometallics, 2004, **23**, pp. 5488-5492 (LCC-6829).

Platinum bis(tricyclohexylphosphine) silyl hydride complexes

CHAN D., DUCKETT S.B., HEATH S.L., KHAZAL I.G., PERUTZ R.N., SABO-ETIENNE S., TIMMINS P.L.

Organometallics, 2004, **23**, pp. 5744-5756 (LCC-7041).

Detection by real-time PCR of the *Pfcr* K76T mutation, a molecular marker of chloroquine-resistant *Plasmodium falciparum* strains

VESSIERE A., BERRY A., FABRE R., BENOIT-VICAL F., MAGNAVAL J.-F.

Parasitol. Res., 2004, **93**, pp. 5-7 (LCC-6843).

Ring carbo-mers of "aromatic" heterocycles

LEPETIT C., PEYROU V., CHAUVIN R.

Phys. Chem. Chem. Phys., 2004, **6**, pp. 303-309 (LCC-6855).

Structural studies of bimetallic Co_xRh_{1-x} nanoparticles; size and composition effects

FROMEN M.-C., LECANTE P., CASANOVE M.-J., BAYLE GUILLEMAUD P., ZITOUN D., AMIENS C., CHAUDRET B., RESPAUD M., BENFIELD R.E.

Phys. Rev. B-Cond. Matt., 2004, **69**, pp. 235419/1-235416/ (LCC-7032).

Synthesis and structure of a new organometallic polyoxomolybdate, Cp*₂Mo₆O₁₇

COLLANGE E., METTEAU L., RICHARD P., POLI R.

Polyhedron, 2004, **23** (LCC-7256).

Mono and dinuclear hydrotris(3,5-dimethylpyrazolyl)borato tantalum complexes

ETIENNE M., HIERSO J.-C., DAFF P.J., DONNADIEU B., DAHAN F.

Polyhedron, 2004, **23**, pp. 379-383 (LCC-6970).

Metalla-phosphorus dendrimers : synthesis and properties

MAJORAL J.-P., CAMINADE A.-M., LAURENT R.

Polym. Prepr. (Am. Chem. Soc., Div. Polym. Chem.), 2004, **45**, 364 p. (LCC-6743).

Elementoorganic dendrimer characterization by Raman spectroscopy
FURER V.L., MAJORAL J.-P., CAMINADE A.-M., KAVOLENKO V.I.
Polymer, 2004, **45**, pp. 5889-5895 (LCC-6837).

Super-lattices of iron nanocubes synthesized from Fe[N(SiMe₃)₂]₂
DUMESTRE F., CHAUDRET B., AMIENS C., RENAUD P., FEJES P.
Science, 2004, **303**, pp. 821-823 (LCC-7028).

CO response of a nanostructured SnO₂ gas sensor doped with palladium and platinum
MENINI P., PARRET F., GUERRERO M., SOULANTICA K., ERADES L., MAISONNAT A.,
CHAUDRET B.
Sens. Actuat. B, 2004, **103**, pp. 111-114 (LCC-7019).

Fourier-transform infrared and Raman difference spectroscopy studies of the phosphorus-containing dendrimers
FURER V.L., VANDYUKOV A.E., MAJORAL J.-P., CAMINADE A.-M., KOVALENKO V.I.
Spectrochim. Acta, Part A, 2004, **60**, pp. 1649-1657 (LCC-6741).

Synthesis of dicyanopyridines
ROBLOU E., SASAKI I., PEZET F., AIT-HADDOU H., VINCENDEAU S.
Synth. Commun., 2004, **34**, pp. 3743-3749 (LCC-7093).

Intramolecular coupling of acetylenic groups of bis(alkynyl)phosphanes and silanes mediated by benzyne-zirconocene : a route to new mono- and tricyclic heterocycles
PIRIO N., BREDEAU S., DUPUIS L., SCHUTZ P., DONNADIEU B., IGAU A., MAJORAL J.-P.,
GUILLEMIN J.-C., MEUNIER P.
Tetrahedron, 2004, **60**, pp. 1317-1327 (LCC-6845).

Synthesis and stereochemical resolution of functional [5]pericyclines
MAURETTE L., TEDESCHI C., SERMOT E., SOLEILHAVOUP M., HUSSAIN F., DONNADIEU B.,
CHAUVIN R.
Tetrahedron, 2004, **60**, pp. 10077-10098 (LCC-6856).

A P-chirogenic βaminophosphine synthesis by diastereoselective reaction of the (alpha)-metallated PAMP-borane complex with benzaldimine
CAMUS J.-M., ANDRIEU J., RICHARD P., POLI R., DARCEL C., JUGE S.
Tetrahedron Asymmetry, 2004, **15**, pp. 2061-2065 (LCC-7265).

Enantiomerically pure disulfides : key compounds in kinetic resolution of chiral P^{III}-derivatives with stereogenic phosphorus
PERLIKOWSKA W., GOUYGOU M., MIKOLAJCZYK M., DARAN J.-C.
Tetrahedron Asymmetry, 2004, **15**, pp. 3519-3529 (LCC-6976).

A new way for the internal functionalization of dendrimers
SEVERAC M., LECLAIRE J., SUTRA P., CAMINADE A.-M., MAJORAL J.-P.
Tetrahedron Lett., 2004, **45**, pp. 3019-3022 (LCC-6731).

Molybdenum-tetracyanoethylene-based thin film magnets prepared by chemical vapor deposition : effect of deposition temperature on morphology
LAMOUREUX E., DE CARO D., VALADE L.
Thin Solid Films, 2004, **467**, pp. 93-97 (LCC-6832).

Gas phase catalysis by metal nanoparticles in nanoporous alumina membranes
KORMANN H.-P., SCHMID G., PELZER K., PHILIPPOT K., CHAUDRET B.
Z. Anorg. Allgem. Chem., 2004, **630**, pp. 1913-1918 (LCC-7060).