

## **Publications LCC 2003**

[Yb(H<sub>2</sub>O)<sub>8</sub>][Cd<sub>3</sub>Cl<sub>9</sub>(H<sub>2</sub>O)].6H<sub>2</sub>O

YAHYAOUI S., BEN HASSEN R., DONNADIEU B., DARAN J.-C., BEN SALAH A.  
*Acta Crystallogr., Sect. C*, 2003, **59**, pp. i109-i111 (LCC-6771).

Aquadichloro(2,9-dimethyl-1,10-phnanthroline-k<sup>2</sup>N, N')copper(II)

LEMOINE P., VIOSSAT B., DARAN J.-C.  
*Acta Crystallogr., Sect. E*, 2003, **59**, pp. m17-m19 (LCC-6769).

Hexacarbonyldicobalt addition across the CC (triple) bond of the alkynethiolate ligand in the cluster  
[Ru<sub>3</sub>(μ<sub>3</sub>, n<sup>2</sup>-CCSiMe<sub>3</sub>)(μ-SCCSiMe<sub>3</sub>)(CO)<sub>9</sub>]

DELGADO E., ISABEL ALCADE M., DONNADIEU B., HERNANDEZ E., SANCHEZ-NIEVES J.  
*Acta Crystallogr., Sect. E*, 2003, **59**, pp. m207-m209 (LCC-6772).

Cp<sub>2</sub>Ti(dddse) : a well known precursor for Se-containing donors

VINCENDEAU S., COLLIERE V., FAULMANN C.  
*Acta Crystallogr., Sect. E*, 2003, **59**, pp. m268-m270 (LCC-6511).

2,6-Bis(5,6-dicyclohexyl-1,2,4-triazin-3-yl)pyridine-dichloromethane-water (1/1/0.625)

ROBLOU E., AIT-HADDOU H., SASAKI I., DARAN J.-C.  
*Acta Crystallogr., Sect. E*, 2003, **59**, pp. 01175-01177 (LCC-6566).

Aqua (n<sup>4</sup>-1,5-cyclooctadiene) [1-(2-methoxy-ethoxymethyl)-3,5-dimethylpyrazole]rhodium(I)  
tetrafluoroborate

BOIXASSA A., MATHIEU R., LUGAN N., PONS J., ROS J.  
*Acta Crystallogr., Sect. E*, 2003, **E59**, pp. m658-m660 (LCC-6515).

Organometallic synthesis of size controlled polycrystalline ruthenium nanoparticles in the presence of alcohols

PELZER K., VIDONI O., PHILIPPOT K., COLLIERE V.  
*Adv. Funct. Mater.*, 2003, **13**, pp. 118-126 (LCC-6224).

Synthesis of Indium and Indium oxide nanoparticles from Indium cyclopentadienyl precursor and their application for gas sensing

SOULANTICA K., ERADES L., SAUVAN M., SENOCQ F., MAISONNAT A., CHAUDRET B.  
*Adv. Funct. Mater.*, 2003, **13**, pp. 553-557 (LCC-6679).

Unprecedented crystalline super-lattices of monodisperse cobalt nanorods

DUMESTRE F., CHAUDRET B., AMIENS C., RESPAUD M., FEJES P., RENAUD P., ZURCHER P.  
*Angew. Chem. (Int. Ed. Engl.)*, 2003, **42** (LCC-6702).

An unprecedented homochiral mixed-valence spin-crossover compound

SUNATSUKI Y., IKUTA Y., MATSUMOTO N., OHTA H., KOJIMA M., IJIMA S., HAYAMI S., MAEDA Y., KAIZAKI S., DAHAN F., TUCHAGUES J.-P.  
*Angew. Chem. (Int. Ed. Engl.)*, 2003, **42**, pp. 1614-1618 (LCC-6555).

Dendrimers design : how to circumvent the dilemma of a reduction of steps or an increase of function multiplicity

MARAVAL V., CAMINADE A.-M., MAJORAL J.-P., BLAIS J.-C.  
*Angew. Chem. (Int. Ed. Engl.)*, 2003, **42**, pp. 1822-1826 (LCC-6512).

Spontaneous formation of ordered 3D super lattices of nanocrystals from polydisperse colloidal solutions

SOULANTICA K., MAISONNAT A., FROMEN M.-C., CASANOVE M.-J., CHAUDRET B.  
*Angew. Chem. (Int. Ed. Engl.)*, 2003, **42**, pp. 1945-1949 (LCC-6678).

Metalla-Azaspirophosphanes: Synthesis, Structure and Reactivity

OWSIANIK K., ZABLOCKA M., DONNADIEU B., MAJORAL J.-P.  
*Angew. Chem. (Int. Ed. Engl.)*, 2003, **42**, pp. 2176-2179 (LCC-6616).

Room-temperature organometallic synthesis of soluble and chrystalline ZnO nanoparticles of controlled size and shape

MONGE M.A., KAHN M.L., MAISONNAT A., CHAUDRET B.

*Angew. Chem. (Int. Ed. Engl.)*, 2003, **42**, pp. 5321-5324 (LCC-6538).

Quantitative magnetization measurements on nanometer diameter ferromagnetic cobalt wires using electron holography

SNOECK E., DUNIN-BORKOWSKI R.E., DUMESTRE F., RENAUD P., AMIENS C., CHAUDRET B., ZURCHER P.

*Appl. Phys. Lett.*, 2003, **82**, pp. 88-90 (LCC-6332).

Synthesis and antimalarial activity of 2-methoxyprop-2-yl peroxides derivatives

COINTEAUX L., BERRIEN J. F., PEYROU V., PROVOT O., CICERON L., DANIS M., ROBERT A., MEUNIER B., MAYRARGUE J.

*Bioorg. Med. Chem. Lett.*, 2003, **13**, pp. 75-77 (LCC-6160).

Alkylation of manganese (II) tetraphenylporphyrin by antimalarial fluorinated artemisinin derivatives

RODRIGUEZ M., BONNET-DELPON D., BEGUE J.-P., ROBERT A., MEUNIER B.

*Bioorg. Med. Chem. Lett.*, 2003, **13**, pp. 1059-1062 (LCC-6318).

The spin-crossover phenomenon : towards molecular memories

BOUSSEKSOU A., MOLNAR G.

*C. R. Chimie*, 2003, **6** (LCC-6663).

Synhtesis and biological evaluation of a new trioxaquine containing a trioxane moiety obtained by halogenocyclisation of a hemiperoxyacetal

DECHY-CABARET O., BENOIT-VICAL F., ROBERT A., MAGNAVAL J.-F., SEGUELA J.-P., MEUNIER B.

*C. R. Chimie*, 2003, **6**, pp. 153-160 (LCC-6509).

Role of ethylenediamine in the preparation of alumina-supported Ni catalysts from  $[\text{Ni}(\text{en})_2(\text{H}_2\text{O})_2](\text{NO}_3)_2$  : from solution properties to nickel particles

NEGRIER F., MARCEAU E., CHE M., DE CARO D.

*C. R. Chimie*, 2003, **6**, pp. 231-240 (LCC-6786).

Triggering a spin-crossover phenomenon in  $\text{Fe}(\text{phen})_2(\text{NCS})_2$  by a pulse of pressure : The pressure has a mirror effect of the magnetic field

BOUSSEKSOU A., MOLNAR G., TUCHAGUES J.-P., MENENDEZ N., CODJOVI E., VARRET F.

*C. R. Chimie*, 2003, **6**, pp. 329-335 (LCC-6549).

The Ising-like model applied to switchable inorganic solids : discussion of the static properties

VARRET F., SALUNKE S.A., BOUKHEDDADEN K., BOUSSEKSOU A., CODJOVI E., ENACHESCU C., LINARES J.

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Phosphorus dendrimers : from synthesis to applications.

CAMINADE A.-M., MARAVAL V., LAURENT R., TURRIN C.O., SUTRA P., LECLAIRE J., GRIFFE L., MARCHAND P., BAUDOIN-DEHOUC C., REBOUT C., MAJORAL J.-P.

*C. R. Chimie*, 2003, **6**, pp. 791-801 (LCC-6520).

Organometallic approach to the synthesis and surface reactivity of noble metal nanoparticles

PHILIPPOT K., CHAUDRET B.

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Electrocatalytic dimerisation of non-heteroatom-substituted manganese alkynylcarbene complexes

ORTIN Y., SOURNIA-SAQUET A., LUGAN N., MATHIEU R.

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Mechanistic studies on ethylene silylation with chlorosilanes catalysed by ruthenium complexes

LACHAIZE S., SABO-ETIENNE S., DONNADIEU B., CHAUDRET B.

*Chem. Commun.*, 2003, pp. 214-215 (LCC-6692).

An unprecedented a-C–C agostic interaction in a cyclopropyl tris(pyrazolyl)boratoniobium complex  
JAFFART J., ETIENNE M., REINHOLD M., MCGRADY J.E., MASERAS F.

*Chem. Commun.*, 2003, pp. 876-877 (LCC-6640).

Chirality control in 2,2'-biphosphole ligand leading to enantiopure Pd complex  
ORTEGA C., GOUYGOU M., DARAN J.-C.

*Chem. Commun.*, 2003, pp. 1154-1155 (LCC-6548).

New insight into a convenient base-promoted synthesis of Ru<sub>3</sub>(CO)<sub>12</sub>

FAURE M., SACCAVINI C., LAVIGNE G.

*Chem. Commun.*, 2003, pp. 1578-1579 (LCC-6764).

A rational route leading to 3d-3d'-4f heterospin systems : self-assembly processes involving heterodinuclear 3d-4f complexes and hexacyanometallates

GHEORGE R., ANDRUH M., COSTES J.-P., DONNADIEU B.

*Chem. Commun.*, 2003, pp. 2778-2779 (LCC-6554).

Lanthanide complexes derived from (R)-1,1'-binaphthyl-2,2'-bis(neopentylamine)-{Li(THF)<sub>4</sub>}{Ln[(R)-C<sub>20</sub>H<sub>12</sub>N<sub>2</sub>(C<sub>10</sub>H<sub>22</sub>)<sub>2</sub>]<sub>2</sub>} (Ln= Sm, Yb)- novel catalysts for enantioselective intramolecular hydroamination

COLLIN J., DARAN J.-C., SCHULZ E., TRIFONOV A.

*Chem. Commun.*, 2003, pp. 3048-3049 (LCC-6753).

<sup>1</sup>H and <sup>13</sup>C NMR characterization of hemiamidal isoniazid-NAD(H) adducts as possible inhibitors of InhA reductase of Mycobacterium tuberculosis

BROUSSY S., COPPEL Y., NGUYEN M., BERNADOU J., MEUNIER B.

*Chem. Eur. J.*, 2003, **9**, pp. 2034-2038 (LCC-6510).

The first linear multiphosphazene having five different types of side groups and its use as the core of a dendrimeric species

MAGRO G., DONNADIEU B., CAMINADE A.-M., MAJORAL J.-P.

*Chem. Eur. J.*, 2003, **9**, pp. 2151-2159 (LCC-6513).

Aromaticity and electron affinity of carbo<sup>k</sup>-[3]radialenes, k=0, 1, 2

LEPETIT C., BRONSTED NIELSEN M., DIEDERICH F., CHAUVIN R.

*Chem. Eur. J.*, 2003, **9**, pp. 5056-5066 (LCC-6783).

Synthesis and crystal structure of anionic zirconium (II) intermediate for carbon-carbon coupling : Li [Cp<sub>2</sub>Zr(CCph) (η<sup>2</sup> : 1,2-PhC<sub>2</sub>CCPh)]

ZHAO J.S., GU A.P., HE S.-Y., CHOUKROUN R., VALADE L., CASSOUX P.

*Chem. J. Chin. Univ.*, 2003, **24**, pp. 580-583 (LCC-7166).

Spin crossover iron (II) coordination polymer with zigzag chain structure

MATOUZENKO G.S., MOLNAR G., BREFUEL N., PERRIN M., BOUSSEKSOU A., BORSHCH S.A.

*Chem. Mater.*, 2003, **15**, pp. 550-556 (LCC-6553).

In situ formation of gold nanoparticles within thiol functionalised HMS-C<sub>16</sub> and SBA-15 type materials via an organometallic two-step approach

GUARI Y., THIEULEUX C., MEHDI A., REYE C., CORRIU R.J.P., GOMEZ-GALLARDO S., PHILIPPOT K., CHAUDRET B.

*Chem. Mater.*, 2003, **15**, pp. 2017-2024 (LCC-6693).

The spin-crossover phenomenon in the solid state: Do domains play a role? A micro-Raman study

MOLNAR G., BOUSSEKSOU A., ZWICK A., MCGARVEY J.J.

*Chem. Phys. Lett.*, 2003, **367**, pp. 593-598 (LCC-6657).

Synthesis and structure of a two-dimensional cyano-bridged coordination polymer [Cu(cyclam)]<sub>2</sub>[Mo(CN)<sub>8</sub>·10.5H<sub>2</sub>O (cyclam = 1, 4, 8, 11-tetraazacyclodecane)

LARIONOVA J., CLERAC R., DONNADIEU B., WILLEMEN S., GUERIN C.

*Cryst. Growth Des.*, 2003, **3**, pp. 267-272 (LCC-6787).

Fluorinated dendrimers

CAMINADE A.-M., TURRIN C.O., SUTRA P., MAJORAL J.-P.  
*Curr. Opin. Colloid Interf. Sci.*, 2003, **8**, pp. 282-295 (LCC-6499).

Coordination of Gadolinium(III) ions with a Preformed m-oxo diiron(III) complex: Structural and Magnetic Data

COSTES J.-P., DAHAN F., DUMESTRE F., CLEMENTE-JUAN J.M., GARCIA-TOJAL J., TUCHAGUES J.-P.  
*Dalton Trans.*, 2003, pp. 464-468 (LCC-6221).

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COSTES J.-P., CLEMENTE-JUAN J.M., DAHAN F., NICODEME F.  
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SOULA B., GALIBERT A.-M., DONNADIEU B., FABRE P.-L.  
*Dalton Trans.*, 2003, pp. 2449-2456 (LCC-6788).

Use of the di-2-pyridyl ketone/3,5-di-tert-butylcatechol "blend" in iron(III) chemistry : a cationic tetranuclear cluster and an anionic trinuclear complex

BOUDALIS A.K., DAHAN F., BOUSSEKSOU A., TUCHAGUES J.-P., PERLEPES S.P.  
*Dalton Trans.*, 2003, pp. 3411-3418 (LCC-6547).

Reaction of a manganese(III)-Schiff base complex with gadolinium nitrate : synthesis, structure and magnetic properties of an ionic species  $[LMn(H_2O)_2]_2[Gd(NO_3)_5(MeOH)]$  ( $H_2L=1,3$ -bis((3-methoxysalicylidene)amino)-2,2'-dimethylpropane)

COSTES J.-P., DAHAN F., DONNADIEU B., FERNANDEZ-GARCIA M.I., RODRIGUEZ-DOUTON M.-J.  
*Dalton Trans.*, 2003, pp. 3776-3779 (LCC-6518).

C-H and C-C agostic interactions in cycloalkyl tris(pyrazolyl)botatoniobium complexes

JAFFART J., COLE M.L., ETIENNE M., REINHOLD M., MCGRADY J.E., MASERAS F.  
*Dalton Trans.*, 2003, pp. 4057-4064 (LCC-6642).

Redistribution at silicon by ruthenium complexes. Bonding mode of the bridging silanes in  $Ru_2H_4(\mu-n^2:n^2:n^2:n^2-SiH_4)(PCy_3)_4$  and  $Ru_2H_2(\mu-n^2:n^2-H_2Si(OMe)_2)_3(PCy_3)_2$

BEN SAID R., HUSSEIN K., BARTHELAT J.-C., ATHEAUX I., SABO-ETIENNE S., GRELLIER M., DONNADIEU B., CHAUDRET B.  
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CASELLAS H., VALADE L., DE CARO D., CASSOUX P., VILLAIN F., GATTESCHI D.  
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The  $n^5$ -(o-P, p-Arene) chelating HMOP ligand in an optically and catalytically active rhodium(I) complex

SOLEILHAVOUP M., VIAU L., COMMENGES G., LEPETIT C., CHAUVIN R.  
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Coordination modes in a tridentate NNS (Thiosemicarbazonato)copper(II) system containing oxygen-donor coligands - Structures of  $[(Cu(L)(X))_2]$  (X = formate, propionate, nitrite)

GOMEZ-SAIZ P., GARCIA-TOJAL J., MENDIA A., DONNADIEU B., LEZAMA L., PIZARRO J.L., ARRIORTUA M.I., ROJO T.  
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PITIE M., BOLDRON C., GORNITZKA H., HEMMERT C., DONNADIEU B., MEUNIER B.

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Reactivity of  $B(C_6F_5)_3$  with oxovanadium(V) complexes  $VO(L)_3$  ( $L = OCH_2CF_3, NEt_2$ ) : formation of the organometallic vanadium(V) complex  $[VO(\mu-OCH_2CF_3)(OCH_2CF_3)(C_6F_5)]_2$  and the Lewis adduct  $[(Et_2N)_3VO.B(C_6F_5)_3]$

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

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Synthesis, X-ray structure and properties of a trinuclear mixed valence state  $Co^{III}-Co^{II}-Co^{III}$  complex with carboxamido N and sulfinato S donors

RAT M., ALVES R., TOMAS A., FRAPART Y., TUCHAGUES J.-P., ARTAUD I.

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Dynamic behavior of N-metalated  $\beta$ -enaminoimine complex - Preparation of N-phosphanylenamine and  $\beta$ -enaminoimine derivatives

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Crystal structures and intercalation reactions of three-dimensional coordination polymers  $[M(H_2O)_2]_2[Mo(CN)_8].4H_2O$  ( $M = Co, Mn$ )

WILLEMINS S., LARIONOVA J., CLERAC R., DONNADIEU B., HENNER B., LE GOFF X.F.

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Synthesis, crystal structure and electrical properties of novel radical cation salts of iodine-substituted TTF-derived donors with the nitroprusside anion exhibiting strong  $-I...NC-$  interactions

UEDA K., SUGIMOTO T., FAULMANN C., CASSOUX P.

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Chiral [(dialkylamino)methyl](phospholy)ferrocene ligands as a new class of 1,2-disubstituted ferrocene ligands

MOURGUES S., SERRA D., LAMY F., VINCEDEAU S., DARAN J.-C., MANOURY E., GOUYGOU M.

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Ferromagnetism in  $[Mn(Cp^*)_2]^+$ -derived complexes : the "miraculous" stacking in  $[Mn(Cp^*)_2][Ni(dmit)_2]$

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New rhodium(I) complexes with hemilabile amphiphilic phosphanes

VALLS E., SUADES J., MATHIEU R., LUGAN N.

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A straightforward synthesis of N-functionalized  $\beta$ -diimines

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Regio- and stereoselective double addition of anionic C-nucleophiles to cobalt-stabilized acetylenedicarbonyl

SUI-SENG C., SOLEILHAVOUP M., MAURETTE L., TEDESCHI C., DONNADIEU B., CHAUVIN R.

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SOLEILHAVOUP M., MAURETTE L., LAMIRAND C., DONNADIEU B., MCGLINCHEY M.J., CHAUVIN R.

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Synthesis and crystal structure of unprecedented phosphine adducts of  $\delta$ -aryl imido-vanadium(IV) complexes

LORBER C., CHOUKROUN R., DONNADIEU B.

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Synthesis, x-ray crystal structure, redox and electronic properties of iron(III)-polyimidazole complexes relevant to the metal sites of iron proteins

CHAUVIN A.S., FRAPART Y., VAISSERMANN J., DONNADIEU B., TUCHAGUES J.-P., CHOTTARD J.-C., LI Y.

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Ruthenium dihydrogen complexes wide bite angle Diphosphines

ALMEIDA LENERO K., KRANENBURG M., GUARI Y., KAMER P.C.J., VAN LEEUWEN P.W.N.M., SABO-ETIENNE S., CHAUDRET B.

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A novel tetranuclear copper(II) complex with alternating  $\mu_1,1$ -azido and phenoxo bridges : synthesis, structure and magnetic properties of  $[\text{Cu}_4(\mu\text{-salen})_2(\mu_{1,1}\text{-N}_3)_2(\text{N}_3)_2]$

KONER S., SAHA S., OKAMOTO K.-I., TUCHAGUES J.-P.

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Isolation and structural characterization of anionic and neutral compounds resulting from the oxidative addition of HI or  $\text{CH}_3\text{I}$  to  $[\text{Ir}_2(\text{CO})_2]$ .

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Structure-based description of a step-by-step synthesis of homo and heterodinuclear (4f, 4f') lanthanide complexes

COSTES J.-P., DAHAN F., NICODEME F.

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A new family of spin crossover complexes with a tripod ligand containing three imidazoles : synthesis, characterization and magnetic properties of  $[\text{Fe}^{\text{II}}\text{H}_3\text{LMe}](\text{NO}_3)_2 \cdot 1.5\text{H}_2\text{O}$ ,  $[\text{Fe}^{\text{III}}\text{LMe}]_3 \cdot 5\text{H}_2\text{O}$ ,  $[\text{Fe}^{\text{II}}\text{H}_3\text{LMe}][\text{Fe}^{\text{II}}\text{LMe}]\text{NO}_3$  and  $[\text{Fe}^{\text{II}}\text{H}_3\text{LMe}][\text{Fe}^{\text{II}}\text{LMe}](\text{NO}_3)_2$  ( $\text{H}_3\text{LMe}$  = tris[2-(((2-methylimidazol-4-yl)methylidene)amino)ethyl]amine)

IKUTA Y., OOIDEMIZU M., YAMAHATA Y., YAMADA M., OSA S., MATSUMOTO N., IJIMA S., SUNATSUKI Y., MASAOKI K., DAHAN F., TUCHAGUES J.-P.

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Vanadium(V) complexes of a chelating diatomic [ONNO]-type amine bis(phenolate) ligand : synthesis and solid state and solution structures

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

*Inorg. Chem.*, 2003, **42**, pp. 7839-7845 (LCC-6793).

Interlayer interaction of two-dimensional layered spin crossover complexes  $[\text{Fe}^{\text{II}}\text{H}_3\text{LMe}][\text{Fe}^{\text{II}}\text{LMe}]\text{X}$  ( $\text{X}^-$  =  $\text{ClO}_4^-$ ,  $\text{BF}_4^-$ ,  $\text{PF}_6^-$ ,  $\text{AsF}_6^-$ , and  $\text{SbF}_6^-$ ;  $\text{H}_3\text{LMe}$  = Tris[2-(((2-methylimidazol-4-yl)methylidene)amino)ethyl]amine)

YAMADA M., OOIDEMIZU M., IKUTA Y., OSA S., MATSUMOTO N., IJIMA S., KOJIMA M., DAHAN F., TUCHAGUES J.-P.

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Chemisorption on Nickel nanoparticles of various shapes: influence on magnetism

CORDENTE N., AMIENS C., CHAUDRET B., RESPAUD M., SENOCQ F., CASANOVE M.-J.

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DNA cleavage studies of mononuclear and dinuclear copper(II) complexes with benzothiazolesulfonamide ligands

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Theoretical study of the interaction between a high-valent manganese porphyrin oxyl-(hydroxo)-Mn(IV)-TMPyP and double-stranded DNA

ARNAUD P., ZAKRZEWSKA K., MEUNIER B.

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