

Liste des publications

1. Interlacing molecular threads on transition metals

J.-C. Chambron, C. O. Dietrich-Buchecker, C. Hemmert, A. K. Khemiss, D. Mitchel and J.-P. Sauvage, *Pure and Applied Chem.*, **1990**, 62, 1027-1034.

2. Synthesis of dicopper [3]-catenates and [3]-catenands by acetylenic oxidative coupling. Preparation and study of corresponding homodimetallic [3]-catenates (Ag^+ , Zn^{2+} , Co^{2+} , and Ni^{2+})

C. O. Dietrich-Buchecker, C. Hemmert, A. K. Khemiss and J.-P. Sauvage, *J. Am. Chem. Soc.*, **1990**, 112, 8002-8008.

3. Disymmetrical dimetallic [3]-catenates : long range electrostatic interaction between the metal centres through stacked aromatic ligands

C. O. Dietrich-Buchecker, C. Hemmert and J.-P. Sauvage, *New J. Chem.*, **1990**, 14, 603-605.

4. Excited-state properties in supramolecular systems. Luminescence and intercomponent interactions in a 3-catenand and some 3-catenates

N. Armaroli, V. Balzani, F. Barigelletti, L. De Cola, J.-P. Sauvage and C. Hemmert, *J. Am. Chem. Soc.*, **1991**, 113, 4033-4035.

5. Supramolecular photochemistry and photophysics. A [3]-catenand and its mononuclear and homo- and heterodinuclear [3]-catenates

N. Armaroli, V. Balzani, F. Barigelletti, L. De Cola, L. Flamigni, J.-P. Sauvage and C. Hemmert, *J. Am. Chem. Soc.*, **1994**, 116, 5211-5217.

6. Multi-protonation of a [3]-catenand and a mono-copper [3]-catenate : absorption spectra and luminescence properties

N. Armaroli, V. Balzani, L. De Cola, C. Hemmert and J.-P. Sauvage, *New J. Chem.*, **1994**, 18, 775-782.

7. Manganese complexes of 1,3-bis(3-nitrosalicylideneamino)propan-2-ol. Structure and magnetic and electrochemical properties

Z. Y. Zhang, C. Brouca-Cabarrecq, C. Hemmert, F. Dahan and J.-P. Tuchagues, *J. Chem. Soc., Dalt. Trans.*, **1995**, 1453-1459.

8. Pentadentate dinucleating ligands affording bis (m-carboxylato-*O,O'*) diiron(II) complexes

C. Hemmert, M. Verelst and J.-P. Tuchagues, *J. Chem. Soc., Chem. Commun.*, **1996**, 617-618.

9. Synthesis of bis(di-2-pyridylmethyl)amine (BDPMA) by a novel one-pot multi-step reductive amination with molecular sieves and Zn/*i*-PrOH

M. Renz, C. Hemmert and B. Meunier, *Eur. J. Org. Chem.*, **1998**, 1271-1273.

10. Isolation and characterization of an oxidative degradation product of a polypyridine ligand

M. Renz, C. Hemmert, B. Donnadieu and B. Meunier, *J. Chem. Soc., Chem. Commun.*, **1998**, 1634-1635.

11. Oxidative degradation of chlorinated phenols catalyzed by the first non-heme iron (III) complex

C. Hemmert, M. Renz and B. Meunier, *J. Mol. Cat. A*, 137, **1999**, 205-212.

12. Preparation and crystal structures of manganese, iron and cobalt complexes of the bis[di(2-pyridyl)methyl]amine (BDPMA) ligand and its oxidative degradation product 1,3,3-tris(2-pyridyl)-3*H*-imidazo[1,5-*a*]pyridin-4-ium (TPIP); origin of the BDPMA fragility

C. Hemmert, M. Renz, H. Gornitzka, S. Soulet and B. Meunier, *Chem. Eur. J.*, **1999**, 5, 1766-1773.

13. Influence of the anion of Fe(III) salts on the product distribution in the oxidative degradation of a tetrapyridyl ligand

M. Renz, C. Hemmert, H. Gornitzka and B. Meunier, *New. J. Chem.*, **1999**, 23, 773-776.

14. Synthesis, characterization and crystal structures of copper(II) complexes containing multidentate polypyridine ligands
C. Hemmert, M. Renz, H. Gornitzka and B. Meunier, *J. Chem. Soc., Dalton Trans.*, **1999**, 3989-3994.
15. Transmetalation reaction of dimethylzinc and (bis(2-pyridyl)methyl)lithium
H. Gornitzka, C. Hemmert, G. Bertrand, M. Pfeiffer and D. Stalke, *Organometallics*, **2000**, *19*, 112-114.
16. Second generation of a polypyridine ligand to mimic enzymes containing non-heme iron centers
C. Hemmert, A. P. Maestrin, M. Renz, H. Gornitzka and B. Meunier, *C. R. Acad. Sci. Paris*, **2000**, *IIC*, 735-741.
17. Unprecedented amido-bridged dinuclear mixed-valence cobalt complexes : first structure of a μ -OMe dinuclear Co(II)/Co(III) complex
C. Hemmert, H. Gornitzka and B. Meunier, *New J. Chem.*, **2000**, *24*, 949-951.
18. Preparation, characterization and crystal structures of manganese(II), iron (III) and copper(II) complexes of the bis-[di-1,1-(2-pyridyl)ethyl]amine (BDPEA) ligand; evaluation of their DNA cleavage activities
C. Hemmert, M. Pitié, M. Renz, H. Gornitzka, S. Soulet and B. Meunier, *J. Biol. Inorg. Chem.*, **2001**, *6*, 14-22.
19. DNA cleavage by copper complexes of 2- and 3-Clip-Phen derivatives
M. Pitié, C. Boldron, H. Gornitzka, C. Hemmert, B. Donnadieu and B. Meunier, *Eur. J. Inorg. Chem.*, **2003**, 528-540.
20. Synthesis and activity of macrocyclized chiral Mn(III) Schiff base epoxidation catalysts
A. Martinez, C. Hemmert, H. Gornitzka and B. Meunier, *J. Organomet. Chem.*, **2005**, *690*, 2163-2171.
21. A macrocyclic chiral manganese(III) Schiff base complex as an efficient catalyst for the asymmetric epoxidation of olefins
A. Martinez, C. Hemmert and B. Meunier, *J. Catal.*, **2005**, *234*, 250-255.
22. Synthesis of new macrocyclic chiral manganese(III) Schiff bases as catalysts for asymmetric epoxidation
A. Martinez, C. Hemmert, C. Loup, G. Barré and B. Meunier, *J. Org. Chem.*, **2006**, *71*, 1449-1457.
23. *N*-Functionalised heterocyclic dicarbene complexes of silver: synthesis and structural studies
F. Jean Baptiste dit Dominique, H. Gornitzka, C. Hemmert, *Journal of Organometallic Chemistry*, **2008**, *693*, 579-583.
24. Dinuclear gold(I) and gold(III) complexes of bridging functionalised bis(*N*-heterocyclic carbene) ligands: synthesis, structural, spectroscopic and electrochemical characterizations
F. Jean Baptiste dit Dominique, H. Gornitzka, A. Sournia-Saquet, C. Hemmert, *Dalton Trans.*, **2009**, 340-352.

Brevets

1. Composition containing catalysts for bleaching laundered fabrics with atmospheric oxygen.
R. F. Carina, B. L. Feringa, R. Hage, C. Hemmert, J. H. Koek, R. M. Lacrois, B. Meunier, M. Renz, J. G. Roelfes, E. P. Schude, R. Thijssen, R. S. Twisker, C. Zondervan.
Demande de brevet européen (UNILEVER), avril 2000 (C 4002), accordée en septembre 2001 (n° 00918830.1-2108).
Extensions internationales via PCT WO 0060044 A1 20001012.
2. Complexes chiraux macrocycliques utilisables comme catalyseurs.
A. Martinez, C. Hemmert, B. Meunier.
Demande de brevet français n° 04 09971, déposée le 21 septembre 2004.