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PROFIL

Inorganic Chemistry Full Professor at Université de Strasbourg.
Born in 1967. Two children : Paul, 1993 and Estelle, 2010.

PRESENT SITUATION

- 1^{er} class Full Professor at Strasbourg University. All lessons can be download from the laboratory Web Site.
- Head of DECOMET laboratory (Densité Electronique et COordination METallique)
- Head of 'Chimie & Société' commission in Alsace.
- Research topics : Inorganic synthesis, molecular magnetism, Crystal chemistry, photochemistry, 240 publications. 3800 Citations. H-index : 32.

DIPLOMAS

- 09/1990 - 07/1991 : Boursier DEA
- 08/1991 - 08/1992 : Service National
- 09/1992 - 08/1993 : Boursier M.R.E. et Moniteur de l'Enseignement Supérieur
- 09/1993 - 08/1994 : Attaché temporaire d'enseignement et de recherche
- 09/1994 - 08/2000 : Maître de conférence au Laboratoire de Chimie du Solide
- 1994 : Doctorat de l'Université de NANCY I (18/02/1994)
Mention Sciences et Génie des Matériaux
- 1999 : Habilitation à diriger des recherches (1/04/1999)

Title :

« Propriétés structurales et magnétiques de composés intermétalliques RTX , RT_2X_2 et RT_6X_6 ;
 $R=Mg, Ca, Ba, Sc, Y, La$ et Ln ; $T =$ métal de transition ; $X = Si, Ge, Sn$ »

EXPERIENCES

- 09/1994 - 08/2000 : Maître de conférence au Laboratoire de Chimie du Solide Minéral de la faculté des Sciences Henri Poincaré NANCY I, UMR 7555
- Depuis le 01/09/2000 : Professeur des universités à l'Université Louis Pasteur de Strasbourg.
- Depuis le 1er septembre 2001 : Créateur et directeur du laboratoire DECOMET, UMR 7177 Université Louis Pasteur Strasbourg.

OTHER ACTIVITIES

Activités transdisciplinaires dans le cadre du Centre International de Recherches et Etudes Transdisciplinaires (CIRET, Paris, membre du Conseil d'Administration avec Edgar Morin) et de la commission Chimie et Société (Responsable pour l'Est de la France). Créateur et animateur des Cafés Essentiels à Strasbourg. Président de l'association ATA. Peinture abstraite.

PUBLICATIONS - 2009/2012

Stable and Highly Persistent Quinoxaline-Centered Metalloorganic Radical Anions: Preparation, Structural, Spectroscopic, and Computational Investigations.

CHOUA, S; DJUKIC, J-P; DALLERY, J; BIEBER, A; WELTER, R; GISSELBRECHT, J-P; TUREK, P; RICARD, L.

Inorganic Chemistry (2009), 48(1), 149-163.

Synthesis and structure of V(V) and Mn(III) NHC complexes supported a tridentate bis-aryloxy-N-heterocyclic carbene ligand

S.BELLEMIN-LAPONNAZ, R. WELTER, L. BRELOT, S. DAGORNE

Journal of Organometallic chemistry (2009), 694, 604-606.

(3-Anilino-1-phenyliminothioureato)chloridodimethyltin(IV)

D. DELGADO, A. JORGE, C. OKIO, R. WELTER

Acta Crystallographica, Section E: Structure Reports Online (2009), E65(4), m426.

Regiospecific Intramolecular O-Demethylation of the Ligand by Action of Molecular Dioxygen on a Ferrous Complex: Versatile Coordination Chemistry of Dioxygen in FeCl₂ Complexes with (2,3-Dimethoxyphenyl) α -Substituted Tripods in the tris(2-Pyridylmethyl)amine Series

L. BENHAMOU, A. MACHKOUR, O. ROTTHAUS, M. LACHKAR, R. WELTER, D. MANDON.

Inorganic Chemistry (2009), 48(11), 4777-4786.

Spontaneous Reduction of High-Spin Fe^{III} Complexes Supported by Benzoic Hydrazide Derivative Ligands.

N. BOUSLIMANI, N. CLÉMENT, C. TOUSSAINT, S. HAMEURY, P. TUREK, S. CHOUA, S. DAGORNE, D. MARTEL^c AND R. WELTER

European Journal of Inorganic Chemistry, (2009), 3734-3741

Synthesis and Structure of Neutral and Cationic Aluminum Complexes Supported by Bidentate O,P-phosphinophenolate Ligands and Their Reactivity with Propylene Oxide and ϵ -caprolactone

M. HADDAD, M. LAGHZAOU, R. WELTER AND S. DAGORNE

Organometallics, (2009), 28, 4584-4592

Synthesis, characterization, crystal structure and theoretical calculations of an organotin(IV) complex with dithizone

DELGADO, JORGE A.; OKIO, COCO K. Y. A.; WELTER, RICHARD

Inorganic Chemistry Communications (2009), 12(10), 1074-1076.

Di- and trinuclear phosphido-bridged platinum complexes. Crystal structures of [Pt{CH₂=CHC(O)OMe}(PPh₃)₂], trans-[Pt₂(μ -PPh₂)₂(PPh₃)₂] and cis,cis,cis-[Pt₃(μ -I)₂(μ -PPh₂)₂Cl_{0.5}I_{1.5}(PPh₃)₂]

R. BENDER, C OKIO, R. WELTER AND P. BRAUNSTEIN

Dalton Trans. (2009), (25), 4901-4907.

Novel Neutral and Cationic Aluminium Alkyl Complexes Supported by Potentially Tridentate O,N,L-Type Aminophenolate Ligands and Their Use in Propylene Oxide Polymerization'

ISSENHUTH J.-T., PLUVINAGE J., WELTER R., BELLEMIN-LAPONNAZ S., DAGORNE S.

Eur. J. Inorg. Chem. (2009), 31, 4701-4709

Radical Anions of Metallo-organic Diazines: Structural, Spectroscopic, and Theoretical Investigation of a Pyrazyl Radical Anion

CHOUA, SYLVIE; DJUKIC, JEAN-PIERRE; DALLERY, JEROME; WELTER, RICHARD; TUREK, PHILIPPE; RICARD, LOUIS

Organometallics, (2009), 21, 6194-6200

Calixarene-monophosphines as supramolecular chelators
SAMENI, SOHEILA; LEJEUNE, MANUEL; JEUNESSE, CATHERINE; MATT, DOMINIQUE; WELTER, RICHARD
Dalton Transactions (2009), (38), 7912-7923.

Two-Dimensional Triangular and Square Heterometallic Clusters: Influence of the Closed-Shell d10 Electronic Configuration
SABRINA SCULFORT, PIERRE CROIZAT, ABDELATIF MESSAOUDI, MARC BENARD, MARIE-MADELEINE ROHMER, RICHARD WELTER, AND PIERRE BRAUNSTEIN
Angewandte Chemie, International Edition (2009), 48, 9663-9667.

Synthesis of functional heterometallic complexes and clusters containing molybdenum and palladium or platinum, their self-assembly on gold surfaces and X-ray photoelectron spectroscopic studies
CROIZAT PIERRE, MUELLER FRANK, MANTZ HUBERT, ENGLISCH ANDREAS, WELTER RICHARD, HUEFNER STEFAN AND BRAUNSTEIN PIERRE.
CR Chimie (2009), 12, 1228-1247

A convenient method for preparing rigid-core ionic liquid crystals
FOUCHET JULIEN, DOUCE LAURENT, HEINRICH BENOIT, WELTER RICHARD, LOUATI ALAIN
Beilstein Journal of Organic Chemistry, (2009), 5, 51.

Brevet : Method and device for producing and storing energy, WO 2009/130562 A1.
WELTER RICHARD

2010

Stability, Molecular structures and Magnetic Properties of dinuclear iron complexes Supported by benzoic hydrazide derivative ligands.
N BOUSLIMANI, N. CLÉMENT, G. ROGEZ, P. TUREK, S. CHOUA, S. DAGORNE AND R. WELTER
Inorganica Chimica Acta, (2010), 363, 213-220.

Cobalt Complexes Supported by Salicylichydrazono Derivative Ligands and Various Coordination Solvents
C. TOUSSAINT, N. CLÉMENT, C. BEGHIDJA AND R. WELTER
CR Chimie (2010) 13,3, 343-352

Les composés hybrides à base d'hydroxydes lamellaires magnétiques : Une voie vers des matériaux multifonctionnels.
E. DELAHAYE, S. EYELE-MEZUI, M. DIOP, R. WELTER, M. DRILLON, P. RABU, G. ROGEZ
L'Actualité Chimique, janvier (2010), 337, 28-35

Heterometallic Chains and Clusters with Gold-Transition Metal Bonds: Synthesis and Interconversion
SABRINA SCULFORT, RICHARD WELTER AND PIERRE BRAUNSTEIN
Inorganic Chemistry (2010), 49, 5, 2372-2382

Synthesis and Photophysical Properties of Copper(I) Complexes Obtained from 1,10-Phenanthroline Ligands with Increasingly Bulky 2,9-Substituents
G. ACCORSI, N. ARMAROLI, C. DUHAYON, A. SAQUET, B. DELAVAUUX-NICOT, R. WELTER, O. MOUDAM, M. HOLLER, J-F. NIERENGARTEN.
Eur. J. Inorg. Chem. (2010), 1, 164-173

Reactions of Unsaturated Nickel-Molybdenum and -Tungsten Complexes with Primary Amines: Chemo-selective N-Coordination to Nickel To Give the First Structurally Characterised Primary Amine-Organonickel Complexes

CARMONA CARMEN CUNCILLOS, CLAPHAM SARAH, GONIDEC MATHIEU, RITLENG VINCENT, BRAUNSTEIN PIERRE, WELTER RICHARD, CHETCUTI MICHAEL J.

Eur. J. Inorg. Chem. (2010) 3, 403-409

Unusual reactivity in organoaluminium and NHC chemistry: deprotonation of AlMe₃ by an NHC moiety involving the formation of a sterically bulky NHC-AlMe₃ Lewis adduct

SCHMITT AL, SCHNEE G, WELTER R, ET DAGORNE S.

Chem. Comm. (2010) 46, 14, 2480-2482

Solid state and solution study of some phosphoramidate derivatives containing the P(O)NHC(O) bifunctional group: Crystal structures of CCl₂HC(O)NHP(O)(NCH₃(CH₂C₆H₅))(2), p-ClC₆H₄C(O)NH-P(O)(NCH₃(CH₂C₆H₅))(2), CCl₂HC(O)NHP(O)(N(CH₂C₆H₅)(2))(2) and p-BrC₆H₄C(O)NH-P(O)(N(CH₂C₆H₅)(2))(2)

DEHGHANPOUR S, WELTER R, BARRY AH, ET TABASI F

Spectrochimica Acta Part A-Molecular and Biomolecular Spectroscopy, (2010) 75, 4, 1236-1243

Novel Cr-III dinuclear complexes supported by salicyloylhydrazono dithiolane and dithiane ligands: Synthesis, stability, crystal structures and magnetic properties

CLEMENT NICOLAS, TOUSSAINT CLEMENT, ROGEZ GUILLAUME, LOOSE CLAUDIA, KORTUS JENS, BRELOT LYDIA, CHOUA SYLVIE, DAGORNE SAMUEL, TUREK PHILIPPE, WELTER RICHARD.

Dalton Trans. (2010) 39, 19, 4579-4585

Comparison of the Structure and Stability of New alpha-Diimine Complexes of Copper(I) and Silver(I): Density Functional Theory versus Experimental

ROSA VITOR, SANTOS CARLA I. M., WELTER RICHARD, AULLON GABRIEL, LODEIRO CARLOS, AVILES TERESA.

Inorganic Chemistry (2010) 49, 19, 8699-8708

Structural Effects of Sodium Cations in Polynuclear, Multicubane-Type Mixed Na-Ni Complexes

ZHANG J, TEO P, PATTACINI R, KERMAGORET A, WELTER R, ROGEZ G, HOR TSA, BRAUNSTEIN P

Angewandte Chemie, International Edition (2010), 49, 26, 4443-4446

Unusually Large Bite Angle of a Distally Diphosphanylated Calix[4]arene Chelator

SOHEILA SAMENI, CATHERINE JEUNESSE, MOUHAMAD AWADA, DOMINIQUE MATT AND RICHARD WELTER

European Journal of Inorganic Chemistry, (2010), 31, 4917-4923

Synthesis and X-Ray crystal structure of the dinuclear copper(I) complex [Cu-2((Me-Pk)₂En)(PPh₃)(4)](ClO₄)₂ center dot 2CHCl₃

AD. KHALAJI, M. AMIRNASR AND R. WELTER

Russian Journal of Coordination Chemistry, 36, 11 (2010), 835-837

From Salicylaldehyde to Chiral Salen Sulfonates - Syntheses, Structures and Properties of New Transition Metal Complexes Derived from Sulfonato Salen Ligands

E. DELAHAYE, M. DIOP AND R. WELTER.

Eurjic (2010), 28, 4450-4461

2011

Synthesis, crystal structure and thermal decomposition of Cu(II), Co(II), Mn(II) complexes with hetero-ligands containing cysteic acid, 4,4'-dimethyl-2,2'-bipyridine and azide

A. LEHLEH, A. BEGHIDJA, C. BEGHIDJA, O. MENTRÉ AND R. WELTER

CR Chimie (2011) 14, 5, 462-470.

Synthesis, structural characterizations, spectroscopic and magnetic properties of Mn^{II} and Mn^{III} complexes with an unprecedented bridging coordination mode of 2-Salicylichydrazono-1,3-Dithiolane Ligand

C. BOUCHAMENI, C. BEGHIDJA, A. BEGHIDJA, P. RABU AND R. WELTER*

Polyhedron (2011) 30, 11, 1774-1778.

Binucleating behaviour of a proximally-diphosphinated calix[4]arene
M. AWADA; C. JEUNESSE, D. MATT, L. TOUPET, R. WELTER.
Dalton Trans. (2011) 40, 39, 10063-10070

2012

Mononuclear and dinuclear complexes of manganese(III) and Iron(III) supported by 2-salicyloylhydrazono-1,3-dithiane ligand: synthesis, characterization and magnetic properties
W. ZUO, V. ROSA, C. TOURBILLON, D. SPECKLIN, C. KHALED, M. KURMOO AND R. WELTER
RSC Adv., 2012, 2 (6), 2517 - 2526

Synthesis, crystal structures and use in ethylene oligomerization catalysis of novel mono- and dinuclear nickel complexes supported by (*E*)-*N'*-(1-(thiophen-2-yl)ethylidene)benzohydrazide ligand Original Research Article
W. ZUO, C. TOURBILLON, V. ROSA, K. CHEAIB, M.M. ANDRADE, S. DAGORNE AND R. WELTER
Inorganica Chimica Acta, Volume 383, 30 (2012), 213-219

New quinoline a-diimine ligands as fluorescent probes for metal ions: Ultrasound-assisted and conventional synthetic methods
B. PEDRAS, V. ROSA, R. WELTER, CARLOS LODEIRO, T. AVILÉS
Inorganica Chimica Acta, 381 (2012) 143-149

Synthesis, Characterization and Magnetic Properties of Mono- and Dinuclear Complexes of Manganese (III) and (IV) Supported by (*E*)-*N'*(1(thiophene2yl)ethylidene)benzohydrazide Ligand with Unusual Mn(III) to Mn(IV) Disproportionation Reaction.
D. SPECKLIN, C. TOURBILLON, M. KURMOO AND R. WELTER
Inorg. Chem. Comm., 20 (2012), 172-176

Highly active zinc alkyl cations for the controlled and immortal ring-opening polymerization of ϵ -caprolactone
C. ROMAIN, V. ROSA, C. FLIEDEL, F. BIER, F. HILD, R. WELTER, S. DAGORNE AND T. AVILÉS
Dalton Trans., 41, 12 (2012), 3377-3379

Structural diversity and versatility for organoaluminium complexes supported by mono- and di-anionic aminophenolate bidentate ligands
A. MAISSE-FRANÇOIS, L. AZOR, A-L. SCHMITT, A. COQUEL, L. BRELOT, R. WELTER, S. BELLEMIN-LAPONNAZ, S. DAGORNE
Journal of Organometallic chemistry (2012), 696, 26, 4248-4256

Structural, magnetic and optical properties of an FeIII dimer bridged by the meridional planar divergent *N,N'*-bis(salicyl)hydrazide and its photo- and electro-chemistry in solution
K. CHEAIB, D. MARTEL, N. CLEMENT,
F. ECKES, S. KOUAHO, G. ROGEZ, S. DAGORNE, M. KURMOO, S. CHOUA, R. WELTER*
Dalton Trans., (2012) in press

Matrix-assisted laser desorption/ionisation time of flight spectrometry for the fast screening of oxosteroids using aromatic hydrated hydrazines as versatile probes
M. GALESIO, C. NUNEZ M.S. DINIZ, R. WELTER, C. LODEIRO, J.L. CAPELO
Talanta, (2012) in press

Diplatinum complexes: Chemoselective reactions of the 1-orthometalated, metal-metal bonded complex [Pt2(1-*o*-C6H4PPh2)(1-PPh2)(PPh3)2] with acids. Crystal structures of [Pt2Cl(1-PPh2)(PPh3)3], [Pt2I(1-PPh2)(PPh3)3], [Pt2(1-H)(1-PPh2)I2(PPh3)2] and *cis,cis*-[Pt2(1-I)(1-PPh2)I2(PPh3)2]
Christine Archambault ^a, Robert Bender ^a, Yves Dusausoy ^b, Richard Welter ^c, Pierre Braunstein ^{a,†}
Polyhedron, (2012) in Press

Synthesis, characterization and magnetic properties of mono- and dinuclear complexes of Manganese (III) and (IV) supported by (*E*)-*N'*-(1-(thiophene-2-yl)ethylidene)benzohydrazide arising from an unusual Mn(III) to Mn(IV) disproportionation reaction
David Specklin, Clarisse Tourbillon, Vitor Rosa, Mohamedally Kurmoo, Richard Welter *
Inorg. Chem. Comm. (2012), in Press

COUVERTURES DE REVUE

A Journal of the Gesellschaft Deutscher Chemiker D 3463

Angewandte Chemie

International Edition
www.angewandte.org
2009-48/51

Functionalization of Indoles
M. Bandini, A. Eichholzer

Chiral Resolution
D. Kasper and co-workers

β -Chlorovinyl Ketones and Arenes
L. J. Coenen et al.

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ChemComm

Chemical Communications
www.rsc.org/chemcomm Number 42 | 14 November 2007 | Pages 4301-4424

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COMMUNICATION
Jaume Veciana, Concepción Rovina, Jean-François Hergonnet-Giral, Changes in electronic couplings of metal-nucleic systems due to through-space intramolecular interactions

FEATURE ARTICLE
Mary R. Heagy and Bradford A. Pridmore, Fluorinated poly(arylene ether)s: materials, structures, optical properties and applications

RSC Publishing

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Tetrahedron Letters

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IN THIS ISSUE:
A New Liquid Crystal Compound Based on an Ionic Imidazolium Salt

J.-M. Suisen, S. Bellemin-Lapontez, L. Douce, A. Maisee-François and R. Welter

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ADVANCED MATERIALS

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Cu^I Complexes for Light-Emitting Electrochemical Cells