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ICMMO, UMR 8182, Laboratoire de Catalyse Moléculaire, Université Paris-sud



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SKILLS

Project Management

- Financing research
- Patent

- Budget monitoring
- International collaboration

Innovation and Research

- Development of organic
- Homogeneous catalysis
- Optimization and Scale-up
- Substitutes for noble transition metals
- Budget monitoring
- Molecular characterization

Teaching

- Teaching in Bachelor and Master degree (lectures, tutorial, exercises)
- Teaching of General, Organic, Organometallic & Inorganic Chemistry
- Science popularization in elementary schools
- Educational engineering
- English Teaching in Organic

BIBLIOMETRIC INDICATORS

- 52 publications including 47 articles, 3 reviews, 1 book chapter, 1 patent, H-index = 19, sum of times cited: >1076,
- Most frequent journals: Chem. Eur. J. (7), Angew. Chem. Int. Ed. (4), Org. Lett. (4), Chem. Comm. (3), J. Am. Chem. Soc. (2), Chem. Sci. (1), Coord. Chem. Rev. (1)

FELLOWSHIPS & AWARDS

- Accueil en Délégation CNRS University Paris Sud
- Prime d'Encadrement Doctoral University Paris Sud
- JSP Fellow Program- 50th Bürgenstock Stereochemistry
- CNRS Postdoctoral Fellowship Strasbourg
- Consolider Program ICIQ Spain
- Ministry of Education PhD Fellowship Strasbourg

ADMINISTRATION DE LA RECHERCHE

- Member of the board SCF, Ile de France
- Member of CCSU University Paris Sud
- Elected Member of the ICMMO University Paris-Sud
- Member of the organizing committee of 10th RCO
- Symposium 2020
- Frequent reviewer: ANR, submitted manucrit (10/an)

COMMUNICATIONS

- congress
- 15 invited lectures (+8 in 2020)
- 6 invited lectures in 1 press release: <u>L'éthanol</u>, candidat sérieux pour la fabrication de molécules bioactives
 - 30 oral communications

CHRISTOPHE BOUR

Associate Professor

ABOUT ME

Attracted by academic research for the challenges it offers and the freedom it gives me, I have addressed many complex issues. The resolution of fundamental scientific issues has been a real source of satisfaction for me, as well as for the education of graduate students

EXPERIENCES

University Paris Saclay Senior Research Scientist-Homogeneous Sustainable Catalysis

since sept 2010 Project management / Financing research /

Management of a research team / Scientific valorization / Diffusion of knowledge / Writing of scientific articles / Communication / International

University Paris Sud Associate Professor

Teaching of General Chemistry, Organic Chemistry, since sept 2010 Organometallic, Inorganic, Analytical in License,

Master (192h/year)

Université of Strasbourg Post-doctoral Fellow - Total Synthesis

R&D project: # Ring-Closing Metathesis of O,-Osept 2008- sept 2010 Acetals Enynes # Total Synthesis of Salvinorin A

through diastereoselective Diels-Alder

ICIQ Tarragona - Spain Post-doctoral Fellow - Homogeneous Catalysis

R&D project: # Development of enantioselective gold janv 2007- août 2008 catalysis # Synthesis of new gold molecular complexes for catalysis

Université of Strasbourg

sept 2003- déc 2006

PhD - New Synthetic Methodologies

R&D project: # Development of palladium catalysis # Electrocyclization # Cross-coupling

EDUCATION

Université Paris Saclay Diploma of « Habilitation à diriger des recherches »

2015 De nouveaux procédés catalytiques pour l'activation

carbophile par des acides de Lewis п

Université OF Strasbourg PhD Thesis in Organic Chemistry

superviser by Dr. J. Suffert

4-exo-dig and 5-exo-dig Cyclocarbopalladation: an 2006

expeditive solution towards molecular diversity

Master Science in Chemistry with honors 2003

Diploma of « Magistère Interdisciplinaire en Chimie-

Biologie »

2002 Bachelor of Science in chemistry

RELEVANT PUBLICATIONS

- 1. Iron-Catalyzed Reductive Ethylation of Imines Using Ethanol. Vayer, M.; Morcillo, S.; Dupont, J.; Gandon, V.; Bour, C. Angew. Chem. Int. Ed. **2018**, *57*, 3228.
- 2. Low-Valent Cationic Gallium(I) Complexes as π -Acid Catalysts. Li, Z.; Thiery, G.; Lichtenthaler, M.; Krossing, I.; Guillot, R.; Gandon, V.; Bour, C. Adv. Synth. Cat. 2018, 3, 544.
- 3. Revealing the Activity of -Acid Catalysts Using a 7-Alkynyl Cycloheptatriene. Vayer, M.; Guillot, R.; Bour, C.; Gandon, V. Chem. Eur. J. **2017**, 23, 13901
- 4. Dibromoindium(III) Cation as -Lewis Acid: Characterization of [IPr-InBr2][SbF6] and Catalytic Activity Towards Alkynes and Alkenes. Colard-Itté, J. R.; Michelet, B.; Guillot, R.; Bour, C.; Gandon, V. Chem. Commun. 2015, 51, 7401
- 5. Well-Defined Organo-Gallium Complexes as Lewis Acids for Molecular Catalysis: Structure-Stability-Activity Relationship. Bour, C.; Gandon, V. Coord. Chem. Rev. 2014, 279, 43.
- 6. Copper Salts as Additives in Gold(I)-Catalyzed Reactions. Guérinot, A.; Fang, W.; Sircoglou, M.; Bour, C.; Bezzenine-Lafollée, S.; Gandon, V. Angew. Chem. Int. Ed. 2013, 52, 5848.

SUPERVISION

- 11 PHDs (dont 5 en cours)
- 8 Master 2
- 7 Post-doc
- 7 jurys of PhD Thesis

RESEARCH CONTRACTS

- Merlion Research Program (25 k€) Coordinator
- ANR HICAT (320k€) Partner
- Prematuration IDEX P. Saclay (50 k€) Coordinator > 1 brevet
- ANR ALCACAT (250k€) Partner > 1 publication
- Labex CHARM3AT (50k€) Coordinator > 1 publication
- Labex CHARM3AT (50k€) Partner > 2 publications
- ANR COLAMET (200k€) Partner > 1 publication
- Labex CHARM3AT (50k€) Partner > 3 publications
- Labex CHARM3AT (50k€) Partner > 1 publication
- Attractivité U. Paris-Sud (20k€) Coordinator> 5 publications

PATENT

borrowing strategy. Vayer, M.; Gandon, V.; Bour, C. PCT/PCT Int. Appl. (2019), WO 2019063952 A1 20190404

COLLABORATIONS

- Pr. I. Krossing, University of Freiburg
- Dr. V. Coeffard, Prof. C. Greek, University of Versailles
- Dr. S. Floquet, University of Versailles
- Pr. E. Mata, University of Rosario Argentina,
- Dr. H. Vinh Huynh, NUS, Singapore
- Prof. J. M. Cuerva, University of Granada
- Dr. Y. Sarrazin, University of Rennes
- Dr. S. Dagorne, University of Strasbourg

SCIENTIFIC POPULARIZATION

- Science Festival, University of Strasbourg
- Creation of MOOC (Massive Open Online Course) in Organic Chemistry for the L1 of Biology (AAP-e-learning). 4
- Scientific workshop, primary school

COVERS



Details of my experiences

SENIOR RESEARCH SCIENTIST -HOMOGENEOUS SUSTAINABLE CATALYSIS



Université Paris Saclay # since sept 2010

Homogeneous catalysis - Coordination chemistry - Organometallic chemistry - Gold chemistry - Gallium chemistry - Electronic properties of ligands - Divalent carbon chemistry - Chemistry of noble metals -Chemistry of main group metals - Iron chemistry - Glove box

ASSIGNMENTS CONDUCTED

Project Coordinator

DETAILS OF THE EXPÉRIENCE

- Head of 15 research projects
- •Supervision of 11 PhD (5 theses in progress), 6 Postdoc, 1 ATER, 8 trainees, 1 assistant engineer
- •10 contracts (coordinator and partner) of ANR, Labex, valorization project = 600 k € since 2010
- •8 collaborations, 4 european of which resulted in publications

R&D Project Manager

- 35 articles published in peerreviewed journals
- 7 thesis jury participations
- Scientific Evaluator for ANR and many scientific journals (10/year)
- Co-organization of 2 scientific conferences: 100 participants, 50k € budget
- 17 invitations for seminars/congress
- CNRS delegation in 2016
- Multicultural context
- International patent

ASSOCIATE PROFESSOR

Université Paris Sud # since sept. 2010

ASSIGNMENTS CONDUCTED

Teaching in Bachelor and Master degree (lectures, tutorial, exercices) 192h/year

DETAILS OF THE EXPERIENCE

- •Organic Chemistry for "Agrégation interne" (Course lecturer)
- Stereochemistry M1
- •Introduction to Organic Chemistry L1 PC (Course lecturer)
- Basic Organic Chemistry Laboratory L2 (Supervisor)
- Tuteur Stage M1 Chimie Organique
- Introduction to Stereoselective
- Reaction L3 (Teaching Assistant)
- Organic Inorganic chemistry towards sustainability M1 SERP+
- Organometallic M1
- Organic Chemistry (Course L2 lecturer + Coordinator)

Junior Research Scientist-Total Synthesis



ECPM, University of Strasbourg # sept 2008-2010 with Dr. Hanguet

DETAILS OF THE EXPERIENCE

- •Demonstration o f diastereoselective method hitherto postutaled
- Writing articles

- •Animation of 3 national dissémination seminars
- Transmission of my know-how to the traînées of the team
- Acquisition of new skills in total synthèses (multigram scale)
- Collaborative initiative

Junior Research Scientist-Organometallic catalysis Class

ICIQ Tarragona Spain # fev. 2007- aug 2008 avec Prof. Echavarren

DETAILS OF THE EXPERIENCE

- Head of 5 research projects
- •Supervision of PhD students
- •5 articles published in peerreviewed journals
- •Design, synthesis and characterization of new ligands and gold complexes
- •Study of the reactivity of complexes in polyenes cycloisomerizations

