

Felicite Majoumo-Mbe, PhD, *Associate Professor*

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ACADEMIC QUALIFICATIONS AND PROFESSIONAL BACKGROUND

2017-Present Associate Professor, Department of Chemistry, University of Buea

2013-2017 Senior Lecturer, Department of Chemistry, University of Buea

2008-2017 Lecturer, Department of Chemistry, University of Buea

Jul.-Sept. 2010 Scientific guest at the Institute of Inorganic, University of Leipzig, Germany, Chemistry Research group of Prof. Dr. Evamarie Hey-Hawkins, Research Topic: Linear Oligiphosphanylamine Ligands: Synthesis, Polynuclear Metal Complexes and Catalytic Properties. Research stay funded by DAAD

2005-2008 Assistant Lecturer, Department of Chemistry, University of Buea

2004-2005 Research Assistant, Institute of Inorganic Chemistry, Faculty of Chemistry and Mineralogy, University of Leipzig, Germany

Sept-Oct 2002 Research Project on the Reactions of Phosphavinyl Grignard Reagent with some Aldehydes, in the frame of a DAAD program in the Research group of Prof. Dr. Cameron Jones, Cardiff University, Wales United Kingdom

Apr.2001-2004 PhD program and Graduate Assistant at the Institute of Inorganic Chemistry, University of Leipzig, Speciality: Coordination/Organometallic Chemistry, Supervisor: Prof. Dr. Evamarie Hey-Hawkins. Research Topic: Synthesis, Characterisation and Catalytic Properties of Metal Complexes with Bulky Phosphanylamine Ligands.

Nov.2000- Apr.2001 Scientific guest at the Institute of Inorganic Chemistry, University of Leipzig, Germany, Research group of Prof. Dr. Evamarie Hey-Hawkins

1997-2000 Graduate assistant Department of Inorganic Chemistry, University of Yaounde I

TEACHING

Coordination Chemistry (CHM328)
Inorganic Synthesis and Solid State Chemistry (CHM425)
Integrated Practical Training and Research Project in Chemistry (CHM498)
Synthetic Methods in Inorganic Chemistry (CHM621)
Inorganic Reaction Mechanism(CHM623)
Organometallic Chemistry(CHM604)
Research Methodology and Scientific Writing in Chemistry(CHM691)
Research and Communication Skills I and II (CHM 701and CHM702)
Advanced Coordination Chemistry (CHM724)
Special Topics in Inorganic Chemistry (CHM727)
Non-aqueous Solvents and Chemical Reactions (CHM729)

RESEARCH INTERESTS

New oligophosphanylamine ligands, New bioactive schiff bases ligands of Isatin-Quinoline- and hydralazine derivatives, Biological-catalytic-magnetic and photophysical properties of new transition metal complexes, Evaluation of Organometallic and Coordination Compounds using Single Crystal X-ray Crystallography combined with Spectroscopic Methods.

CONFERENCES / SEMINARS/ WORKSHOPS

-DAAD Alumni Womens's Workshops on: Women in science and the Management of Challenges in a COVO-19 World, May 27-29, **2021, Yaounde, Cameroon**

-DAAD Alumni Conference on Natural Resources and Science for the Better Word, 7-9 October, **2020, Yaounde, Cameroon**

-DAAD Alumni Conference on Genetic Resources, Research and Innovation, July 24-26, **2019, Yaounde,**

-Single Crystal X-Ray Diffraction Study of Palladium Complex with Hexaphosphanylamine Ligand, 1st Pan- African Conference of Crystallography, October 6-10, **2016, Dschang, Cameroon**

-Synthesis and Characterization of Metal Complexes with Oligophosphanylamines, Departmental Seminar for Visiting Lecturer, July 16, **2010, Leipzig, Germany**

-Characterisation of Low-coordinate Zinc Complexes With Bulky Bis(phosphenyl-amino)benzene.Ligand, University of Buea Science Expo, March 13-14, **2009, Buea**
-Phosphanylamine as Multifunctional Ligands in Metal Complexes, XXXVIth International Conference on Coordination Chemistry, ICC 36, July 18-23, **2004, Mérida, Mexico**

-Phosphinoamines as Multifunctional Ligands for Transition Metal, Scientific Colloquium, August 25-30, **2002, Austria**

SOME IMPORTANT PUBLICATIONS

1- Synthesis, molecular and crystal structure of 1-(1,2-dihydrophthalazin-1-ylidene)-2-[1-(thiophen-2-yl)ethylidene]hydrazine

F. Majoumo-Mbe, E. N. Nfor P. Kenfack Tsobnang, V. B. Nguemmeni Eloundou, J. N. Yong and I. I. Efetia; *Acta Cryst.* 2019, E75, 251–254

2-Synthesis, Molecular Structure and Anti-Onchocercal Studies of 1-(Phthalazin-1(H)-one)[(Pyridin-2-yl)ethylidene]hydrazine

J. N. Yong, F. Majoumo-Mbe, M. Samje, E. N. Nfor, *Int. J. Org. Chem.*, 2016, 6, 77-84

3- Synthesis, Crystal and Molecular Structure of Manganese (II) Complex of 2-Acetylpyridine N (4)Ethylthiosemicarbazone

F. Majoumo-Mbe, D. T. Nde, I. N. Mukoko, O. E. Offiong, E. N. Nfor, *Commun. Inorg. Synth.*, 2016, 4, 5-11

4-Hexaphosphanylamine Ligands: 1,1,4,7,10,10-Hexakis(diphenylphosphanyl)triethylenetetramine Complexes of Chromium, Molybdenum and Tungsten

F. Majoumo-Mbe, L. Mendoza, P. Lönnecke, S. Gómez-Ruiz, and E. Hey-Hawkins, *Z. Anorg. Allg. Chem.*, 2015, 641, 2306-2311.

5-Synthesis, crystal structure and biological activity of 1-(phthalazin-1(2H)-one)[(Pyridin-2-yl)ethylidene]hydrazone and its cobalt (III) complex

F. Majoumo-Mbe, E. N. Nfor, E. B. Sengeh, R. N. Njong and O. E. Ofiong, *Commun. Inorg. Synth.*, 2015, 3, 40-46.

6-Synthesis, Crystal structure, and magnetic properties of bis(aqua)[μ -(terephthalato- kO,kO')]copper(II) monohydrate [Cu(C₈O₄)(OH₂)₂] \cdot H₂O

E. N. Nfor, F. Majoumo-Mbe, P. T. Ndifon, E. O. Duke, E. N. Mainsah, O. E. Offiong, E. A. Eno, *J. Solid State Chem.*, 2013, 201,133-136.

7-Synthesis, crystal structure and antifungal activity of a Ni(II) complex of a new hydrazone derived from antihypertensive drug Hydralazine hydrochloride

E. N. Nfor, A. Husian, F. Majoumo-Mbe, I. N. Njah, O. E. Offiong, S. A. Bourne, *Polyhedron*, 2013, 63, 207-213.

8-Water-filled pseudo-nanotubes in Ag_{11.60}H_{0.40}[Cr(C₂O₄)₃]₄ \cdot 15H₂O: Synthesis, characterization and X-ray structure.

M. M. Belombé, J. Nenwa, Y. A. Mbiangue, G. Bebga, F. Majoumo-Mbe, P. Lönnecke, E. Hey-Hawkins, *Inorg. Chim. Acta*, 2009, 362,1-4.

9-Hydrogen-bonded pillars of alternating chiral complex cations and anions: Synthesis, characterisation, X-ray structure and thermal stability of *catena*-{[Co(H₂oxado)₃][Cr(C₂O₄)₃] \cdot 5H₂O} and of its precursor (H₃oxado)[Co(H₂oxado)₃](SO₄)₂ \cdot 2H₂O.

M. M. Belombé, J. Nenwa, Y. A. Mbiangue, F. Majoumo-Mbe, P. Lönnecke, E. Hey-Hawkins, *Dalton Trans.* 2009, 4519-4525

10-Sterically demanding aminophosphines: Palladium and gold complexes of 1,2-bis(dimesitylphosphanyl)amino)benzene.

F. Majoumo-Mbe, P. Lönnecke, and E. Hey-Hawkins, *Z. Anorg. Allg. Chem.*, 2008, 634, 2385-2390.

11-Oligomerisation of α -olefins by the dimeric nickel bisamido complex [Ni{1-N(PMes₂)-2-N(μ -PMes₂)C₆H₄- $k^3N,N',P,-k^1P$ }]₂ activated by methylalumoxane (MAO)

F. Majoumo-Mbe, P. Lönnecke, V. Volkis, M. Sharma, M. S. Eisen, E. Hey-Hawkins, *J. organomet. Chem.* 2008, 2603-2609.

12-Bis(phosphanyl-amino)benzene ligands: a zinc(II) complex and an unusual nickel(I) complex with a Dewar-benzene-type Ni₂P₂N backbone

F. Majoumo-Mbe, O. Kühn, P. Lönnecke, I. Silaghi-Dumitrescu and E. Hey-Hawkins, *Dalton Trans.* 2008, 3107-3114.

13- P,N Ligand: *N,N,N',N'*-Tetrakis(diphenylphosphanyl)-1,3-diaminobenzene Complexes of Rhodium, Nickel and Palladium

F. Majoumo-Mbe, P. Lönnecke, E. V. Novikova G. P. Belov, E. Hey-Hawkins, *Dalton Trans.* 2005, 3326-3330.

14-Polymerisations of ε-caprolactone and β-butyrolactone with Zn-, Al- and Mg- based organometallic complexes

F. Majoumo-Mbe, E. Smolensky, P. Lönnecke, D. Shpasser, M. S. Eisen, E. Hey-Hawkins, *J. Mol. Cat.* 2005, 240, 91-98.

15-Zwitterionic and Bis-amido Zinc Complexes with Bulky Bis(phosphanyl-amino)-benzene Ligands: Synthesis, Reactivity and Molecular Structures of [ZnCl₂(1,2-{N(PHMe₂)₂C₆H₄-κ²N,N'})], [ZnPr{1-N(PMe₂)-2-N(PHMe₂C₆H₄-κ²N,N')}] and [Zn{1-N(PMe₂)-2-N(μ-PMe₂)C₆H₄-κ³N,N',P'}]₂

F. Majoumo-Mbe, P. Lönnecke, and E. Hey-Hawkins, *Organometallics* 2005, 24, 5287-5293