

Resume

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TITLES AND DEGREES

- Mar 1993 – Jan 2001. Biochemist, Universidad de Concepción.
Thesis: *"Synthesis of Quelanting Agents and their Applications in the Cellulose Industry"*.
- Mar 2000 - Jan 2005. Doctor of Sciences with major in Chemistry. *Universidad de Concepción*.
Thesis: *"Synthesis, Characterization y Applications of Cobalt Complexes Based on bis-3,5-di-tert-Butyl-2-hydroxybenzamides"*.
- Jan 2008 - Aug 2008. Postdoctoral Research. Dr. Kristin Bowman-James, (University Distinguished Professor of Chemistry, Director Kansas NSF EPSCoR, University of Kansas). Chemistry Department. University of Kansas.
"Supramolecular Chemistry: Anion Complexation".

INTEREST AREA

Design, Synthesis and Characterization of Ligands and Metal Transitions Complexes.
Supramolecular Chemistry

TEACHING BACKGROUNDS

- Aug. 1996 to Dec 2004. Universidad de Concepción.
Laboratory Instructor, Organic Chemistry Laboratories.
Department of Organic Chemistry. Faculty of Chemical Sciences.
- March 2005. Universidad de Concepción.
Assistant Professor. Department of Organic Chemistry.
Faculty of Chemical Sciences.

RESEARCH EXPERIENCE

RESEARCH GRANTS

Main Researcher, Grant FONDECYT. 11080179. "Synthesis and Characterization of High Porosity Coordination Polymers for Gases Storage". (Nov 2008- Nov 2010).

Co-Researcher, Grant FONDECYT. 1080262. "New Pyrazol-5-one Derivatives. Synthesis, Characterization and Potential Applications to the Preparation Molecular Assemblies". (Nov 2008- Nov 2010).

Co-Researcher, Grant MAT2004-60681. "Multifunctional Molecular Materials Based on Polycarboxylic Acids". Ministerio de Educación y Ciencia, Gobierno Español. (2007 – 2010).

Co-Researcher, Grant A/012620/07. "Synthesis and Characterization of New Re(V) and Gd(III) Acylpyrazolones Coordination Compounds: Potencial High Performance Imaging Agent". Ministerio de Educación y Ciencia, Gobierno Español. (2007 – 2010).

PUBLICATIONS

"Synthesis of Highly Hindered Polyanionic Chelating Ligands". Claudio A. Jiménez and Julio Belmar. *Tetrahedron* 61(16), 3933 – 3938 (2005).

"New Anionic Cobalt Complexes Using Highly Hindered bis-Amides with Varying Donor Abilities as Ligands". Claudio A. Jiménez, Julio B. Belmar, Joel Alderete, Fernando S. Delgado, Matías López-Rodríguez, Octavio Peña, Miguel Julve and Catalina Ruiz-Pérez. *Dalton Transaction*, 2135-2144 (2007). (Cover Picture Number 21)

"Convenient and Efficient Method for the Obtention of Ketones from Highly Hindered Aromatic N,N-Dimethyl-amides". Claudio A. Jiménez and Julio B. Belmar *Synthetic Communications*, 37(14), - ,(2007).

"Structural Changes in the Crystal Packing of Highly Hindered Symmetrical Vicinal Bis-Amides". Claudio A. Jiménez, Julio B. Belmar, Fernando S. Delgado, Miguel Julve and Catalina Ruiz-Pérez. *Crystal Engineering Communications*. 9(9), 746 – 752 (2007).

CONFERENCES.

"Magnetic and Spectroscopic Characterization of Cobalt Complexes Based on bis-3,5-di-tert-Butyl-2-hydroxybenzamides". C. Jiménez, J. Belmar, C. Ruiz, F. Delgado, O. Peña. X Inorganic Chemistry Meeting, Santiago, Chile. January, 2005.

"Synthesis of Three Novel Tripodal Ligands As Potential Building Bloks for Metal-Organic Frameworks". Julio B. Belmar, Claudio A. Jiménez, L. Ortiz and R. Venegas. 12th Brazilian Meeting on Organic Synthesis, Itapema, SC-Brazil. August, 2007.

"Synthesis of Highly Hindered tris-Amides as Potential Anion Receptors". L. A. Ortiz , Julio B. Belmar, Claudio A. Jiménez, and R. Venegas. XXVII National Meeting of the Chilean Chemical Society, Chillán, Chile. November, 2007.

"New pyrazolone Derivatives as Building Blocks for Supramolecular Assemblies". J. Belmar, C. Jiménez, L. Ortiz, D. Ramírez. XXVIII National Meeting of the Chilean Chemical Society, San Juan, Puerto Rico (July 27 – Aug 1, 2008)

"Macrocyclic Tweaking and Concomitant Effects". Kang, S. O.; Das, U.; Jiménez, C. A.; Day, V. W.; Bowman-James, K. III International Symposium on Macrocyclic & Supramolecular Chemistry (ISMCS), Las Vegas, Nevada, USA (July, 2008).