

Dr. rer. nat. Tommy Pozo Vila

Dipl. Chem., Dipl.-Ing.

Tel.: +591 735 26290

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La Paz - Bolivia



SUMMARY PROFILE

Expert of Bolivian and German nationalities, married, and father of four children (Lukas Valentín (31), Martha Helena (14), Luciana Isabella (8), and Tommy Alessandro (4)). With extensive multidisciplinary experience, He has led innovative projects in critical fields such as higher education, energy, production, sustainable development, and scientific research. His profile combines strong technical skills with a strategic vision and a firm commitment to innovation, technology, and corporate social responsibility.

Academic Experience:

Recognized for the creation and development of new and innovative undergraduate programs, such as Environmental Engineering and Alternative Energies in Bolivia, Bioengineering in Natural Resources, and Artificial Intelligence Engineering. These initiatives aim to advance strategic sectors such as renewable energy, the environment, sustainable development, biotechnology, biomedicine, bioengineering, the utilization of natural resources, and the application of artificial intelligence as a fundamental tool for national development.

- Responsible for establishing strategic research lines.
- Leadership in interdisciplinary international projects, as well as collaboration with industry, NGOs, government, and society.

Experience in Energy:

- Leadership in designing innovative strategies for energy transportation and utilization, including the creation of energy highways and green hydrogen projects.
- Significant contributions to geothermal energy and concentrated solar power (CSP) projects, focusing on their storage and commercialization.

Experience in Production and Quality Control:

- Extensive background in executive management within the Quality Management sector, overseeing QM systems across the entire production chain and ensuring superior quality standards.
- International experience in quality control and audits, applying innovative technologies for optimization and continuous improvement of production.

Experience in Standardization and Regulatory Compliance:

- Responsible for technological and qualitative development in companies, leading the implementation of quality requirements and international regulations.
- Active participation in the creation of new standards and regulations within standardization and control organizations in Germany and Europe.

Scientific Experience:

- Noted for expertise in applied scientific research, particularly in the field of nitric oxide (NO) and protected atmosphere chemistry.
- Conducted kinetic studies and research on receptor models for the specific release of NO, as well as the synthesis of NO donors and guanidines for selective and quantitative applications.
- Practical application of fluorescence probes for quantitative detection of NO under physiological conditions, and synthesis of macrocycles for investigating their activity as catalase-like enzymes.

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DEGREES AND ACADEMIC COURSES

July 2024	Full Professor Universidad Privada Boliviana UPB – Bolivia
November 2023 – January 2024	Leadership and Team Management Course Universidad Internacional de La Rioja – Spain
November 2023 – January 2024	Research Culture Course Universidad Internacional de La Rioja – Spain
October 2014	Diploma in Higher Education UPB – Bolivia
May 2014 – June 2016	Tenured Professor: Doctoral Program Tutor in Sustainability Universidad Europea de Energía y Medio Ambiente UEMA Valladolid – Spain
March 2014	Tenured Professor Universidad Privada Boliviana UPB – Bolivia
December 2005	Doctorate in Natural Sciences / Doktor der Naturwissenschaften (Dr. rer. nat.) Note of Excellence: 1.0 Universität Duisburg - Essen – Germany
February 2004	Diploma in Academic Teaching for Professors (Diploma in Higher Education) Universität Duisburg - Essen – Germany
March 2000	Master of Science in Pure Chemistry (M. Sc.) / Diplom Chemiker (Dipl. Chem.). Specialization: Organic Chemistry Universität Essen – Germany
March 2000	Master of Science in Chemical Engineering (M. Sc.) / Diplom-Ingenieur (Dipl.-Ing.). Specializations: Analytical Chemistry and Organic Chemistry Universität Essen – Germany

PUBLICATIONS

- Pozo Vila, T. (2022). Alternativas tecnológicas para los empaques en la industria panificadora. En Universidad Privada Boliviana (Ed.), Cochabamba: *La Panificación en el Siglo XXI: La Experiencia de Bolivia* (pp. 115-152). Ediciones UPB.
- Pozo Vila, T. (2018). *Sustancias Restringidas en Artículos de Uso General con el ejemplo de Germany* [Conferencia]. Iniciativas Sustentables – 2do Encuentro Internacional, La Paz, Bolivia.
- Pozo Vila, T. (2014). *Desarrollo Sostenible: Estandarización y Manejo de Normas*. [Conferencia]. Conferencias para la Universidad Tomás Frías, Potosí, Bolivia.
- Pozo Vila, T. (2014). Desarrollo Sostenible: Sustancias Restringidas en Artículos de Uso General con el ejemplo de Germany [Conferencia]. Conferencias para la Universidad Tomás Frías, Potosí, Bolivia.
- Pozo Vila, T. (2014). *Síntesis e Investigación de Nuevos N-Diazeniumdiolatos como Donadores de Óxido Nítrico NO* [Conferencia]. Conferencias para la Universidad Tomás Frías, Potosí, Bolivia.

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Choudary Mohr, P., Mohr, A., Pozo Vila, T., & Korth, H.-G. (2010). Localization of Hydrophobic *N*-Diazeniumdiolates in Aqueous Micellar Solution. *Langmuir*, 26(15), 12785-12793.

Pozo Vila, T. (2009). Nachhaltigkeit in der Schuhbranche. Wiesbaden: Verlag Chmielorz GmbH.

Pozo Vila, T. (2009). Nachhaltigkeit in der Schuhbranche (1. Auflage). Wiesbaden: Verlag Chmielorz GmbH.

Mohr, A., Pozo Vila, T., Korth, H.-G., Rehage, H., & Sustmann, R. (2008). Hydrophobic *N*-Diazeniumdiolates and the Aqueous Interface of Sodium Dodecyl Sulfate (SDS) Micelles. *ChemPhysChem*, 9, 2397-2405.

Mohr, A., Choudary-Mohr, P., Nylander, T., Södermann, O., Pozo Vila, T., Korth, H.-G., Sustmann, R., & Rehage, H. (2007, November). Chemistry of the Diazeniumdiolates Hydrophobic Structure on the Kinetics of Dissociation of Nitric Oxide in Aqueous Solution [Poster presentation]. Annual Surface and Colloid Symposium, Lund.

Pozo Vila, T. (2005). Dissertation, Synthese und Untersuchung von neuen *N*-Diazeniumdiolaten (NONOate). Universität Duisburg - Essen.

Pozo Vila, T., & Sustmann, R. (2004). Guanidin-*N*-Diazeniumdiolate: neuartige NO-Donatoren. In 2. Xantener Gespräch zur Medizinisch-Biologischen Chemie - Von molekularen Wechselwirkungen zu Lebensvorgängen [Conference presentation]. Xanten.

Pozo Vila, T. (2000). Diplomarbeit, Synthese und Charakterisierung von konformativ stabilisierten NONOaten. Universität Duisburg - Essen.

AWARDS / FELLOWSHIPS / MENTIONS

June 2023	Docente Búho de Planta / Best Faculty Member of the Olave School of Business
December 2022	Award for Academic Excellence: Knowledge Production
December 2005	Obtained the degree of Doctorate in Natural Sciences (rerum naturalis) with a mention of Excellence. Grade: 1.0 – Germany
December 2004	Werdelmann Foundation Scholarship – Germany
February 1992	Best student of the German High School course at Studienkolleg (Shortened study period from 2 to 1 semester) Krefeld – Germany
August 1990 – October 1998	Federal German Government Excellence Scholarship for studies in Germany. Carl Duisberg Gesellschaft e. V. Foundation – Germany
December 1989	Best student in the Industrial Engineering program at the "Mariscal Antonio José de Sucre" Military Engineering School, La Paz – Bolivia

MEMBERSHIPS

March 2023 – September 2023	Member of the Sustainable Infrastructure Table. Joint guild of the industry, professional colleges, and academia related to construction.
August 2018	Member of ResearchGate and Google Scholar
February 2012 – March 2013	Member of the political-strategic contact group of BSCI in Germany (Business Social Compliance Initiative) – AVE (Association of German

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	Retail Trade) – Cologne – Germany
April 2011 – March 2013	Expert member of CADS (Cooperation for Avoiding Dangerous Substances in Shoes) – German Footwear Institute – Offenbach – Germany
February 2011 – March 2013	Expert member of the ISO/TC 216 Technical Committee (International Organization for Standardization) – Geneva – Switzerland
January 2010 – March 2013	Expert member of the CEN/TC 309 Technical Committee (European Committee for Standardization) – Brussels – Belgium
January 2010 – March 2013	Expert member of the DIN NA 062-04-52 AA "Footwear" Committee (German Institute for Standardization) – Berlin – Germany
November 2009 – March 2013	Member of the Executive Expert Council for the introduction of the environmental label " Blue Angel " (Requirements and Standards for certification of footwear and textiles in general) – Berlin – Germany
January 2009 – March 2013	Chairman of the Standards Committee for material study DIN NA 062-08-33 AA "Detection and analysis methods for PFOS (Perfluorooctanesulfonates), PFOA, and analytical analogs" – Berlin – Germany
January 2006	Member of the Society of German Chemists GDCh – Germany

ACADEMIC AND PROFESSIONAL EXPERIENCE

July 2024	Full Professor Universidad Privada Boliviana UPB – Bolivia
September 2018	Dean of the Faculty of Engineering and Architecture (FIA) Universidad Privada Boliviana UPB – La Paz
January 2017 – January 2023	Head of the Environmental Engineering and Alternative Energies Program Universidad Privada Boliviana UPB – La Paz
January 2015 – December 2018	Head of the Department of Exact Sciences Universidad Privada Boliviana UPB – La Paz
January 2015 – December 2018	Head of the School of Materials and Special Structures (Civil Engineering, Architecture, and Mining Engineering) Universidad Privada Boliviana UPB – La Paz
May 2014 – June 2016	Tenured Professor: Doctoral Program Tutor in Sustainability European University of Energy and Environment (UEMA) – Valladolid, Spain

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March 2014	Tenured Professor for Undergraduate and Graduate Programs Universidad Privada Boliviana UPB – La Paz
May 2013 – March 2014	Visiting Professor Universidad Privada Boliviana UPB – La Paz
June 2006 – March 2013	Head of Sustainability, Research & Material Sciences HSM Schuhmarketing GmbH – Hattingen – Germany
January 2009 – March 2013	Chairman of the Standards Committee for material study DIN NA 062-08-33 AA “Detection and analysis methods for PFOS (Perfluorooctanesulfonates), PFOA, and analytical analogs” Berlin – Germany
January 2006 – May 2006	Researcher/Scientific Assistant – Institute of Organic Chemistry Universität Duisburg – Essen – Germany
October 2004 – February 2005	Teacher of Organic Chemistry V: Selected Topics (planning, execution, and evaluation of the respective teaching units)
2006 – 2000	Scientific Assistant / Assistant Professor for practical Organic Chemistry courses for 1st – 4th semester students
2000 – 1998	Teaching Assistant for Advanced Organic Chemistry for 5th – 10th semester students, degree examinations in Organic Chemistry. Teaching Assistant Faculty of Chemistry – Universität Essen – Germany

COUNTRIES OF PROFESSIONAL EXPERIENCE

EUROPE	Germany, Portugal, Spain, Belgium, Netherlands, Italy, Albania, Poland, Austria, and Switzerland
ASIA	Turkey, Hong Kong and China
AMERICAS	Bolivia

LANGUAGES

Spanish, German, English. Basic knowledge of Portuguese and Italian.

REFERENCES

Dipl.-Ing. (FH) Miguel Alandia, MBA
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