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DOCTOR EN QUIMICA, UNIVERSITAT GESAMTHOCHSCHULE KASSEL, ALEMANIA  
1997

### **LÍNEA(S) DE INVESTIGACIÓN O ÁREAS DE TRABAJO**

✓ QUIMICA ANALITICA Y AMBIENTAL

### **LISTADO DE PUBLICACIONES EN LOS ÚLTIMOS 10 AÑOS**

C. Miranda, H. Mansilla, J. Yáñez, S. Obregón, G. Colón. "Improved photocatalytic activity of g-C<sub>3</sub>N<sub>4</sub>/TiO<sub>2</sub> composites prepared by a simple impregnation method" **JOURNAL PHOTOCHEMISTRY & PHOTOBIOLOGY A: CHEMISTRY. 253, 16–21 (2013)**

Jorge Yáñez, Marjory Guajardo, Cristian Miranda, César Soto, Héctor D Mansilla, A. Russel Flegal "New assessment of organic mercury formation in highly polluted sediments in Lengua Estuary, Chil" **MARINE POLLUTION BULLETIN. 73, 16–23 (2013)**

César Soto, Romina Otipka, David Contreras, Jorge Yáñez, M. Inés Toral "Co-determination of two antiparasitics drugs by derivative spectrophotometry and its photodegradation studie" **J. CHIL. CHEM. SOC. 58 (3), 1824- (2013)**

Marizú Velásquez, I. Paola Santander, David R. Contreras, Jorge Yáñez, Claudio Zaror, Ricardo A. Salazar, Montserrat Pérez-Moya, Héctor D. Mansilla "Oxidative degradation of sulfathiazole by Fenton and photo-Fenton reactions" **JOURNAL OF ENVIRONMENTAL SCIENCE & HEALTH, PART A. 49(6), 661–670 (2014)**

C Miranda, J Yáñez, D Contreras, C Zaror, H D Mansilla "Phenylmercury degradation by heterogeneous photocatalysis assisted by UV-A light" **JOURNAL OF ENVIRONMENTAL SCIENCE & HEALTH, PART A. 48, 1642–1648 (2013)**

R. Saavedra, R. Gómez, C. Soto, D. Aguayo, C. Candia, J. Yáñez, V. Zúñiga "Determination of Pb(II) by Photoacoustic Spectroscopy with a Solid-Phase Spectrophotometry Approach Using 2-(2-Thiazolylazo)-p-cresol (TAC) Coated on Resin" **INT J THERMOPHYS. 34, 8-9, 1689-1694 (2013)**

J.Yañez, M.Paz Farías; V.Zúñiga; C.Soto, D.Contreras, E.Pereira, H.D.Mansilla, R.Castillo, P.Saez, R.Saavedra. "Differentiation of two main ammunition brands in Chile by Regularized Discriminant Analysis (RDA) of metals in gunshot residues" **MICROCHEMICAL JOURNAL. 101, 43–48 (2012)**

Luke Bartkus, Dulasiri Amarasiriwardena, Bernardo Arriaza, David Bellis & Jorge Yáñez "Exploring lead exposure in ancient Chilean mummies using a single strand of hair by laser ablation-inductively coupled plasma-mass spectrometry (LA-ICP-MS)" **MICROCHEMICAL JOURNAL. 98, 267–274 (2011)**

Renato Saavedra, César Soto, Jorge Yáñez, M. Inés Toral "Determination of cobalt in water samples by photoacoustic spectroscopy with a solid-phase spectrophotometry approach using 3-(2-pyridyl)-5,6-bis (4-sulfophenyl)-1,2,4-triazine" **MICROCHEMICAL JOURNAL. 98, 220–222 (2011)**

Jorge Yañez, Andrea Campos, Alan Mercado, César Soto, José Neira, Héctor Mansilla "Liquid carbon dioxide for improvements in online preconcentration and sample introduction in AAS" **JOURNAL ANALYTICAL ATOMIC SPECTROMETRY**, **26**, 320-324 (2011)

César Soto, Jorge Yañez, David Contreras, María Inés Toral "Simultaneous Determination of Albendazole and Praziquantel by Second Derivative Spectrophotometry and Multivariate Calibration Methods in Veterinary Pharmaceutical Formulation" **ANALYTICAL SCIENCES** **26**, 1-8 (2010).

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Bernabé L. Rivas, Jorge Yañez, Maria del C. Aguirre. "Synthesis and characterization of new water-soluble metal-polymer complex and its application for arsenite retention". **J. APPL. POLYM. SCI.**, **111**, 2720-2730 (2009).

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Campos VL, Yáñez J, Zaror C.A. and Mondaca, M.A “Chromate reduction in *Serratia marcescens* isolated from tannery effluents” **BULLETIN OF ENVIRONMENTAL CONTAMINATION & TOXICOLOGY, 75(2), 400-406 (2005)**

## **LISTADO DE PROYECTOS DE INVESTIGACIÓN EN LOS ÚLTIMOS 10 AÑOS**

- ✓ *Fondecyt N°1050088, Adjudicado Mayo 2005 - 2008*  
*Título, fuente1. Eliminación de As presente en aguas contaminadas, mediante un bioreactor con bacterias As-oxidantes inmovilizadas, aisladas desde ambientes naturales con altos niveles de compuestos arsenicales.*  
*Autor principal: María Angélica Mondaca*  
*Coinvestigadores: Jorge Yáñez, Víctor Campos, Claudio Zaror.*
  
- ✓  *FONTEC – INNOVACION TECNOLÓGICA, CORFO. Proyecto N°205.4522*  
*Nuevo Servicio y Tratamientos de Residuos de Laboratorio Asociados a Productos Merck.*  
*(Merck S.A.-Universidad de Concepción [Facultad Cs. Químicas-UDT])*  
*Investigador Principal: Jorge Yáñez S.,*  
*Coinvestigador: Benito Rodríguez, Director: Juan Carlos Carrasco, UDT.*  
*Empresa: Merck S.A*  
*Unidad Ejecutora: Universidad de Concepción (Facultad Cs. Químicas y UDT). Octubre 2006*  
*Diciembre 2009*
  
- ✓ *Dirección de Investigación UdeC N°210.021.029-10. 2010*  
*Desarrollo de métodos analíticos para la determinación simultánea de fármacos en formulaciones farmacéuticas.*  
*Autor principal: César Soto.*  
*Coinvestigadores: David Contreras, Jorge Yáñez, María Inés Toral*
  
- ✓  *Proyecto Fondecyt N°1110641, (2011-2012)*  
*Oxidation of organic matter and simultaneous reduction of metal in organometallic compounds by advanced redox processes*  
*Autor principal: Héctor D. Mansilla.*  
*Coinvestigadores: Jorge Yáñez, Juanita Freer, Claudio Zaror*
  
- ✓  *Programa de Investigación Asociativa (PIA), CONICYT. Proyecto Anillo ACT-130.*  
*Período: 2010-2012*  
*Polymer Materials Applied for Environmental and Forensic Chemistry*  
*Autor principal: Bernabé Ribas Quiroz - Coinvestigadores: Héctor Mansilla, Eduardo Pereira*  
*Investigadores Asociados: Jorge Yáñez, Claudio Zaror, David Contreras, Néstor Escalona, Pedro Sáez, Amalia Pooley*
  
- ✓  *Proyecto Fondecyt N°1121128, periodo 2012-2014*  
*Development and applications of a Subcritical Fluids Nebulizer (SFN) for online preconcentration and sample introduction of dry aerosol in atomic spectrometry*  
*Invetigador Principal: Jorge Yañez*  
*Coinvestigadores: H. Mansilla, Y. Neira*