

## **1. Name and Academic Ranking**

Rocío Sierra Ramírez

Associate Professor

## **2. Education**

PhD Chemical Engineering. Texas A&M University. U.S.A. (2006-2013).

M. Sc. Chemical Engineering. Texas A&M University. U.S.A. (2005).

M. Sc. Mechanical Engineering. Universidad de los Andes. Colombia (1996) Chemical Engineering.

Fundación Universidad de América. (1992).

## **3. Academic Experience**

Associate Professor 2013- Present. Full Time

Assistant Professor 2011-2013. Full Time

Instructor, 2009 -2010. Full Time

Instructor, 2003. Full Time

## **4. Non-academic Experience**

Research Assistant in Texas A&M University. U.S.A. (2004-2009).

## **5. Certifications or professional registrations**

Colombia, Professional license # 12028

## **6. Current membership in professional organizations**

AIChE, American institute of Chemical Engineers - Member, 2007 – Present

Chemical Engineering Professional Council – Member

## **7. Honors and awards**

Science Award, Fundación Alejandro Angel Escobar-August 1993 Honorable Mention, Cimandes-September 1996

Scholarship, Fulbright Commission-May 2003

## **8. Service Activities**

National or International Panels and committees:

Chemical Engineering, Universidad de los Andes, Research Group Committee -GDPP (Grupo de Diseño de Productos y Procesos). Member 2011 – Present

Chemical Engineering, Universidad de los Andes, Strategic Planning Committee, 2011 - Present

Colciencias-Ecopetrol. Review Committee. Instituto Colombiano para el desarrollo de la Ciencia y la Tecnología “Francisco José De Caldas”

## **9. Main Publications - Last Five Years**

Ruíz H, Sierra R, Moreno J. (2015) Production and Characterization of Activated Carbon from Oil-Palm Shell for Carboxylic Acid Adsorption. Oriental Journal of Chemistry (ISSN 0970-020X) 31 (2), pp. 1-10.

Suescún E, Bautista A, Sierra R, Giraldo L, Moreno J. (2014) Carboxylic acid recovery from aqueous solutions by activated carbon produced from sugarcane bagasse. *Adsorption-Journal Of The International Adsorption Society* (ISSN 0929-5607) 20 (N/A), pp. 935-943.

Lopez C, Moreno-barbosa J, Sierra R, Giraldo L, Moreno J. (2014) Adsorption of Volatile Carboxylic Acids on Activated Carbon Synthesized from Watermelon Shells. *Adsorption Science and Technology* (ISSN 0263-6174) 32 (N/A), pp. 227-242.

Hernández A, Velásquez O, Felice L, Soto C, Amaya D, Lizaraso L, Mosquera A, Bohorquez J, Coronado A, Espejo A, Sierra R, Sanchez O, Almeciga C, Barrera L. (2013) Effect of culture conditions and signal peptide on production of Human recombinant N-acetylgalactosamine-6-sulfate sulfatase in *Escherichia coli* BL21. *Journal of Microbiology and Biotechnology* (ISSN 1017-7825) 23 (NA), pp. 689-698.

Preciado J, Ortiz J, Gonzalez J, Sierra R, Gordillo G. (2012) Selected from conference: Simulation of Synthesis gas production from steam oxygen gasification of Colombian Bituminous coal using Aspen Plus. *Energies* (ISSN 1996-1073) 5 (12), pp. 4924-4940.

Youngmi K, S.mosier N, R.ladisch M, Pallapolu V, Lee Y, Garlock R, Balan V, E.dale B, S.donohoe B, B.vinzant T, T.elander R, Falls M, Sierra R, T.holtzapple M, Jian S, A.ebrik M, Redmond T, Yang B, E.wyman C, Warner R. (2011) Comparative study on enzymatic digestibility of switchgrass varieties and harvests processed by leading pretreatment technologies. *Bioresource Technology* (ISSN 0960-8524) 102 (24), pp. 11089-11096.