

SHORT BIOGRAPHICAL SKETCH

PERSONAL INFORMATION:

Anil C. Banerjee, PhD
Professor of Chemistry
Assistant Chair/Graduate Coordinator
Department of Chemistry
Columbus State University
Columbus, GA 31909 (USA)
Email: banerjee_anil@columbusstate.edu

EDUCATION:

Senior Fulbright Post-Doc Fellow, University of Iowa
PhD in Chemistry, Indian Institute of Technology, Kharagpur
(Thesis title: Recovery of sulfur from metal sulfides; PhD mentor: Prof. N.D. Ganguly)
Master of Science in Chemistry, Indian Institute of Technology, Kharagpur
Bachelor of Science in Chemistry with honors, University of Calcutta

ACADEMIC APPOINTMENTS AND OTHER SIGNIFICANT WORK EXPERIENCE:

Full Professor of Chemistry with tenure, Columbus State University: 2014--Present
Associate Professor of Chemistry with tenure, Columbus State University: 2009-2013
Assistant Professor of Chemistry (tenure-track), Columbus State University: 2005-2008
Associate Professor of Chemistry (tenure-track), Texas A&M University (2002-2005)
Visiting Associate Professor of Chemistry & Science Education, Purdue University (2001-2002)

FIELD(S) or AREA(S) OF SPECIAL INTEREST WITHIN DISCIPLINE OR PROFESSION:

Teaching: General chemistry, undergraduate physical chemistry, graduate advanced physical chemistry, graduate advanced catalysis, selected topics in chemistry, graduate research seminar; graduate chemistry thesis research.

Research:

Area: Heterogeneous catalysis/ energy/ fuel/pollution control/ surface science

Surface characterization of palladium catalysts on aluminum oxide and mixed oxide supports by XPS and STEM

Low temperature catalytic oxidation of carbon monoxide

Low temperature catalytic oxidation of methane

Hydrogen storage and transport

MEMBERSHIP:

Member, American Chemical Society (2003---)

Member, American Association for the Advancement of Science (2013-)

Member, Division of Catalysis Science and Technology, American Chemical Society (2015-)

AWARDS, FELLOWSHIPS AND OTHER HONORS:

Chair, American Chemical Society Auburn Local Section (2016)

Columbus State University Educator of the Year (2012)
Senior Fulbright Post-Doc Fellow, University of Iowa
Fellow, Royal Society of Chemistry (UK)

RECENT GRANTS

2014-2015: PI and project director of a Federal Teacher Quality Grant: \$35, 970

2013-2014: PI and project director of a Federal Teacher Quality Grant "Project Guided Inquiry": \$36,914

2012: PI and project director of a Federal Teacher Quality Grant "Project Guided Inquiry": \$32, 298

2008-2009: PI and project director of a Federal Teacher Quality Grant: \$50,000

2008: Chemistry equipment grant award from Micromeritics Corporation: \$30,000

RECENT MANUSCRIPTS, PUBLICATIONS AND INTERNATIONAL CONFERENCE PAPERS [2013-2018]

Banerjee, A. C., McGuire, J. (2018). Activity and mechanism of methane oxidation over Pd/Al₂O₃ catalyst (Invited paper to be presented at the Natural Gas Symposium of The Division of the Energy and Fuels , American Chemical Society, 18-22 March , New Orleans, LA.)

McGuire, J. & Banerjee, A. C. (2017). Catalytic Oxidation of Methane: PdO vs. Non-Stoichiometric Pd_xO_y as the Active Phase (Paper to be presented at the SouthEast Regional Meeting of the American Chemical Society, 8-11, November, Charlotte, NC.).

Banerjee, A. C., McGuire, J., Gary, J., Bozack, M., (Manuscript in preparation). Preparation and characterization of palladium catalysts on aluminum oxide and mixed oxide supports.

McGuire, J. & Banerjee, A. C., (Manuscript in preparation). Kinetics and mechanism of methane oxidation by palladium catalysts on aluminum oxide and mixed oxide supports.

Gary, J. & Banerjee, A. C., (Manuscript in preparation). Kinetics and mechanism of carbon monoxide oxidation by palladium catalysts on aluminum oxide and mixed oxide supports.

Banerjee, A. C., McGuire, J., Gary, J., Bozack, M. (2017). Activity, XPS and STEM data of Pd/Al₂O₃ catalysts (Paper presented at a symposium of the Division of Catalysis Science and Technology, American Chemical Society National Meeting, 05 April, San Francisco, CA.)

Banerjee, A. C. (2015). From Discovery to Application: Innovations in heterogeneous catalysis and implementation in undergraduate research and teaching (Paper presented at a symposium, American Chemical Society National Meeting, 16-20, August, Boston, MA.).

Banerjee, A. C. (2014). Hydrogen uptake on supported palladium catalysts: Connecting research to curriculum and teaching (Paper presented at a CHED symposium, American Chemical Society Meeting, 16-20 March, Dallas, TX.).