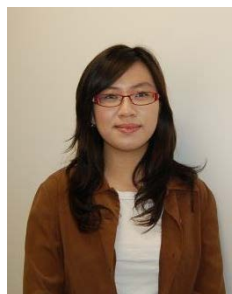


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Education

National Taiwan University, Taipei, Taiwan	Chemical Engineering	B.S., 2005
National Taiwan University, Taipei, Taiwan	Chemical Engineering	M.S., 2007
Clemson University, Clemson, South Carolina	Chemical Engineering	Ph.D., 2011

Professional Experience

2012–p Postdoctoral Research Associate, Chemical Functionality Group, Center for Nanophase Materials Sciences, Oak Ridge National Laboratory

2008–2011 Graduate Research and Teaching Assistant, Department of Engineering, Clemson University, South Carolina

2005–2007 Graduate Research Assistant, National Taiwan University, Taipei, Taiwan

Professional and Synergistic Activities

2008–2011 Member, Chemical Engineering Graduate Student Organization, Clemson University

Honors and Awards

2009 2nd Place, Poster Competition, “Co/Hydrotalcite Catalysts for CO Hydrogenation” Annual Southeastern Catalysis Society Meeting, Asheville, North Carolina

2008–2011 Ph.D. Full Scholarship, Department of Engineering, Clemson University, South Carolina

2005 Outstanding Achievement Award for Research Invention and Innovation, Ministry of Education, Taiwan

2004 Presidential Award, Top 5% Class Ranking, National Taiwan University, Taiwan

Recent Invited Talks and Contributed Conference Presentations

“Hydrotalcite Supported Co Catalysts for CO Hydrogenation,” Southeastern Catalysis Society Meeting, Asheville, North Carolina, September 2010

Publications (6 Publications in Refereed Journals) *Publication List Follows CV*

Research Synopsis

Correlate chemical functionality and catalytic performance in carbon catalysts by investigation of reaction pathways in oxidative dehydrogenation reactions and chemical and physical characterization of different forms of carbon-based catalysts.

Graduate and Postdoctoral Advisors:

Postdoctoral Advisor: Dr. Viviane Schwartz, Oak Ridge National Laboratory
Ph.D. Advisor: Prof. James G. Goodwin, Jr., Clemson University, South Carolina
Graduate Advisor: Prof. Ben-Zu Wan, National Taiwan University

PUBLICATIONS

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Peer-Reviewed Publications

- Y.-T. Tsai, X. Mo., J. G. Goodwin, Jr., "Synergy of Component in CuZnO and CuZnO/Al₂O₃ on Methanol Synthesis Analysis at the Site Level using SSITKA," *submitted 2012*.
- Y.-T. Tsai, X. Mo., J. G. Goodwin, Jr., "The Synthesis of Hydrocarbons and Oxygenates during CO Hydrogenation on CoCuZnO Catalysts: Analysis at Site Level using Multiproduct SSITKA," *Journal of Catalysis* **285**, 242-250 (2012).
- X. Mo, Y.-T. Tsai, J. Gao, D. Mao, J. G. Goodwin, Jr., "Effect of Component Interaction on the Activity of CoCuZnO for Co Hydrogenation," *Journal of Catalysis* **285**, 208-215 (2012).
- Y.-T. Tsai, J. G. Goodwin, Jr., "Comparison of Chemisorption Close to Ambient vs. under Reaction Conditions for Group VIII Metal Catalysts," *Journal of Catalysis* **281**, 128-136 (2011).
- J. Z. Zhang, Y.-T. Tsai, K. L. Sangkaewwattana, J. G. Goodwin, Jr., "Structure Sensitivity of Cyclopropane Hydrogenolysis on Carbon-Supported Platinum," *Journal of Catalysis* **280**, 89-95 (2011).
- Y.-T. Tsai, X. Mo, A. Campos, J. G. Goodwin, Jr., J. J. Spivey, "Hydrotalcite Supported Co Catalysts for CO Hydrogenation," *Applied Catalysis A: General* **396**(1-2), 91-100 (2011).