Name: Shuo Cao

Current Position/Title: Senior Research Chemist & Project Leader

Current Company/Department: North America R&D Center, Clariant BU- Catalyst

Current Address: 1600 W Hill Street, Louisville, KY

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Email: cao23@email.sc.edu

Professional Preparation:

Institution	Major/Area	Degree & Year
University of South Carolina	ChE/Heterogeneous Catalysis	Ph.D & 2016
University of South Carolina	ChE/Heterogeneous Catalysis	Master & 2013
Wuhan Institute of Technology	Biochemical Engineering	Bachelor & 2006

Professional Experience/Appointments

Years	Company/Department, Institution
2016.11-present	Clariant/Petrochemical
2016.5-2016.11	Clariant/Pilot Plant

Publications and Presentations:

- List up to 10 recent significant publications to be featured in two page CV, the rest will be included in website profile/full CV records

- Preferably using the style of the American Chemical Society for reference lists.

Ten significant publications
Cao, S.; Monnier, J. R.; Regalbuto, J. R., *J. Catal.*, **2017,** *347,* 72-78.
Cao, S.; Monnier, J. R.; Williams, C. T.; Diao, W.; Regalbuto, J. R., *J. Catal.* **2015,** *326*, 69-81.

Other Publications
Reference Module in Chemistry, Molecular Sciences and Chemical Engineering Comprehensive Inorganic Chemistry Ⅱ (Second Edition) From Elements to Applications 2013, Page 75-102, Volume 7: Surface Inorganic Chemistry and Heterogeneous Catalysis.

Presentations
A Systematic Study of Alkali Promotion of Alumina Supported Ruthenium for Levulinic Acid Hydrogenation to ɣ-Valerolactone (14th Annual Symposium of the Southeastern Catalysis Society, Clemson, South Carolina, 2015)
A Systematic Study of Alkali Promotion of Alumina Supported Ruthenium for Levulinic Acid Hydrogenation to ɣ-Valerolactone (250th ACS National Meeting & Exposition, Boston, MA, 2015)
A Systematic Study of Alkali Promotion of Alumina Supported Ruthenium for Levulinic Acid Hydrogenation to ɣ-Valerolactone (24th North American Catalysis Society Meeting, Pittsburgh, PA, 2015)
Study of Ruthenium Particle Size Effect on hydrogenation of Levulinic Acid (LA) to ɣ-Valerolactone (GVL) (8th International Conference on Environmental Catalysis, Asheville, North Carolina, USA 2014)
Rational Nanoparticle Synthesis to Study the Effects of Ruthenium Particle Size, Supports and Potassium Dopant for Levulinic Acid Hydrogenation to ɣ-Valerolactone (248th ACS National Meeting & Exposition, San Francisco, CA,2014)
Synthesis, Characterization of Bimetallic Ruthenium-Rhenium Catalysts by Strong Electrostatic Adsorption for Hydrogenation of Levulinic Acid to Gamma-Valerolactone (AIChE Annual Meeting, San Francisco, CA, 2013)
Effect of Nano-Particle Size, Support, and Potassium Dopant on Ruthenium Activity for Levulinic Acid Hydrogenation to Gamma-Valerolactone (12th Annual Symposium of the Southeastern Catalysis Society, Asheville, North Carolina, 2013)
Synthesis, Characterization and Application of Bifunctional Hydrophobic Ru/SBA-15 (Meeting of Interdisciplinary Research Team 4 (IRT 4) of University of Wisconsin-Madison-University of Puerto Rico-Mayaguez MRSEC & NSEC PREM 2010)
Synthesis, Characterization and Application of Bifunctional Hydrophobic Ru/SBA-15 (34th American Chemical Society Senior Technical Meeting 2010)

Synergistic Activities:

- List collaborative projects, leadership positions in organizing events, or significant work that involve interaction with members of a team

Postgraduate Research Projects - List all of your graduate/postdoc research projects here

Other Projects and Synergistic Activities

Collaborators and Other Affiliations

Collaborators from USC
Collaborators Outside USC (indicate institution)
Graduate and Postdoctoral Advisors - List all or your previous advisors and indicate institution
Professor John R. Regalbuto, Chemical Engineering Department, University of South Carolina Professor Nelson Martinez Cardona, Chemical Engineering Department, University of Puerto Rico, Mayaguez
Thesis Advisor and Postgraduate Sponsor - If you are in an academic position, list postdocs you've mentored, as well as graduate students. Indicate when they have earned or if they are working towards a degree. Also indicate most recent employment of former students/postdocs.