

PUBLICATIONS

1. Koehle, M., Saraci, E. and Lobo, R.F. "Production of para-methylstyrene and para-divinylbenzene from furanic compounds," *Submitted*.
2. Park, D.S., Joseph, K.E., Koehle, M., Krumm, C., Ren, L., Damen, J.N., Shete, M.H., Lee, H.S., Zuo, X., Lee, B., Fan, W., Vlachos, D.G., Lobo, R.F., Tsapatsis, M. and Dauenhauer, P.J. "Tunable Oleo-Furan Surfactants by Acylation of Renewable Furans." *ACS Central Science*, *In press*.
3. Koehle, M. and Lobo, R.F., "Lewis acidic zeolite Beta for the Meerwein-Ponndorf-Verley reduction of furfural", *Catalysis Science and Technology*, 6 (2016) 3018-3026.
4. Koehle, M. and Mhadeshwar, A.B., "Nanoparticle Catalysis for Reforming of Biomass-Derived Fuels", Steven Suib, Ed., *Catalysis by Nanoparticles*, Elsevier, 2013.
5. Wagner, E.P., Lambert, P.D., Moyle, T. M., and Koehle, M.A. "Diesel vehicle performance on unaltered waste soybean oil blended with petroleum fuels." *Fuel*, 107 (2013) 757-765.
6. Koehle, M. and Mhadeshwar, A.B., "Microkinetic Modeling and Analysis of Ethanol Partial Oxidation and Reforming on Platinum at Short Contact Times", *Chemical Engineering Science*, 78 (2012) 209-225.
7. Wagner, E.P., Koehle, M., Moyle, T.M., and Lambert, P.D., "Predicting temperature dependent viscosity for unaltered waste soybean oil blended with petroleum fuels", *Journal of the American Oil Chemists' Society*, 87 (2010) 453-459.

SELECTED PRESENTATIONS

1. Koehle, M. and Lobo, R.F., "Production of para-methylstyrene and para-divinylbenzene from furanic compounds", 252nd ACS National Meeting, Philadelphia, PA, August 21-25, 2016. **Second place, I&EC Graduate Student Award Symposium.**
2. Koehle, M. and Lobo, R.F., "Production of para-methylstyrene and para-divinylbenzene from furanic compounds", Gordon Research Conference on Catalysis, Colby-Sawyer College, New London, NH, June 12-17, 2016 (poster). **Poster competition winner.**
3. Koehle, M. and Lobo, R.F., "Friedel-Crafts acylation of furans", Pacifichem 2015, Honolulu, HI, December 15-20, 2015.
4. Koehle, M. and Lobo, R.F., "Catalytic transformation of biomass-derived compounds on Lewis acid-containing zeolites", 250th ACS National Meeting, Boston, MA, August 16-20, 2015.
5. Koehle, M. and Lobo, R.F., "Catalytic transformation of biomass-derived compounds on Lewis acid-containing zeolites", 24th North American Catalysis Society Meeting, Pittsburgh, PA, June 14-19, 2015 (poster).
6. Koehle, M., Moreno, A., and Mhadeshwar, A.B., "Microkinetic analysis of sustainable hydrogen production from catalytic reforming of biomass-derived oxygenates", 22nd North American Catalysis Society Meeting, Detroit, MI, June 5-10, 2011.

HONORS AND AWARDS

First Place, Catalysis Club of Philadelphia Student Poster Session, November 2016
Robert L. Pigford Teaching Assistant Award, University of Delaware, 2016
Saurabh A. Palkar Graduate Award for Mentoring, University of Delaware, 2015
National Science Foundation GK-12 Fellowship, August 2011- August 2012
North American Catalysis Society Meeting Kokes Travel Award, June 2011
National Science Foundation Graduate Research Fellowship, Honorable Mention, 2011
University of Connecticut CESE Multidisciplinary Environmental Summer Research Award, 2011
U.S. Department of Education GAANN Graduate Fellowship, August 2010-August 2011
Federal Aviation Administration Special Act Award, August 2009
University of Pittsburgh School of Arts and Sciences Small Grant, July 2008
University of Pittsburgh School of Engineering Dean's List: May 2007-May 2010
University of Pittsburgh Engineering Honors Scholarship: 2006-2010
University of Pittsburgh University Honors College Full Tuition Scholarship: 2006-2010