

Rudy Kahsar

EDUCATION:

- 2014 Ph.D. Chemical and Biological Engineering, University of Colorado Boulder
Thesis: *Modification of Supported Metal Catalysts with Thiol Self-Assembled Monolayers*
- 2010 B.S. Chemical Engineering, University of Virginia, *Summa cum laude*
Thesis: *Selective Hydrogenolysis of Decenoic Acid on Ruthenium Catalysts*

PROFESSIONAL EXPERIENCE:

- 2018-present Instructor: Masters of Environmental Management, University of Colorado at Boulder
- 2018-present Renewable and Sustainable Energy Track Lead, University of Colorado at Boulder
- 2018 Lecturer: Chemical Engineering, University of Colorado at Boulder
- 2016-2018 AAAS Science and Technology Policy Fellow: U.S. Department of Energy, Office of International Affairs and Office of Advanced Manufacturing, Washington D.C.
- 2015-2016 Navigant Consulting, Boulder Colorado
- 2014-2015 Post-doctoral researcher, University of Colorado at Boulder

TEACHING:

- Spring 2018 CHEN 3660: Energy Fundamentals
- Fall 2018 ENVM 5006: Energy Policy in the 21st Century
- Spring 2019 ENVM 6002: Capstone Innovation Lab (Advisor)
- Spring 2019 ENVM 6100: Water Energy Nexus

PUBLICATIONS:

Refereed Journal Articles:

5. **Karl R. Kahsar**, Daniel K. Schwartz, J. Will Medlin. "Stability of Self-Assembled Monolayer Coated Pt/Al₂O₃ Catalysts for Liquid Phase Hydrogenation of Cinnamaldehyde." *Journal of Molecular Catalysis A* 396 (2015): 188-195
4. **Karl R. Kahsar**, Stephanie Johnson, Daniel K. Schwartz, J. Will Medlin. "Hydrogenation of cinnamaldehyde over Pd/Al₂O₃ catalysts modified with thiol monolayers." *Topics in Catalysis* 57 (2014): 1-7
3. **Karl R. Kahsar**, Daniel K. Schwartz, J. Will Medlin. "Control of Metal Catalyst Selectivity through Specific Non-Covalent Molecular Interactions." *Journal of the American Chemical Society* 136 (2014): 520-526
2. **Karl R. Kahsar**, Daniel K. Schwartz, J. Will Medlin. "Selective Hydrogenation of Polyunsaturated Fatty Acids Using Alkanethiol Self-Assembled Monolayer Coated Pd/Al₂O₃ Catalysts." *ACS Catalysis* 3 (2013): 2041-2044
1. **Karl R. Kahsar**, Daniel K. Schwartz, J. Will Medlin. "Liquid- and vapor-phase hydrogenation of 1-epoxy-3-butene using self-assembled monolayer coated palladium and platinum catalysts." *Applied Catalysis A: General* 445-446 (2012): 102-106

Non-Refereed Publications:

5. **Rudy Kahsar.** “Progress Depends on Basic Science.” Richmond Times Dispatch, op-ed (2017).
4. **Rudy Kahsar.** “Marching for Science: The Blurry Line between Values and Facts.” AAAS S&T Policy, Sci on the Fly (2017).
3. **Rudy Kahsar.** “The Growing Role of Private Investment in Clean Energy.” AAAS S&T Policy, Sci on the Fly (2016).
2. **Rudy Kahsar.** “Building Climate Change Awareness from the Ground Up.” AAAS S&T Policy, Sci on the Fly (2016).
1. **Rudy Kahsar.** “The Role of Energy Efficiency in Oil and Gas Refineries.” Navigant Consulting Inc., Oil and Gas Notes (2015).