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SELECTED PUBLICATIONS:

Refereed Journals

- Gokulakrishnan, P., Ramotowski, M. J., Gaines, G., Fuller, C., Joklik, R., Eskin, L. D., Klassen, M. S. and Roby, R. J. (2008), "A Novel Low NO_x Lean, Premixed, and Prevaporized Combustion System for Liquid Fuels", *Journal of Engineering for Gas Turbines and Power*, Vol. 130.
- Gokulakrishnan, P., Gaines, G., Currano, J., Klassen, M. S. and Roby, R. J. (2007), "Experimental and Kinetic Modeling of Kerosene-Type Fuels at Gas Turbine Operating Conditions", *Journal of Engineering for Gas Turbines and Power*, Vol. 129, pp. 655–663.
- Gokulakrishnan, P., McLellan, P. J., Lawrence, A. D. and Grandmaison, E. W. (2005), "Kinetic Analysis and Model Reduction of NO-Sensitized Methane Oxidation", *Chemical Engineering Science*, Vol. 60, pp. 3683–3692.
- Gokulakrishnan, P., McLellan, P. J., Lawrence, A. D. and Grandmaison, E. W. (2004), "Application of Functional-PCA to Analyze and Reduce Complicated Chemical Mechanisms", *Computers and Chemical Engineering*, Vol. 30, pp. 1093–1101.
- Gokulakrishnan, P. and Lawrence, A. D. (1999), An Experimental Study of the Inhibiting Effect of Chlorine in a Fluidized Bed Combustor, *Combustion and Flame*, Vol. 116, pp. 640–652.
- Lawrence, A. D., Bu, J. and Gokulakrishnan, P. (1999), "The Interaction between SO₂, NO_x, HCl and Ca in a Bench-Scale Fluidized Combustor", *Journal of the Institute of Energy*, Vol. 72, pp. 34–40

Conference Proceedings

- Gokulakrishnan, P., Klassen, M. S. and Roby, R. J. (2008), "Ignition Characteristics of A Fischer-Tropsch Synthetic Jet Fuel", *Proceeding of the International Gas Turbine Institute*, ASME Turbo-Expo, Berlin, Germany, Paper # GT2008-51211.
- Gokulakrishnan, P., Gaines, G., Klassen, M. S. and Roby, R. J. (2007), "Autoignition of Aviation Fuels: Experimental and Modeling Study", 43rd AIAA/ASME/SAE/ASEE Joint Propulsion Conference & Exhibit, Cincinnati, OH, Paper# AIAA 2007-5701.
- Chaos, M., Zhao, Z., Kazakov, A., Gokulakrishnan, P., Angioletti, M. and Dryer, F. L. (2007), "A PRF+Toluene Surrogate Fuel Model for Simulating Gasoline Kinetics", *Proceedings of the Fifth US Combustion Meeting*, The Combustion Institute, San Diego, CA.
- Gokulakrishnan, P., Ramotowski, M. J., Gaines, G., Fuller, C., Joklik, R., Eskin, L. D., Klassen, M. S. and Roby, R. J. (2007), "Experimental Study of NO_x Formation in Lean, Premixed, Prevaporized Combustion of Fuel Oils at Elevated Pressures", *Proceeding of the International Gas Turbine Institute*, ASME Turbo-Expo, Montréal, Canada, Paper# GT2007-27552.
- Gokulakrishnan, P., S. Pal, M. S. Klassen, A. J. Hamer, R. J. Roby, O. Kozaka and S. Menon, 2006, "Supersonic Combustion Simulation of Cavity-Stabilized Hydrocarbon Flames using Ethylene Reduced Kinetic Mechanism", *AIAA/ASME/SAE 42nd Joint Propulsion Conference*, Sacramento, CA, Paper# AIAA 2006-5092.

- Klassen, M. S., P. Gokulakrishnan and S. Menon (2006) "Simulation of Cavity-Stabilized Ethylene Flames for Flameholding Predictions using Reduced Kinetic Mechanisms", *Joint Army-Navy-NASA-Air Force (JANNAF) Meeting*, San Diego, CA.
- Gokulakrishnan, P., Kwon, S., Hamer, A. J., Klassen, M. S. and Roby, R. J. (2006), "Reduced Kinetic Mechanism for Reactive Flow Simulation of Syngas/Methane Combustion at Gas Turbine Conditions", *Proceeding of the International Gas Turbine Institute*, ASME Turbo-Expo, Barcelona, Spain, Paper# GT2006-90573.
- Gokulakrishnan, P., Klassen, M. S. and Roby, R. J. (2005), "Development of Detailed Kinetic Mechanism to Study Low Temperature Ignition Phenomenon of Kerosene", *Proceeding of the International Gas Turbine Institute*, ASME Turbo-Expo, Reno, Nevada, Paper #GT2005-68268. (received best paper award from the Combustion & Fuel Committee of IGTI).
- Gokulakrishnan, P., Kazakov, A. and Dryer, F. L., 2003, "Comparison of Numerical and Experimental Kinetic Data for Flow Reactor Systems: Mixing Effects", *Proceedings of the Third US Combustion Meeting*, The Combustion Institute, Chicago, IL.
- Bu, J., Lawrence, A. D. and Gokulakrishnan, P. (1999), "A Study of the Combined S, N, HCl and Ca Chemistry in a Bench Scale Fluidized Combustor", *ASME 15th International Conference on Fluidized Bed Combustion*, Savannah, Georgia, Paper # FBC99-0072.
- Gokulakrishnan, P. and Lawrence, A. D. (1997), "A Detailed Study of the Role of Halogens in the Inhibition of Nitrogen Oxide Formation in Fluidized Bed Incinerators", *ASME 14th International Conference on Fluidized Bed Combustion*, Vancouver, British Columbia, pp 1123-1129.