

# Kenneth A. Smith

## Selected Publications

Zhang, Xuefeng, Kenneth A. Smith, Douglas R. Worsnop, Jose L. Jimenez, John T. Jayne, Charles E. Kolb, James Morris, and Paul Davidovits, "Numerical Characterization of Particle Beam Collimation: Part II Integrated Aerodynamic-Lens-Nozzle System", *Aerosol Science and Technology*, 38: 619-638, 2004.

Marrone, Philip A., Hodes, Marc, Smith, Kenneth A., and Jefferson W. Tester, "Salt precipitation and scale control in supercritical water oxidation-Part B: commercial/full-scale applications", *J. of Supercritical Fluids*, 29 (3), 289-312, May 2004.

Hodes, Marc, Marrone, Philip A., Hong, Glenn T., Smith, Kenneth A., Jefferson W. Tester, "Salt precipitation and scale control in supercritical water oxidation-Part A: fundamentals and research", *J. of Supercritical Fluids*, 29(3), 265-288, May 2004.

Hodes, Marc, Smith, Kenneth A., and Peter Griffith, "A Natural Convection Model for the Rate of Salt Deposition from Near-Supercritical, Aqueous Solutions", *Journal of Heat Transfer*, 125(6), 1027-1037, December 2003.

Shang, Tiangang, Smith, Kenneth A., and T. Alan Hatton, "Photoresponsive surfactants exhibiting unusually large, reversible surface tension changes under varying illumination conditions", *Langmuir* 19(26), 10764-10773, December 23, 2003.

Smith, Kenneth A., Hodes, Marc, Griffith, Peter, "On the Potential for Homogeneous Nucleation of Salt from Aqueous Solution In a Natural Convection Boundary Layer", *Journal of Heat Transfer*, 124(5), October 2002.

Vogel, Frédéric, Smith, Kenneth A., Tester, Jefferson W. and Peters, William A., "Engineering Kinetics for Hydrothermal Oxidation of Hazardous Organic Substances", *AIChE Journal*, 48, 8, 1827-1839, August 2002.

Procaccini, C., Bozzelli, J.W., Longwell, J.P., Sarofim, A.F. and K.A. Smith, "Formation of Chlorinated Aromatics by Reactions of Cl<sup>•</sup>, Cl<sub>2</sub> and HCl with Benzene In the Cool-down Zone of a Combustor", *Environ. Sci. Technol.* 2003, 37, 1684-1689.

Zhang, Xuefeng, Smith, Kenneth A., Worsnop, Douglas R., Jimenez, Jose L., Jayne, J.T., and Kolb, Charles E., "A Numerical Characterization of Particle Beam Collimation by an Aerodynamic Lens-Nozzle System: Part I: An Individual Lens or Nozzle", *Aerosol Science and Technology* 36, 617-631, 2002.

Procaccini, Carlo, Bozzelli, Joseph W., Longwell, John P., Smith Kenneth A., and Adel F. Sarofim, "Presence of Chlorine Radicals and Formation of Molecular Chlorine In the Post-Flame Region of Chlorocarbon Combustion", *Environmental Science & Technology*, 34(21), 2000.

Jayne, John T., Leard, Danna C., Zhang, Xuefeng, Davidovits, Paul, Smith, Kenneth A., Kolb, Charles E.,

and Worsnop, Douglas R., "Development of an Aerosol Mass Spectrometer for Size and Composition Analysis of Submicron Particles", *Aerosol Science and Technology*, 33(1), August 2000.

Von Gottberg, F. K., Smith, K. A., Hatton, T. A., "Dynamics of self-assembled surfactant systems", *J. Chem. Phys.*, 108 (5), 2232-2244 (1998).