

D.K. LEWIS PUBLICATIONS

BOOKS AND PAPERS SUBMITTED OR IN PREPARATION :

R. Deng, X. Zhang, K.A. Smith, J. Wormhoudt, D. Lewis, and A. Freedman, "Focusing Particles with Diameters of 1 to 10 Microns into Beams at Atmospheric Pressure," *Aerosol Sci. Technol.*, in press.

B.M. Neumann, B.L. Kalra, A. KC, J. Meade, and D.K. Lewis, "A Study of the Thermal Isomerization of Cyclopropylbenzene," in preparation.

B.L. Kalra, V. Hubbard, D. Mudzingwa and D.K. Lewis, "Thermal Kinetics of 1-chloro-1,1,2,3,3,3-hexafluoro propane and 2-chloro-1,1,1,3,3,3-hexafluoro propane," in preparation.

D.K. Lewis and N.L. Lewis, *Voices of Success; Experiences of Minority Students Preparing for Careers in Science, Engineering and Medicine*, in preparation.

D.K. Lewis, "New Dynamics of Theoretical and Laboratory Chemistry: how should we be teaching science?" in preparation.

H. Pinckett* and D.K. Lewis, "A Simple and Environmentally Sensitive Method for Examining the Thermodynamics of Electrochemical Cells," in preparation

D.K. Lewis, A. Hanley,* B.L. Kalra, M. Khalil,* G. Rauscher* and J. Rodriguez,* "Cis-Trans Isomerization Rates of Ethylene-1,2-d₂ at High Temperatures," in preparation.

D.K. Lewis, P. Batchelor,* W. Green,* A. Van-Praagh* and B.L. Kalra, "Pentadiene Formation During Cyclopentene Pyrolysis," in preparation.

RECENT PUBLISHED ARTICLES IN PEER-REVIEWED SCIENTIFIC JOURNALS:

E.S. Cross, J.G. Slowik, P. Davidovits, J.D. Allan, D.R. Worsnop, J.T. Jayne, D.K. Lewis, M. Canagranata, T.B. Onasch, "Laboratory and Ambient Particle Density Determinations using Light Scattering in Conjunction with Aerosol Mass Spectrometry," *Aerosol Sci. Technol.*, 2007, 41, 343-359.

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D.K. Lewis, T. Gray,* V. Katsva,* K. Parcella,* J. Schlier,* B.L. Kalra, J. Cho* and D. Mish,* "Kinetics of the Thermal Isomerization of 1,1,2,2-Tetramethylcyclopropane," *Int. Jour. Chem. Kinetics*, 2006, 38, 483-488.

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D.K. Lewis, D.A. Glenar, S. Hughes,* B.L. Kalra, J. Schlier,* R.S. Shukla and J.E. Baldwin, "Stereochemistry of the Thermal Retro Diels-Alder Reaction of cis-exo-5,6-d₂-Bicyclo[2.2.2]oct-2-ene," *J. Amer. Chem. Soc.*, 2001, 123, 996-997.

ADDITIONAL ARTICLES PUBLISHED IN PEER-REVIEWED JOURNALS:

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B.L. Kalra, K.G. Clark* and D.K. Lewis, "Preference for Structural vs. Geometric Isomerization in the BCl₃-Catalyzed Thermal Isomerizations of Gaseous 1,2-Dimethylcyclopropane," J. Phys. Chem., 1988, 92, 263-264.

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THESES AND TECHNICAL REPORTS:

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