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30. "Automotive Spark Ignition Engine Emission Control System to Meet the Requirements of the 1970 Clean Air Amendments" (one of several contributors), National Academy of Sciences Report, May 1973.

31. "Summary Report of Workshop on Energy-Related Basic Combustion Research" (with I. Glassman), Princeton University, June 19-21, 1974.

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34. "Preliminary Analysis of a Fuel Droplet in a Convective Field" (with S.Prakash), Joint Meeting of Central and Western States Sections/Combustion Institute, April 1975.

35. "Flat-Plate Combustion of Multi-Component Liquid Fuels" (with C.K. Law), Eastern Section/Combustion Institute Fall Technical Meeting, 1975.

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37. "Liquid Fuel Droplet Heating with Internal Circulation" (with S. Prakash), Central States Section/Combustion Institute Meeting, March 1977.

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45. "Laser-Doppler Velocimetry Measurements in a Simulated Engine Flow" (with A. Gany, J.A.C. Humphrey, J.I. Ramos and J.J. Larrea), Eastern Section/Combustion Institute Meeting, Miami Beach, FL, November 1978.

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61. "Heat Transfer in Sphere Assemblages at Intermediate Reynolds Numbers: A Cylindrical Cell Model" (with R. Tal), ASME Preprint 81-WA/HT-44, November 1981.

62. "Hydrodynamics and Heat Transfer in Sphere Assemblages: Multisphere Cylindrical Cell Models" (with R. Tal and D.N. Lee), American Institute of Aeronautics and Astronautics Aerospace Sciences Meeting, Orlando, FL, No. 82-0302, January 1982.

63. "The Ignition of Toluene/Air Mixtures by Burning Metal Particles" (with T.J. Stanley, K. Thallner, J. Witt, A. Yee and E.M. Suuberg), Eastern Section, Combustion Institute, Pittsburgh, PA, October 1981.

64. "Hydrodynamic and Heat Transfer Interactions in Particle Assemblages at Intermediate Reynolds Numbers" (with R. Tal (Thau) and D.N. Lee), Fourth International Conference on Physicochemical Hydrodynamics, New York, NY, June 1982.

65. "Computation of Laminar Spray Flames; Hybrid-Eulerian-Lagrangian Schemes" (with S.K. Aggarwal), Eastern Section, Combustion Institute Meeting, Atlantic City, NJ, 1982. Also see AIAA Preprint 81-0266, "Numerical Optimization Studies of Axi-Symmetric Unsteady Spray," January 1981.

66. "Spray Combustion in a Turbulent Environment" U.S.-Italy Joint Workshop on Heat Transfer and Combustion, Pisa, Italy, September 1982.

67. "Analysis of Vaporizing Droplet with Slip, Internal Circulation, and Unsteady Liquid-Phase and Quasi-Steady Gas-Phase Heat Tranfer" (with A. Y. Tong), ASME-JSME Thermal Joint Engineering Conference, Honolulu, HI, March 1983.

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69. "Ignition and Combustion of Liquid and Gaseous Hydrocarbon Fuels" (with H.T. Sommer), AFOSR Contractors' Meeting on Airbreathing Combustion Dynamics Research, Scottsdale, AZ, September 1983.

70. "Fuel Droplet Vaporization," <u>Proceedings of US-China Joint Workshop</u>, Peking, China, October 1983.

71. "Ignition of Air-Fuel Spray Mixtures by Hot Surfaces" (with S.K. Aggarwal), <u>Proceedings</u> of Fall Technical Meeting, Eastern Section/Combustion Institute, Providence, RI, November 1983.

72. "Ignition Studies of Liquid and Gaseous Hydrocarbon Fuels" (with H.T. Sommer), AFOSR/ONR Contractors' Meeting, Pittsburgh, PA, June 1984.

73. "A Numerical Technique for the Solution of the Vaporization of a Fuel Droplet" (with G. Patnaik, H.A. Dwyer and B.R. Sanders), Eastern Section/Combustion Institute Meeting, Clearwater Beach, FL, December 1984.

74. "Probability Density Function Calculations in Turbulent Round Jets, Mixing Layers and One-Dimensional Reactors" (with P. Givi and J.I. Ramos), Eastern States Section/Combustion Institute Meeting, Clearwater Beach, FL, December 1984.

75. "Report of the Peer Review Committee on the NASA Lewis Research Center Fundamentals of Combustion Program" (with several co-authors), December 1984.

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77. "Molecular Mixing in Turbulent Reacting Flow" invited paper, <u>Proceedings of Fall Technical</u> <u>Meeting, Eastern Section of The Combustion Institute</u>, Philadelphia, PA, November 1985. 78. "Axisymmetric, Transient Calculation for Two Vaporizing Fuel Droplets" (with G. Patnaik), Western States Section Technical Meeting of The Combustion Institute, Banff, Alberta, Canada, April 1986.

79. "Research Needs in Thermal Systems" Report of the Select Panel on Research Goals and Priorities in Thermal Systems (with W.O. Winer, A.E. Bergles, C.J. Cremers, R.H. Sabersky, and J.W. Westwater), prepared for the National Science Foundation, 1986. Also see <u>Mechanical Engineering</u>, August 1986.

80. "Combustion Fundamentals," Book Review for <u>Combustion and Flame</u>, Vol. 63, Numbers 1 & 2, p. 309, January-February 1986.

81. "Ignition of Fuel Sprays" (with H.T. Sommer and S.K. Aggarwal), Final Technical Report to the Air Force Office of Scientific Research, Washington, D.C., June 1986.

82. "Transient Spray Combustion Computations" <u>Proceedings of the First World Congress on</u> <u>Computational Mechanics</u>, Austin, TX, September 1986. Invited paper. (Abstract only).

83. "Analysis of Combustion Instability in Liquid-fueled Ramjets" SIAM Conference on Numerical Combustion, San Francisco, CA, March 1987. Invited paper. (Abstract only).

84. "Spray Combustion: A Driving Mechanism for Ramjet Combustion Instability" (with G.Riva, A.Tong, B.Abramzon, and K.Molavi), 23rd JANNAF Combustion Meeting, Langley, VA, October 1986.

85. "Oscillations in a Liquid-Fueled Combustor" Joint Meeting of the French and Italian Sections of The Combustion Institute, Amalfi, Italy, June 1987.

86. "Fundamental Studies on Spray Combustion and Turbulent Combustion" (with G.S. Samuelsen, M.S. Raju, R.H. Rangel, B.E. Stapper), AFOSR Technical Report, April 1988.

87. "Computational Analysis of Acoustic Instabilities in Dump Combustor Configuration" (with K. Molavi), Preprint No. 88-2856, AIAA/ASME 24th Joint Propulsion Conference, Boston, MA, July 1988.

88. "High-Tech Industries and the UCI School of Engineering" <u>High Technology</u>, Business To Business Magazine, Inc., pp. 12-13, August 1988.

89. "Spray Combustion Driving Mechanism for Ramjet Instability" (with K. Molavi), 25th JANNAF Combustion Meeting, Huntsville, AL, October 1988.

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91. "An Analysis of Molecular Mixing in a Vortical Structure: Bias in PDF Measurement" (with F. Miralles-Wilhelm and R. Rangel), Preprint No. 89-0482, AIAA 27th Aerospace Sciences Meeting, Reno, NV, January 1989.

92. "The Dynamics of Vortex Pairing and Merging," (with R.H. Rangel), Preprint No. 89-0128, AIAA 27th Aerospace Sciences Meeting, Reno, NV, January 1989.

93. "Behavior in Normal and Reduced Gravity of an Enclosed Liquid/Gas System with Nonuniform Heating from Above" (with H.D. Ross, D.N. Schiller, and P. Disimile), NASA Technical Memorandum 101471. Also see Preprint No. 89-0070, AIAA 27th Aerospace Sciences Meeting, Reno, NV, January 1989.

94. "Fundamental Studies on Spray Combustion and Turbulent Combustion" (with G.S. Samuelsen, R.H. Rangel, C.-H. Chiang, F. Miralles-Wilhelm, and B.E. Stapper), AFOSR Technical Report, February, 1989.

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96. "Review of Spray Combustion Theory," invited presentation for the Joint Meeting of the British and French Sections of The Combustion Institute, Rouen, France, April 1989.

97. "PDF Analysis of Molecular Mixing in Turbulent Flows" (with R.H. Rangel), (abstract only) SIAM 1989 Annual Meeting, San Diego, CA, July 1989.

98. "A Computational Fluid Dynamics Approach to Jet-Blast Atomization Studies" (with R.H. Rangel), invited presentation for 3rd Annual ILASS Conference on Liquid Atomization and Spray Systems, Irvine, CA, May 1989.

99. "Metal Slurry Droplet and Spray Combustion" (with C. M. Megaridis and R. Bhatia), Second ONR Propulsion Meeting Energetic Materials Combustion, Combustion Diagnostics and Under Water Propulsion, Irvine, CA, October 1989.

100. "Prediction of a Liquid Jet in a Gaseous Crossflow" (with F.H. Tsau and S.E. Elghobashi), AIAA/SAE/ASME/ASEE Joint Propulsion Conference, Orlando, FL, July 1990.

101. "Modelling of Vaporization-Controlled Incineration of Hazardous Wastes" (with J.-P. Delplanque, C.M. Megaridis, and R.H. Rangel), First International Congress on Toxic Combustion By-Products: Formation and Control, August 1989.

102. "Fundamental Studies on Spray Combustion and Turbulent Combustion" (with G.S. Samuelsen, R.H. Rangel, C.-H. Chiang, and B.E. Stapper), AFOSR Technical Report, January 1990.

103. "Study of Liquid Hydrogen and Liquid Oxygen Rocket Propellant Hazards" (with R.H. Rangel and C.M. Megaridis), Consultants Report to Professor T. Hirano, University of Tokyo, November 1989.

104. "Transverse Injection of Liquid and Gaseous Fuels Into Subsonic/Supersonic Flows" (with G.S. Samuelsen, D. Papamoschou, S.E. Elghobashi, F.H. Tsau, W. Sowa), AFWAL Annual Report, March 1990.

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109. "Heat and Mass Transfer in Liquid-Gas Spray Systems," ASME Winter Annual Meeting, Dallas, TX, November 1990.

110. "Fundamental Studies on Droplet Interactions in Dense Sprays" (with S.E. Elghobashi, I. Kim, and C.H. Chiang), AFOSR Annual Technical Report, December 1990.

111. "Oscillatory Behavior of LOX Droplet Stream Combustion in a Gaseous Hydrogen Flow" (with J.-P. Delplanque), Societe Europeenne de Propulsion Progress Report, December 1990.

112. "Ignition Delay of Gas Mixture Above a Liquid Fuel Pool" (with D. Schiller), Preprint No. 91-0717, AIAA 29th Aerospace Sciences Meeting, Reno, NV, January 1991.

113. "Axisymmetric Vaporizing Oxygen Droplet Computations" (with C.H. Chiang), Preprint No. 91-0281, AIAA 29th Aerospace Sciences Meeting, Reno, NV, January 1991.

114. "Future Directions in Engineering Education at the University of California" (with many coauthors), Advisory Committee for Planning Engineering Education, Office of the President, University of California, March 1991.

115. "Transcritical Phase Equilibrium Computations: Application to O_2/H_2 and N_2/H_2 Mixtures" (with J.-P. Delplanque), Societe Europeenne de Propulsion Report, July 1991.

116. "Aerodynamic Interactions Amongst Neighboring Droplets" (with C.H. Chiang, I. Kim, and S.E. Elghobashi), 4th International Symposium on Computational Fluid Dynamics, Davis, CA, September 1991.

117. "Computational Challenges in Spray Combustion," <u>Computers and Computing in Heat</u> <u>Transfer Science and Engineering</u> (W. Nakayama and K.T. Yang, eds.), CRC Press, Inc.; U.S.-Japan Heat Transfer Seminar, Oiso, Japan, October 1991.

118. "Fuel Droplet Vaporization in an Acoustic Field" (with A. Duvvur and C.H. Chiang), Fourth International Conference on Numerical Combustion, St. Petersburg, FL, December 1991.

119. "Metal Slurry Droplet and Spray Combustion" (with R. Bhatia), 28th JANNAF Combustion Meeting, Brooks Air Force Base, San Antonio, TX, October 1991.

120. "Numerical Simulation and Modelling of LOX Droplet Vaporization at Supercritical Conditions" (with J.-P. Delplanque, C.-H. Chiang), 28th JANNAF Combustion Meeting, Brooks Air Force Base, San Antonio, TX, October 1991.

121. "Ignition and Flame Spread Above Liquid Fuel Pools" (with D. Schiller), Western States Section/The Combustion Institute, UCLA, October 1991.

122. "Three-Dimensional Flow Interactions Between Two Neighboring Spheres" (with I. Kim, S.E. Elghobashi), 44th Annual Meeting of the Division of Fluid Dynamics of the American Physical Society, Scottsdale, AZ, November 1991.

123. "Oscillatory and Transcritical Vaporization of an Oxygen Droplet" (with J.-P. Delplanque), Preprint No. 92-0104, AIAA 30th Aerospace Sciences Meeting, Reno, NV, January 1992.

124. "Three-Dimensional Flow Computation for Two Interacting, Moving Droplets" (with I. Kim and S.E. Elghobashi), Preprint No. 92-0343, AIAA 30th Aerospace Sciences Meeting, Reno, NV, January 1992.

125. "Flame Propagation in Metal Slurry Sprays" (with R. Bhatia), WSS/CI92-54 1992 Fall Meeting of the Western States Section of The Combustion Institute, Livermore, CA, October 1992.

126. "Analysis of Shell Formation from a Vaporizing Metal Slurry Droplet" (with I. Ray), 1992 Fall Meeting of the Western States Section of The Combustion Institute, Livermore, CA, October 1992.

127. "Toward a Microgravity Research Strategy," (with R.F. Sekerka, R.A. Brown, F.D. Lemkey, J.R. Carruthers, and T.A. Steitz), Committee on Microgravity Research, Space Studies Board, National Research Council, 1992.

128. "Metal Slurry Droplet and Spray Combustion," (with R. Bhatia), 5th ONR Propulsion Meeting, Arlington, VA, September 1992.

129. "Task One Report" submitted to Pratt & Whitney, 1993.

130. "Transverse Injection of Liquid and Gaseous Fuels into Subsonic/Supersonic Flow," (with D. Papamoschou and G.S. Samuelsen), AFWAL Final Report, October 1992.

131. "Metal Slurry Droplet and Spray Combustion, ONR Final Technical Report, September 1993.

132. "Energetic Fuel Droplet Gasification with Liquid-Phase Reaction," (with R. Bhatia), 6th ONR Propulsion Meeting, Boulder, CO, August-September 1993.

133. "Metal Slurry Droplet and Spray Combustion," (with R. Bhatia), 6th ONR Propulsion Meeting, Boulder, CO, August-September 1993.

134. "Microgravity Research Opportunities for the 1990s," Chair of authoring committee, Space Studies Board, National Research Council, 1995.

135. "Droplet-Turbulence Interactions Over a Wide Spectral Range," (with I. Kim and S.E. Elghobashi), presented at the AFOSR Propulsion Contractors' Meeting, Lake Tahoe, NV, June 1994.

136. "Energetic Fuel Droplet Gasification with Liquid-Phase Reaction," (with Q.H. Zhu, D. Schiller, R. Bhatia), Seventh ONR Propulsion Meeting, Buffalo, NY, August 1994.

137. "Metal Slurry Droplet and Spray Combustion," (with R. Bhatia), Zel'dovich Memorial International Conference on Combustion, Moscow Region, Russia, September 1994.

138. "Droplet Arrays and Streams," (with R.H. Rangel, D. Dunn-Rankin, and M.E. Orme), International Union of Theoretical and Applied Mechanics, Symposium on Combustion, Tainan, Taiwan, December 1994.

139. "Nonlinear Capillary Kelvin/Helmholtz Waves on Thin Liquid Sheets," (with C. Mehring), ILASS Americas '95 Meeting, Troy, MI, May 1995.

140. "Strukturen Laminarer Sprayflammen in der Gegenstromkonfiguration," (with E. Gutheil), Verbrennung und Feuerungen-17, Deutscher Flammentag, Hamburg-Harburg, Germany, September 12-13, 1995.

141. "Energetic Fuel Droplet Gasification with Liquid-Phase Reaction," (with D. Schiller and R. Bhatia), ONR Contractors' Meeting, UC San Diego, October 1995.

142. "Flame Spread with Concurrent Air Flow Across n-Propanol Pools," (with D.N. Schiller), Fall Western States Section of The Combustion Institute, Palo Alto, CA, October 1995.

143. "Vortex-Droplet Interaction Influencing Convective Droplet Heat Transfer," abstract (with M. Masoudi), 48th Annual Meeting of The American Physical Society, Irvine, CA, November, 1995.

144. "A Modified Equation for the Motion of a Spherical Particle," abstract (with I. Kim and S. Elghobashi), 48th Annual Meeting of The American Physical Society, Irvine, CA, November 1995.

145. "Droplet-Turbulence Interactions Over A Wide Spectral Range," (with S.E. Elghobashi, I. Kim and M. Masoudi), AFOSR Final Technical Report, February 1996.

146. "Nonlinear Travelling Wave Distortion of a Thin Liquid Sheet," (with C. Mehring), ILASS Americas '96, San Francisco, CA, May 1996.

147. "Nonlinear Distortion and Disintegration of Liquid Sheets for Pressure Atomization System," (with C. Mehring and I. Kim), AFOSR/ARO Contractors' Meeting, Virginia Beach, VA, June 1996.

148. "Energetic Fuel Droplet Oxidation with Liquid-Phase Decomposition," (with D. Schiller and J. Li), 9th ONR Propulsion Meeting, Alexandria, VA, September 1996.

149. "Fundamentals of Fuel Ignition and Flammability," National Research Council, Workshop on Aviation Fuels with Improved Fire Safety, Washington, DC, November 1996.

150. "Symmetric Distortion of a Thin Liquid Sheet with Infinite Length," (with C. Mehring and I. Kim), ILASS Americas '97 Meeting, Ontario, Canada, May 1997.

151. "Symmetric Distortion of a Thin Liquid Sheet with Semi-infinite Length," (with C. Mehring), ILASS Americas '97 Meeting, Ontario, Canada, May 1997.

152. "Three-dimensional Nonlinear Temporal Stability of an Infinitely Long Thin Liquid Sheet," (with I. Kim), ILASS Americas '97 Meeting, Ontario, Canada, May 1997.

153. "Selected Challenges in Jet and Rocket Engine Combustion Research," (with J.-P. Delplanque and F. Liu), 33rd AIAA/ASME/SAE/ASEE Joint Propulsion Conference, Seattle, WA, July 1997.

154. "Capillary Waves on Thin Planar Liquid Sheets," (with C. Mehring), DFD97 Meeting of the American Physical Society, San Francisco, CA, November 1997.

155. "Simultaneous Effect of Vortex Advection and Temperature Stratification on Droplet Heating," (with M. Masoudi), DFD97 Meeting of the American Physical Society, San Francisco, CA, November 1997.

156. "Unsteady Flame Propagation Beyond Steady Flammability Limits," Seventh International Conference on Numerical Combustion, St. John's College, York, U.K., March 1998 (abstract only).

157. "Nonlinear Distortion of Infinitely Long Thin Planar and Annular Liquid Sheets," (with C. Mehring), 11th ILASS Americas '98 Meeting, Sacramento, CA, May 1998.

158. "Nonlinear Distortion of Semi-Infinitely Long Thin Planar and Annular Liquid Sheets," (with C. Mehring), 11th ILASS Americas '98 Meeting, Sacramento, CA, May 1998.

159. "Three-Dimensional Symmetric Distortion of Thin Liquid Sheets," (with I. Kim), 11th ILASS Americas '98 Meeting, Sacramento, CA, May 1998.

160. "Energetic Fuel Droplet Gasification with Liquid-Phase Reaction," (with D.H. Schiller), ONR Final Technical Report, May 1998.

161. "Axisymmetric and Planar Flame Spreads Across Propanol Pools," (with I. Kim), Poster Paper 27th International Symposium on Combustion, Boulder, CO, August 1998.

162. "Nonlinear Distortion and Disintegration of Liquid Sheets for Pressure Atomization Systems," (with C. Mehring and I. Kim), ARO/AFOSR Contractors' Meeting in Chemical Propulsion, Long Beach, CA, June/July 1998.

163. "Opposed-Flow Flame Spread Across Propanol Pools: Effect of Liquid Fuel Depth," (with I. Kim), Joint Meeting of the US Sections, The Combustion Institute, Washington, March 1999.

164. "Three-dimensional Anti-symmetric Distortion of Modulated Semi-infinite Thin Liquid Sheets," (with I. Kim), ILASS Americas '99 Meeting, Indianapolis, IN, May 1999.

165. "Three-dimensional Symmetric Distortion of Modulated Semi-infinite Thin Liquid Sheets," (with I. Kim), ILASS Americas '99 Meeting, Indianapolis, IN, May 1999.

166. "Axisymmetric Distortion of Thin Annular Liquid Sheets," (with C. Mehring), ILASS Americas '99 Meeting, Indianapolis, IN, May 1999.

167. "Flame Spread Across Liquids: Numerical Modelling," (with I. Kim and H. Li), NASA Microgravity Combustion Conference, Cleveland, OH, May 1999.

168. "Review of Theory of Distortion and Disintegration of Liquid Streams," (with C. Mehring), 30th AIAA Fluid Dynamics Conference, Norfolk, VA, June-July, 1999.

169. "Flame Spread Across Liquids: 3-Dimensional Numerical Modelling," (with H. Li), 1999 Fall Combustion Institute Western States Meeting.

170. "Collision of a Vortex with a Vaporizing Droplet," (with M. Masoudi), American Physical Society, Division of Fluid Dynamics New Orleans, Louisiana, November 1999.

171. "Nonlinear Distortion and Disintegration of Conical Liquid Sheets at High Pressure" (with C. Mehring), extended abstract, ARO/AFOSR Contractors' Meeting, Santa Fe, NM, June 2000.

172. "Comments on Energy Conservation in Liquid-Stream Disintegration" (with C. Mehring), presented at ICLASS 2000, July 16-20, Pasadena

173. "Planar-Liquid-Stream Distortion from Kelvin-Helmholtz and Capillary Effects" (with C. Mehring), presented at ICLASS 2000, July 16-20, Pasadena

174. "Flame Spread Across Liquids: 3D Numerical Modelling," (with H. Li), Poster paper at The International Combustion Symposium. July 2000.

175. "Conical and Annular Free Liquid Film Instabilities," (with C. Mehring), Plenary Lecture, ILASS-Europe, Darmstadt, Germany, Sept. 2000.

176. "Nonlinear Three-dimensional Distortion and Disintegration of Conical Liquid Films," (with C Mehring), abstract only, APS Fluid Dynamics Meeting, Washington, D.C., November 2000.

177. "Liquid Film Disintegration Due to Gas Jet Impact," (with C. Mehring), abstract only, APS Fluid Dynamics Meeting, Washington, D.C., November, 2000.

178. "Ignition and Flame Studies for Turbulent Transonic Mixing in a Curved Duct Flow," with (J. Cai, O. Icoz, and F. Liu), AIAA preprint 2001-0189, 39th AIAA Aerospace Science Meeting, Reno, Nevada, January 2001.

179. "Ignition and Flame Studies for a Turbulent Accelerating Transonic Mixing Layer" (with C. Mehring and F. Liu), AIAA preprint 2001-1096, 39th AIAA Aerospace Sciences Meeting, Reno, Nevada, January 2001.

180. "Opportunities and Challenges of Turbine Burners," Plenary Lecture, 41st Israel Annual Conference on Aerospace Sciences, Haifa, February 21-22, 2001.

181. "Combustion in a Transonic Flow with Large Axial and Transverse Pressure Gradients," (with J. Cai, O. Icoz, F. Liu), 2nd Joint Meeting of the US Sections of The Combustion Institute, Oakland, CA, March 26-28, 2001.

182. "Three-Dimensional Flame Propagation Above Liquid Fuel Pools," (with J. Cai, F. Liu), 2nd Joint Meeting of the US Sections of The Combustion Institute, Oakland, CA, March 26-28, 2001.

183. "Free Planar Liquid Films Impacted by Gas Jets," (with C. Mehring), ILASS 2001, Dearborn, Michigan, May 20-23, 2001.

184. "Three-Dimensional Capillary Stability of Modulated Swirling Liquid Films," (with C. Mehring), ILASS 2001, Dearborn, Michigan, May 20-23, 2001.

185. "Three-Dimensional Ignition and Flame Propagation Above Liquid Fuel Pools: Computational Analysis," (with J. Cai, F. Liu), Sixth International Microgravity Combustion Workshop, Cleveland, Ohio, May 22-24, 2001.

186. "Nonlinear Distortion and Disintegration of Conical Liquid Sheets at High Pressure," (with C. Mehring), ARO/AFOSR Contractors' Meeting, Los Angeles, CA, June 18-19, 2001.

187. "Combustion in a Transonic Flow with Large Axial and Transverse Pressure Gradients," (with J. Cai, O. Icoz, and F. Liu) 18th International Colloquium on Dynamics of Explosions and Reactive Systems, Seattle, WA, August 2001.

188. "Miniature Combustor with Liquid-Fuel Film" (with D. Dunn-Rankin, B. Strayer, and T. Pham), preprinted for Western States Section/Combustion Institute Fall Meeting, Salt Lake City UT, October 2001.

189. "Accelerating Turbulent Methane-Air Reacting Mixing-Layer Computation," (with F. Lui, C. Mehring), abstract only, APS Fluid Dynamics Meeting, San Diego, CA, November 2001.

190. "Dynamic Straining of Viscous Liquid Film," (with J. Xi, C. Mehring), abstract only, APS Fluid Dynamics Meeting, San Diego, CA, November 2001.

191. "Primary Atomization of Liquid Film Discharging From Twin-Fluid Atomizer" (with C. Mehring), abstract only, APS Fluid Dynamics Meeting, San Diego, CA November 2001.

192. "Analysis of Miniature Liquid-Film Combustor," preprinted for Eastern States Section Combustion Institute Fall Meeting, Hilton Head, SC, December 2001.

193. "A New Gas Turbine Engine Concept for Electricity Generation with Increased Efficiency and Power" (with F. Liu), Final Report to California Energy Commission, 2002.

194. "Turbine Burners: Ignition and Flame-Holding in High Acceleration Flows," Plenary Lecture, Western States Section/Combustion Institute Spring Meeting, San Diego, CA, March 2002.

195. "Further Development on Miniature Scale Liquid-Fuel Film Combustion," (with T.K. Pham and D. Dunn-Rankin), Western States Section/Combustion Institute Spring Meeting, San Diego, CA, March, 2002.

196. "Opposed Flow Impact on Flame Spread Above Liquid Fuel Pools," (with J. Cai and F. Liu) Western States Section/Combustion Institute Spring Meeting, San Diego, CA, March 2002.

197. "Dynamic Stretching of a Thin Planar Liquid Bridge," (with C. Mehring and J. Xi), ILASS 15th Annual Conference, Madison, WI, May 2002.

198. "Nonlinear Distortion and Disintegration of Conical Liquid Sheets at High Pressure," (with C. Mehring), ARO/AFOSR Contractors Meeting, Dayton, OH, June 2002.

199. "Combustor Miniaturization With Liquid Fuel Filming," (with S. Stanchi and D. Dunn-Rankin), AIAA Preprint 2003-1163, Aerospace Sciences Meeting, Reno, Nevada, January 2003.

200. "Linearized Analysis of Liquid Film Combustor" (with S. Stanchi), Proceedings of the 3rd Joint Meeting of the US Sections of the Combustion Institute, Chicago, Illinois, March 2003.

201. "Combustion Efficiency of a Miniature Fuel Film Combustor" (with T.K. Pham and D. Dunn-Rankin), Proceedings of the 3rd Joint Meetings of the US Sections of the Combustion Institute, Chicago, Illinois, March 2003.

202. "Ligament Shedding From Discharging Free Planar Liquid Film" (with C. Mehring), Proceedings of ILASS 2003, Monterey, CA, May 2003.

203. "Computational and Experimental Studies of Three-Dimensional Flame Spread Over Liquid Fuel Pools" (with J. Cai, F. Liu, and F.J. Miller), Proceedings of 7th Microgravity Workshop, Cleveland, Ohio, May 2003.

204. "Current Status of Spray Combustion Modelling," Invited Paper, AIAA Preprint 2003-4784, Joint Propulsion Conference, Huntsville, Alabama, July 2003.

205. "Liquid-Film Combustor: Perturbation Analyses for the Effects of Swirl, Stefan Flow, and Gas Expansion" (with S. Stanchi), Poster Presentation at 19th ICDERS, Hakone, Japan, July 2003.

206. "Vaporization and Combustion in Three-dimensional Droplet Arrays" (with R. Imaoka), Proceedings of Western States Section/Combustion Institute Fall Meeting, Los Angeles, CA, October 2003.

207. "Computational Investigation of a Miniature Liquid-fuel-film Combustor" (with C. Mehring, T.K. Pham, and D. Dunn-Rankin), Proceedings of Western States Section/Combustion Institute Fall Meeting, Los Angeles, CA, October 2003.

208. "Theoretical Foundations for the Analysis of Laminar and Turbulent Spray Flows" Proceedings of Western States Section/Combustion Institute Fall Meeting, Los Angeles, CA, October 2003.

209. "Numerical Simulations of an Accelerating Reacting Mixing Layer in Transition" (with F. Cheng and F. Liu) APS Fluid Dynamics Meeting, East Rutherford, New Jersey, November 2003.

210. Book Review of "Modeling Engine Spray and Combustion" by G. Stiesch for AIAA Journal, Vol. 42, March 2004, p. 669.

211. "Numerical Study of a Miniature Liquid-Fuel-Film Combustor" (with T.K. Pham, C. Mehring, D. Dunn-Rankin) Paper 04S-10, Proceedings of Western States Section/Combustion Institute Spring Meeting, Davis, CA, March 2004.

212. "Fuel-Droplet-Array Burning with Asymmetry and Droplet-Size Variation" (with R. Imaoka) Paper 04S-41, Proceedings of Western States Section/Combustion Institute Spring Meeting, Davis, CA, March 2004.

213. "Linearized Analysis of Liquid-Film Combustor" (with S. Stanchi and R. Imaoka) abstract only, SIAM Numerical Combustion Meeting, Sedona, AZ, May 2004.

214. "Progress in Miniature Liquid Fuel Film Research," (with T.K. Pham, J.E. Papac, D. Dunn-Rankin), poster paper, 30th International Symposium on Combustion, Chicago, IL. July, 2004.

215. "Nonpremixed Combustion in an Accelerating Transonic Flow Undergoing Transition" (with F. Cheng, F. Liu), AIAA Aerospace Sciences Meeting, Reno, NV, January 2005.

216. "Transient Vaporization and Burning in Dense Droplet Arrays," (with R.Imaoka), Joint Meeting of the US Sections of the Combustion Institute, Philadelphia, March 2005.

217. Liquid-Film Combustion in Small Cylindrical Chambers," (with T.K. Pham, N. S. Amade, D. Dunn-Rankin), Joint Meeting of the US Sections of the Combustion Institute, Philadelphia, March 2005.

218. "Simulation and Experiments of a Liquid Fuel Film Burning off of a Flat Plate," (with Y.-H. Li, J. Papac, D. Dunn-Rankin), Joint Meeting of the US Sections of the Combustion Institute, Philadelphia, March 2005.

219. "A Generalized Analysis for Dense Sprays," (with R.Imaoka), ILASS 2005, Irvine, CA, May, 2005.

220. "Computations for Liquid-fuel Combustion: Sprays, Pools, and Films," Plenary Lecture Invited Paper, European Community on Computational Methods in Applied Sciences Conference on Computational Combustion, Lisbon, June 2005.

221. "Film Combustion in Small Cylinders," (with T.K. Pham, D. Dunn-Rankin), ICDERS 2005, Montreal, August 2005.

222. "Liquid Fuel Burning with Non-unitary Lewis Number," Paper 05F-52 Proceedings of the Western States Section / Combustion Institute Fall Meeting, Stanford University, October 17-18, 2005.

223. "Non-Premixed Combustion in an Accelerating Transonic Flow Undergoing Transition," (with F. Cheng, F. Liu), APS Fluid Dynamics Meeting, Chicago, Illinois, November 2005.

224. "Recent Advances in Spray Combustion Theory," Preprint AIAA2006-1522 Aerospace Sciences Meeting, Reno, NV, January 2006.

225. "Identification of Promising Naval Aviation Science and Technology Opportunities," (coauthored with fifteen other members of the NRC Committee on Identification of Promising Naval Aviation Science and Technology Opportunities), National Research Council, March, 2006.

226. "Turbine Burners: Turbulent Combustion of Liquid Fuels," (with F. Liu, D. Dunn-Rankin), preprinted for AFOSR/ ARO Contractors' Meeting, Arlington, VA., June, 2006.

227. "Break-up of Liquid Streams at High Pressures," (with D. D. Joseph), preprinted for AFOSR/ARO Contractors' Meeting, Arlington, VA., June, 2006.

228. "Instabilities in a Turning Reacting Mixing Layer Undergoing Transition," (with F. Cheng, F. Liu), APS Fluid Dynamics Meeting, Tampa, Florida, November 2006.

229. "Cavitation in an Orifice Flow," (with S. Dabiri, D. D. Joseph), Preprint AIAA 2006-1178, Aerospace Sciences Meeting, Reno, NV, January 2007.

230. "Non-Premixed Combustion in an Accelerating Turning, Transonic Flow Undergoing Transition," (with F. Cheng, F. Liu), Preprint AIAA Aerospace Sciences Meeting, Reno, NV, January 2007.

231. "Miniature Combustor with Liquid-Fuel Film," (with D. Dunn-Rankin), NSF Final Report, February 2007.

232. "Theoretical Issues in Droplet Array Vaporization and Burning," Paper # D01, 5th US Combustion Meeting, UC San Diego, March 25-28, 2007.

233. "Fuel/Air Mixing in a Model Turbine Burner Section," (with N. Sarzi-Amade and D. Dunn-Rankin) Paper # E02, 5th US Combustion Meeting, UC San Diego, March 25-28, 2007.

234. "Combustion in a Flow Cavity," (with B. Colcord), poster paper, 5th US Combustion Meeting, UC San Diego, March 25-28, 2007.

235. "Breakup of a Laminar Axisymmetric Liquid Jet," (with S. Dabiri and D. D. Joseph), ILASS meeting, May 2007.

236. "Breakup of Liquid Streams at High Pressures," (with S. Dabiri and D. D. Joseph), AFOSR/ARO Contractors Meeting, June 2007.

237. "Turbine Burners: Turbulent Combustion of Liquid Fuels," (with F. Liu and D. Dunn-Rankin), AFOSR/ ARO Contractors Meeting, June 2007.

238. "Miniature Fuel-Film Combustor: Flame Confinement and Stability," (with R. Mattioli, T. K. Pham and D. Dunn-Rankin), 21st ICDERS, Poitiers, France, July 23-27, 2007.

239. "Final Report: Literature Review on Formation and Atomization of Emulsions," (with S. Abbilian, C. D. Bolszo, A. A. Narvaez, D. Dunn-Rankin, and V. G. McDonell), Report to Siemens Power Corporation, July, 2007.

240. Flame Spread User Manual, (with F. Cheng, C. Mehring, and F. Liu) a report to NASA on three-dimensional flame-spread code, August 2007.

241. Flame Spread Documentation Report, (with F. Cheng, C. Mehring, and F. Liu) a report to NASA on three-dimensional flame-spread code, August 2007.

242. "Recent Theoretical Advances for Liquid-fuel Atomization and Burning," Plenary Lecture Paper, Seventh International Symposium on Special Topics in Chemical Propulsion: Advancements in Energetic Materials & Chemical Propulsion, Kyoto, Japan, September, 2007.

243. "Multicomponent-Liquid-Fuel Vaporization with Complex Configuration," (with G. Wu), preprinted for Western States Section/ Combustion Institute Meeting, Sandia Laboratories, October 2007.

244. "Combustion Model with Fuel Injection into and Air Flow past a Cavity," (with B. Colcord), preprinted for Western States Section/ Combustion Institute Meeting, Sandia Laboratories, October, 2007.

245. "Experimental and Numerical Investigation of a Model Turbine-Burner," (with S. Puranam, B. Colcord, J. Arici, D. Dunn-Rankin) Western States Section/The Combustion Institute Spring Meeting paper 08S-41, University of Southern California, Los Angeles, March 17–18, 2008.

246. "Growth and Collapse of Cavitation Bubbles in Viscous Flow through an Orifice," (with S. Dabiri, D. D. Joseph), preprinted for ILASS Americas 21th Annual Conference on Liquid Atomization and Spray Systems, Orlando, Florida, May 18-21, 2008.

247. "Combustion and Flameholding in a Turbine Burner Configuration: An Experimental and Numerical Exploration of Reacting Flow in a Curving Contracting Channel," (with J. Arici, S. V. Puranam, B. Colcord, D. Dunn-Rankin), poster paper, 32nd International Combustion Symposium, 2008.

248. "Effects of Cavitation on the Breakup of Liquid Jets: Bubble Growth, Distortion, and Collapse in an Orifice Flow," (with S. Dabiri and D. D. Joseph), AIAA Preprint 2009-0996, 47th Aerospace Sciences Meeting, Orlando, FL January 5-8, 2009.

249. "Convective Vaporization and Burning of Droplet Arrays," (with G. Wu), 6th US National Combustion Meeting, Ann Arbor, MI, May 18-20, 2009.

250. "Flame-holding with Fuel Injection into Cavity Adjacent to Air Channel," (with B. Colcord and F. Liu), 6th US National Combustion Meeting, Ann Arbor, MI, May 18-20, 2009.

251. "One-dimensional Spray Combustion Optimization with a Sequential Linear Quadratic Algorithm," (with J. A. Sirignano, L. Rodriquez, and A. Sideris), 6th US National Combustion Meeting, Ann Arbor, MI, May 18-20, 2009.

252. "Breakup of Liquid Streams at High Pressure," (with D. D. Joseph), Extended Abstract for ARO/AFOSR Contractors Meeting, National Harbor, MD, June 2009.

253. "Generation and Pressure Atomization of Water-in-oil Emulsions for Gas Turbines," (with C.D. Bolszo, A.A. Narvaez, S. Abbilian, A. Jepsen, D. Dunn-Rankin, and V.G. McDonell), ICLASS 2009, 11th Triennial International Annual Conference on Liquid Atomization and Spray Systems, Vail, Colorado USA, July 2009.

254. "Cavitation Bubbles in Shear Flow," (with S. Dabiri and D. D. Joseph), ICLASS 2009, 11th Triennial International Annual Conference on Liquid Atomization and Spray Systems, Vail, Colorado USA, July 2009.

255. "Progress on UCI Liquid Film Miniature Combustor," (with D. Dunn-Rankin), Preprinted for Joint Propulsion Conference, Denver, Colorado, August 2009.

256. "Turbine Burners: Flameholding in Accelerating Flow," (with D. Dunn-Rankin, F. Liu, B. Colcord, and S. Puranam), Preprinted for Joint Propulsion Conference, Denver, Colorado, August 2009.

257. "Oil/Water Emulsion Mixing and Atomization Characterization: Final Report to Siemens," (with C.D. Bolszo, A.A. Narvaez, S. Abbilian, D. Dunn-Rankin, and V.G. McDonell), July 2009.

258. "Turbine Burners: Turbulent Combustion of Liquid Fuels – Final AFOSR Report," (with D. Dunn-Rankin, F. Liu, B. Colcord, and S. Puranam, August, 2009.

259. "Flame-holding in Cavity Adjacent to Accelerating, Turning Flow Channel," (with B. J. Colcord and F. Liu), Paper 09F-18, Fall Technical Meeting, Western States Section of the Combustion Institute, Irvine, CA, October 26-27, 2009.

260. "Pressure Atomization of Water-in-Oil Emulsions for Gas Turbines," (with C. D. Bolszo, A. A. Narvaez, S. Abbilian, A. Jespen, V. G. McDonell, and D. Dunn-Rankin), Paper 09F-46, Fall Technical Meeting, Western States Section of the Combustion Institute, Irvine, CA, October 26-27, 2009.

261. "Transient Burning of a Convective Fuel Droplet," (with G. Wu), Paper 09F-84, Fall Technical Meeting, Western States Section of the Combustion Institute, Irvine, CA, October 26-27, 2009.

262. "Transient Convective Burning of Fuel-Droplet Arrays," (with G. Wu). Spring Technical Meeting, Western States Section of the Combustion Institute, University of Colorado at Boulder, March 21-23, 2010

263. "Breakup of Water-in-Oil Emulsions in Liquid Jets and Conical Sheets," (with C. D. Bolszo, M. Rohani, A. A. Narvaez, D. Dunn-Rankin, and V. G. McDonell), 22nd ILASS Meeting, Cincinnati, OH, May 2010.

264. "Pressure Swirl Atomization of Water-in-Oil Emulsions," (with C. D. Bolszo, A. A. Narvaez, D. Dunn-Rankin, and V. G. McDonell), 22nd ILASS Meeting, Cincinnati, OH, May 2010.

265. "Flameholding in a Cavity Adjacent to an Accelerating Air Channel," (with B. Colcord and F. Liu), US National Combustion Meeting, Atlanta, GA, March, 2011.

266. "Theoretical Developments in Group Combustion of Droplets and Sprays," abstract only, 13th International Conference on Numerical Combustion, Korfu, Greece, April, 2011.

267. "Transient High-pressure Fuel Injection Processes," (with D. Jarrahbashi and S. Dabiri), ILASS Meeting, Ventura, CA, May 2011.

268. "Transient High-pressure Fuel Injection Processes," (with D. Jarrahbashi), Extended Abstract for ARO/AFOSR Contractors Meeting, Williamsburg, VA, June 2011.

269. "Flame Stabilization with Fuel Injection into a Cavity Adjacent to a Curved, Converging Air-flow Channel," (with B. Colcord, F. Liu) 23rd ICDERS, Irvine, CA July, 2011.

270. "UCI Liquid Film Miniature Combustor," (with D. Dunn-Rankin), invited talk, AIAA Aerospace Sciences Meeting, Nashville, TN, January 9-12, 2012. Abstract only.

271. "Turbine-Burner Model: Cavity Flameholding in a Converging, Turning Channel Flow," (with Ben J. Colcord and Feng Liu), Joint Propulsion Conference, Atlanta, July 29- August 1, 2012.

272. "Effects of Acceleration on Jet Instability in High-pressure Fuel Injection Processes," (with D. Jarrahbashi), ICLASS Meeting, Heidelberg, September 2012.

273. "Reduced Basis and Stochastic Modeling of Liquid Propellant Rocket Engine as a Complex System," (with A. Sideris, S. Menon, R. Munipalli, D. Ota, D. R. Kassoy), Space Propulsion and Power Program Review, Arlington VA., 10-13 September 2012.

274. "Transient High-Pressure Fuel Injection Processes," ARO Grant W911NF-09-1-0208, Final Report (with D. Jarrahbashi), November 21, 2012.

275. Book review of "Small Wind Turbines: Analysis, Design and Application," by D. Wood, Springer Verlag. AIAA Journal 2013. doi: 10.2514/1.J052296

276. "Two-dimensional Model for Liquid-Rocket Transverse Combustion Instability," (with P. Popov), AIAA Aerospace Sciences Meeting, Grapevine, Texas, January 2013.

277. "Three-dimensional Segment Analysis of Transient Liquid Jet Instability," (with D. Jarrahbashi), ILASS Meeting, Pittsburgh, PA, May 2013.

278. "Theoretical Developments for Spray Formation, Vaporization, and Burning," Keynote Lecture, Abstract only, ILASS Meeting, Pittsburgh, PA, May 2013.

279. "Stochastic Modeling of Transverse Wave Instability in a Liquid Propellant Rocket Engine," (with P. Pavel and A. Sideris), Joint Propulsion Conference, San Jose, CA, July 2013.

280. "Solid Fuel Regression Rate Modeling for Hybrid Rockets," (with F. M. Favaró, M. Manzoni, A. Coronetti, and L. T. DeLuca), 5th European Conference for Aeronautics and Space Sciences, Munich, July 2013.

281. "Transient Liquid Injection," Invited Lecture, abstract only, American Physical Society Fluid Dynamics Annual Meeting, Pittsburgh, PA November, 2013.

282. "Propellant Injector System Influence on Rocket Engine Combustion Instability," (with P. P. Popov and A. Sideris), AIAA Aerospace Sciences Meeting, National Harbor, MD, January 2014.

283. "Triple flame: Inherent Asymmetries and Pentasectional Character," (with A. Jorda Juanos), Western States Section/ Combustion Institute Meeting, March 2014, Pasadena, CA.

284. "Uncertainty Quantification of Non-linear Oscillation Triggering in a Multi-injector Liquid-propellant Rocket Combustion Chamber," (with P. P. Popov and A. Sideris), American Physical Society Fluid Dynamics Meeting, November 2014, San Francisco, CA. Abstract only.

285. "Combustion Instability: Triggering, Transients, and Limit Cycles," US National Combustion Meeting, Cincinnati OH, May 2015.

286. "Early Spray Development at High-Pressure: Hole, Ligament, and Bridge Formations," (with D. Jarrahbashi, P. Popov, F. Hussain), ILASS Meeting, Raleigh, NC May 2015.

287. "Triggering and Re-stabilizing Potential of Acceleration Pulses in Liquid-Propellant Rocket Motors," (with P. P. Popov and A. Sideris), Joint Propulsion Conference, July 2015.

288. "Wave Dynamics for Transverse Acoustic Instabilies in a Rectangular Rocket Motor," (with P. P. Popov), Joint Propulsion Conference, July 2015.

289. "Thermodynamic Analysis for Combustion at High Gas Densities," (with A. Jorda Juanos), ICDERS, Leeds, UK, 2015.

290. "Nonlinear Two-time-scale Perturbation Theory for Transverse Combustion Dynamics," ICDERS, Leeds, UK, 2015.

291. "Three-dimensional Planar Liquid Sheet Breakup," (with A. Zandian and F. Hussain), AIAA Science and Technology Forum and Exposition, San Diego. January, 2016.

292. "Counterflow Analysis for Combustion at High Pressure," (with A. Jorda Juanos and P. P. Popov), AIAA Science and Technology Forum and Exposition, San Diego. January, 2016.

293. "Low-Probability Events Leading to Rocket Engine Combustion Instability," (with P.P. Popov and A. Sideris), AIAA Science and Technology Forum and Exposition, San Diego. January, 2016.

294. "Mechanisms, Role of Vorticity, and Time Scales for Planar Liquid Sheet Breakup," (with A. Zandian and F. Hussain), APS Fluid Dynamics Meeting, Portland, Oregon, November 20-22, 2016.

295. "Temporal Length-scale Cascade and Expansion Rate on Planar Liquid Jet Instability," (with A. Zandian and F. Hussain), APS Fluid Dynamics Meeting, Portland, Oregon, November 20-22, 2016.

296. "Simulation of Liquid-Propellant Rocket Longitudinal Combustion Instability," (with T. M. Nguyen and P.P. Popov), AIAA Science and Technology Forum and Exposition, Gaylord, TX. January, 2017.

297. "Analytical / Computational Approach to Liquid Injection at Supercritical Pressures," (abstract only) Invited for the Minisymposium *Recent Progress and Opportunities in Modeling and Simulations of Supercritical Combustion*, 2017 SIAM International Conference on Numerical Combustion, Orlando, FL, April 3-5, 2017.

298. "Extinction Analysis of a Methane-Oxygen Counterflow Flame at High Pressure," (with A. Jordà Juanós), 10th U.S. National Combustion Meeting, College Park, MD, April 23–26, 2017.

299. "Planar Liquid Sheet Breakup Mechanisms, Time Scales, and Length Scale Cascade," (With A. Zandian and F. Hussain), ILASS-Americas 29th Annual Conference on Liquid Atomization and Spray Systems, Atlanta, GA, May 2017.

300. "Explaining the Planar Liquid Jet Atomization via Vortex Dynamics," (With A. Zandian and F. Hussain), ILASS-Americas 29th Annual Conference on Liquid Atomization and Spray Systems, Atlanta, GA, May 2017.

301. "Diffusion Flame at High Pressure with Air and Water-laden Methane," (with A. Jorda Juanos), ICDERS, Boston, August, 2017.

302. "Mechanisms, Vorticity, and Time and Length Scales for Liquid Stream Breakup," (with A. Zandian and F. Hussain), ILASS Europe-2017, Valencia, Spain, September 2017.

303. "Analytical / Computational Approach to Liquid Spray Heating and Vaporization at Supercritical Pressures," (with A. Jorda Juanos), ILASS Europe-2017, Valencia, Spain, September 2017.

304. "Normal Shocks with High Upstream Pressure", (abstract only), APS Fluid Dynamics Meeting, Denver, Colorado, November 19-21, 2017.

305. "Vortex Dynamics of a Spatially Developing Liquid Round Jet", (with A. Zandian and F. Hussain), ICLASS 2018, Chicago, Illinois, 2018.

306. "Liquid-Gas Equilibrium and Interface Dynamics at Supercritical Pressure", (with J. Poblador Ibanez), ICLASS 2018, Chicago, Illinois, 2018.

307. "Spontaneous and Triggered Longitudinal Combustion Instability in a Single-Injector Rocket Engine", (with T.M. Nguyen), Joint Propulsion Conference, Cincinnati, Ohio, 2018.

308. "Nonlinear Combustion Instability in a Multi-Injector Rocket Engine", (with J. Xiong, T. H. Morgan, J. Krieg, and F. Liu), Joint Propulsion Conference, Cincinnati, Ohio, 2018.

309. "Neural Network Closure Models for Estimating Flame Variables in a Liquid-Propellant Rocket Engine," (with Z. Shadram, T. M. Nguyen, A. Sideris), AIAA Scitech Forum, San Diego, January 2019.

310. "A Neural Network Based Flamelet Model for a Liquid-propellant Rocket Engine with Partially-premixed Flame," (with Z. Shadram, T. M. Nguyen, A. Sideris), US National Combustion Meeting, Pasadena, CA, March 2019.

311. "Analysis of an Axisymmetric Liquid Jet at Supercritical Pressures", (with J. Poblador-Ibanez), ILASS-Americas 30th Annual Conference on Liquid Atomization and Spray Systems, Tempe, AZ, May 2019.

312. "Normal Strain Rate and Pressure Effects using Detailed and Global Chemistry Models in a CH₄-Air Counterflow Flame," (with C-F. López-Cámara, A. Jordà Juanós), Western States Meeting, Albuquerque, N. M., October 2019.

313. "Three-Dimensional Counterflow Combustion with Multiple Flames," Western States Combustion Institute Meeting, Albuquerque, N. M., October 2019.

314. "Vorticity Dynamics for a Spatially Developing Liquid Jet within a Co-flowing Gas," (with A. Zandian, F. Hussain), APS Fluid Dynamics Meeting, Seattle, WA, November 2019.