

Stanford

Mark Godfrey Mungal

Professor of Mechanical Engineering, Emeritus

Bio

ACADEMIC APPOINTMENTS

- Emeritus Faculty, Acad Council, Mechanical Engineering

Publications

PUBLICATIONS

- **Single- and dual-band collection toluene PLIF thermometry in supersonic flows** *EXPERIMENTS IN FLUIDS*
Miller, V. A., Gamba, M., Mungal, M. G., Hanson, R. K.
2013; 54 (6)
- **Plasma-assisted stabilization of laminar premixed methane/air flames around the lean flammability limit** *COMBUSTION AND FLAME*
Bak, M. S., Do, H., Mungal, M. G., Cappelli, M. A.
2012; 159 (10): 3128-3137
- **The improvement of blowout limit in partially/fully premixed flames with geometrically modified bluffbody bases** *EXPERIMENTS IN FLUIDS*
Kim, W., Do, H., Mungal, M. G.
2011; 51 (5): 1315-1328
- **The influence of boundary layers on supersonic inlet flow unstart induced by mass injection** *EXPERIMENTS IN FLUIDS*
Do, H., Im, S., Mungal, M. G., Cappelli, M. A.
2011; 51 (3): 679-691
- **Visualizing supersonic inlet duct unstart using planar laser Rayleigh scattering** *EXPERIMENTS IN FLUIDS*
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2011; 50 (6): 1651-1657
- **DAMKOHLER NUMBER SIMILARITY FOR STATIC FLAME STABILITY IN GASEOUS-FUELED AUGMENTOR FLOWS** *COMBUSTION SCIENCE AND TECHNOLOGY*
El-Asrag, H. A., Pitsch, H., Kim, W., Do, H., Mungal, M. G.
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- **Plasma assisted flame ignition of supersonic flows over a flat wall** *COMBUSTION AND FLAME*
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- **Plasma assisted cavity flame ignition in supersonic flows** *COMBUSTION AND FLAME*
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- **Flame liftoff height dependence on geometrically modified bluffbodies in a vitiated flow** *EXPERIMENTS IN FLUIDS*
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- **Concentration flux measurements in a polymer drag-reduced turbulent boundary layer** *JOURNAL OF FLUID MECHANICS*
Somandepalli, V. S., Hou, Y. X., Mungal, M. G.
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- **A Study of Plasma-Stabilized Diffusion Flames at Elevated Ambient Temperatures** *IEEE TRANSACTIONS ON PLASMA SCIENCE*
Kim, W., Do, H., Mungal, M. G., Cappelli, M. A.
2008; 36 (6): 2898-2904
- **Jet Flame Ignition in a Supersonic Crossflow Using a Pulsed Nonequilibrium Plasma Discharge** *IEEE TRANSACTIONS ON PLASMA SCIENCE*
Do, H., Mungal, M. G., Cappelli, M. A.
2008; 36 (6): 2918-2923
- **Optimal discharge placement in plasma-assisted combustion of a methane jet in cross flow** *COMBUSTION AND FLAME*
Kim, W., Do, H., Mungal, M. G., Cappelli, M. A.
2008; 153 (4): 603-615
- **Streamwise development of turbulent boundary-layer drag reduction with polymer injection** *JOURNAL OF FLUID MECHANICS*
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White, C. M., Mungal, M. G.
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Kim, W., Do, H., Mungal, M. G., Cappelli, M. A.
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