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Title: Effects of CO<sub>2</sub>/N<sub>2</sub> dilution on laminar burning velocity of stoichiometric DME-air mixture at elevated temperatures

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**HIGHLIGHTS**

1. Laminar burning velocities of the stoichiometric DME-air mixture with N<sub>2</sub>/CO<sub>2</sub> dilution are measured.
2. The computational results are validated against the experimental results.
3. Power-law correlations are proposed for the laminar burning velocities
4. Thermal and chemical effects of CO<sub>2</sub> dilution on laminar burning velocity are observed.

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