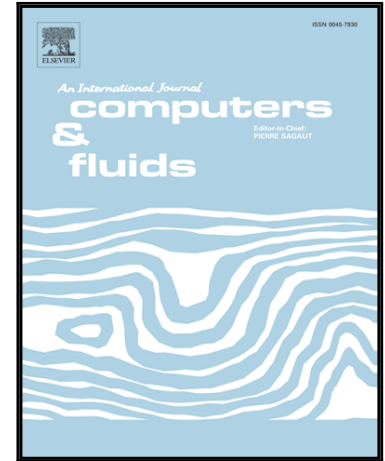


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Direct Numerical Simulation Study of Hydrogen/Air Auto-ignition in Turbulent Mixing Layer at Elevated Pressures

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**Highlights**

- DNS of H<sub>2</sub>-air mixing layer auto-ignition is performed under pressures 1-30 atm
- At high pressures, HO<sub>2</sub> can be used as an indicator for locating ignition spots
- At high pressures, scalar dissipation has little influence on radical explosion

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