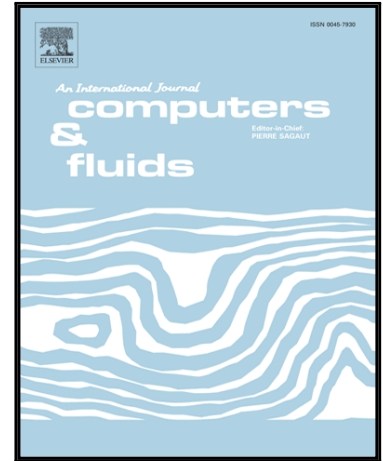


## Accepted Manuscript

An efficient flamelet progress-variable method for modeling non-premixed flames in weak electric fields

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**Highlights**

- A flamelet model for simulating flames interacting with electric fields is proposed.
- The framework can handle various chemical mechanism and species transport models.
- The model is able to reduce the computational cost of the simulation up to 40 times.
- The model provides a good agreement with the results present in the literature.

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