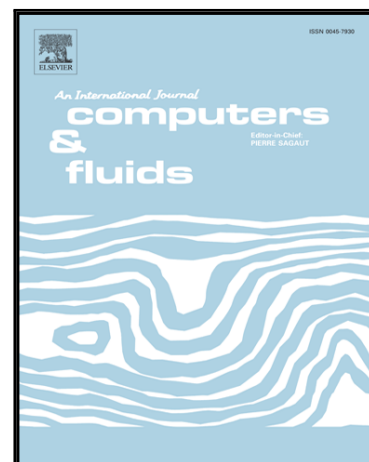


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CFD study on laminar mixing at a very low Reynolds number by pitching and heaving a square cylinder

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**Highlights**

- A CFD study on the mixing between two fluids at a very low Reynolds has been conducted;
- Mixing mechanism by pitching and heaving a square cylinder in a channel is analysed;
- Single and multi-objective optimization have been carried out;
- Optimum pitching and heaving frequencies and amplitudes and phase difference have been found;

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