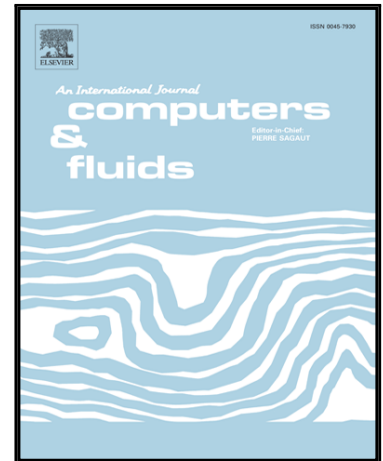


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Numerical study on splashing of high-speed microdroplet impact on dry microstructured surfaces

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Highlights

- We simulate the splashing of the micro-droplet impact on textured surface consisting of micro-pillars.
- We use adaptive mesh refinement technique to capture thin spreading lamella, droplet breakup, and small features of microstructured surface.
- We find that a large portion of the thin lamella actually surfs over the top of pillars during spreading
- We find that both impact velocity and surface morphology play an important role in the splashing phenomenon.

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