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Second-order accurate immersed boundary-discrete unified gas kinetic scheme for fluid-particle flows

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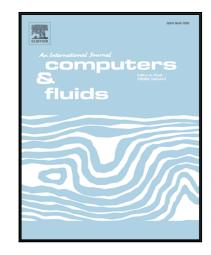
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Highlights

- An IBM based on the distribution function correction is proposed.
- The new IBM is successfully combined with DUGKS.
- Application range of DUGKS is extended to particle suspension flows.

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