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Cratering efficiency on coarse-grain targets: implications for the dynamical evolution of asteroid 25143 Itokawa

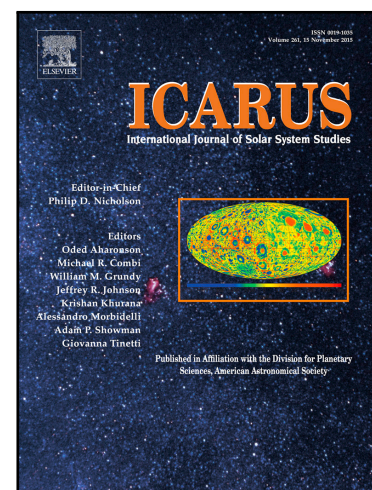
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Highlights

- Cratering experiments on coarse-grained targets are performed.
- A new crater size scaling on coarse-grained targets is derived.
- Projectile size and impact energy contribute to change cratering modes.
- The crater retention age of Itokawa is estimated to be 10–33 Myr.
- The crater age of Itokawa suggests a recent global resurfacing in the main belt.

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