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Rough Surfaces: is the dark stuff just shadow? “Who knows what evil lurks in the hearts of men? The Shadow knows!”

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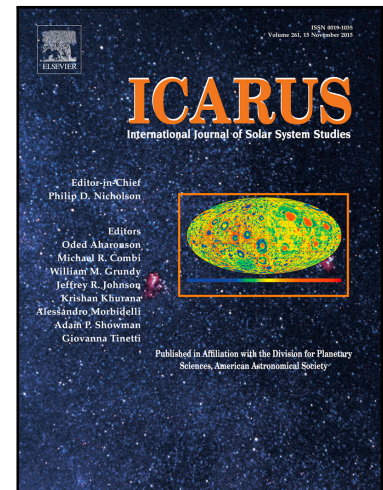
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## Highlights

- The observed “albedo” of a particle is frequently modeled to infer its composition.
- Models used to date mostly assume smooth-surfaced particles.
- However, observations suggest particles have rough and shadowed surfaces.
- We derive a way to incorporate roughness into improved models of particle composition

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