

## Accepted Manuscript

Title: Characterization of irregularly micro-structured surfaces related to their wetting properties

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**Highlights**

- Irregular micro-structure is characterized by volume ratio through 3D measurement
- The volume ratio illustrates 3D the contact information of liquid-solid interfaces
- The irregular Si surface produces hydrophobicity with decreasing volume ratio
- The volume ratio may be used to predict the wettability of irregular surfaces

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