



4<sup>th</sup> International Symposium on  
**E**nergy **C**hallenges & **M**echanics  
- working on small scales

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### Speaker of Session 20

## CRYSTAL GROWTH AND ITS ENERGY AND ENVIRONMENTAL APPLICATIONS



Dr. Takaomi Suzuki  
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Shinshu University.

From 2001, Dr. Suzuki started experimental measurement of specific surface free energy of single crystals at Shinshu University. Although specific surface free energy is believed to be significant value to discuss morphology of crystal, and there are a lot of theoretical studies, experimental determination of specific surface free energy of crystal is very few.

Dr. Suzuki and his group members performed experimental research to determine specific surface free energy of single crystals using contact angle of liquid droplet, and reported some experimental studies of specific surface free energy for as-grown face of apatite, ruby, and quartz single crystals. Recently, the study is extended to cleaved alkali halides and crucible materials.

