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Step free energy of inorganic single crystal suraface

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Specific surface free energy of inorganic single crystal was experimentally determined by contact angle of liquid droplet on the crystal surface, and comopared with eth equilibrium grown length of each face. The relationship between specific surface free energy of the faces of the indivitual crystal with the same index and the equilibrium grown length of the face was linear. The difference of the specific surface free energy for the face of the same index can be explained by the differnce of step lengh on the crystal surface.

Keywords: crystal surface, crystal growth, free energy