

凝聚态物理 北京大学论坛

2018年第14期 (No. 435 since 2001)

Understanding the interfacial growth mechanism is essential for controlling the film morphology and properties. However, a straightforward picture of the growth mode under different growth conditions is still lacking. In this talk, I will introduce a comprehensive interfacial growth theory based on the stochastic approach. Using a critical interisland separation, we construct a general phase diagram of the growth modes. Both first-principle calculations and experiments with zinc oxide growth by chemical vapor deposition have been utilized to demonstrate the theoretical model. Besides, I will also introduce our systematic work about the influence of the strain on the growth structure and defects formation.

• 2001 2003 2013 1996 2001-2003 2010 2012-

邀请人: xzli@pku.edu.cn

<http://www.phy.pku.edu.cn/~icmp/forun/2018/2018chun.xml>

Photoed by Xiaodong Hu