Charged Cluster Model

- 10. Small clusters undergo epitaxial recrystallization and deposit as high quality diamond crystals.
 → tend to be accommodated to the substrate structure.
- 11. Medium-size clusters made twins or stacking faults.
- 12. Large clusters deposit as a cauliflower structure.
- 13. High substrate temperature enhances epitaxial recrystallization and is favorable for deposition of epitaxial films.
- 14. Low substrate temperature enhances non-epitaxial recrystallization and is favorable for deposition of nano-structure or cauliflower structure.





































