

Supporting Information:

Microwave-assisted Synthesis of Various ZnO Hierarchical Nanostructures:

Effects of Heating Parameters of Microwave Oven

Pengli Zhu, Jingwei Zhang, Zhishen Wu and Zhijun Zhang*

Key Laboratory for Special Functional Materials, Ministry of Education, Henan University, Kaifeng 475004, People's Republic of China

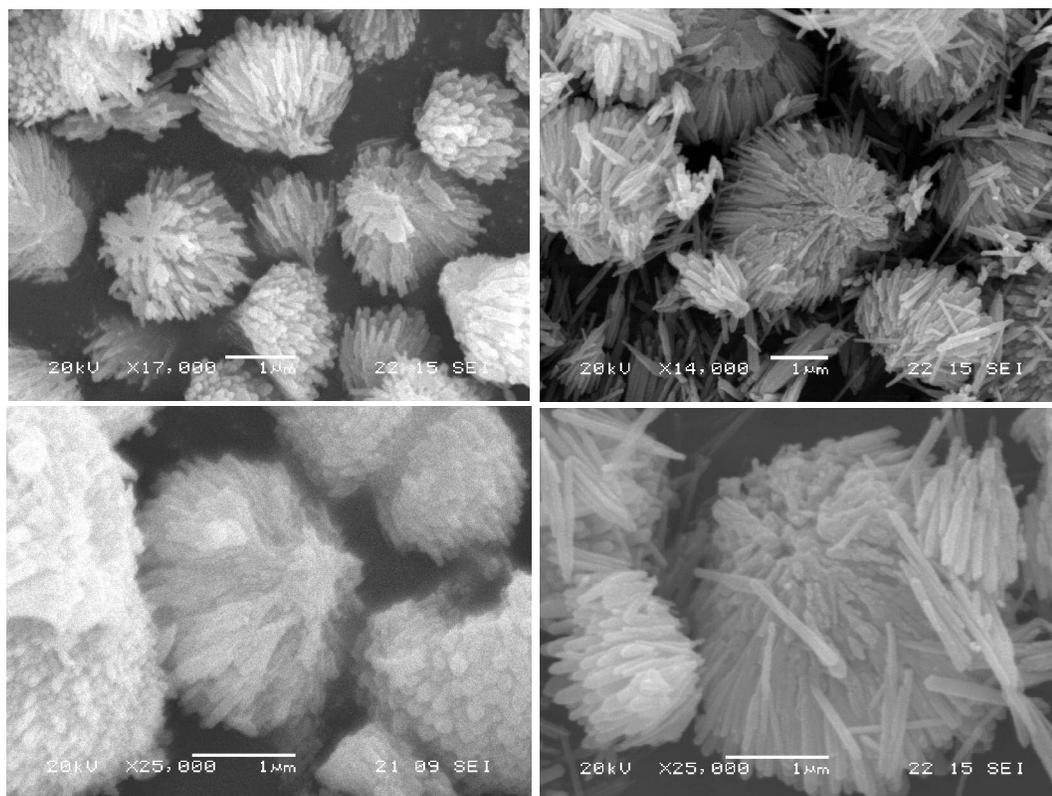


Figure S-1 SEM images of the “etched” wide chrysanthemum like Architectures.

Figure S1 shows that if the density of nanorods on each wide chrysanthemum like architectures is large, the bottom or the initial particles part look like “etched”. This result proved that the growth of secondary nanorods is at the expense of the dissolution of the initial particles.

*Corresponding author. E-mail: wuzhishen@henu.edu.cn or jwzhang@henu.edu.cn.

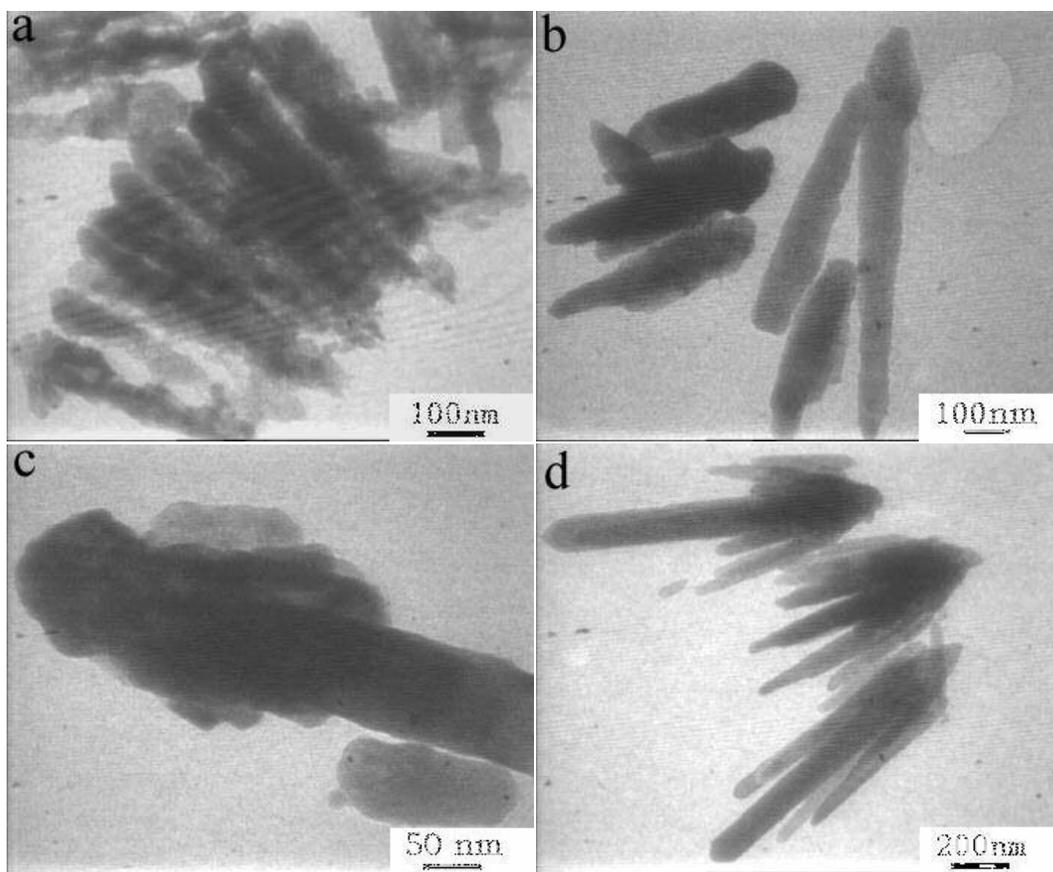


Figure S-2 TEM images of the oat-arista like structure as a function of reaction time: (a) transferred to microwave irradiation 2 min, showing that there are a lot of defects on the primary nanorods; (b) transferred to microwave irradiation 10 min, (c) high magnification image of (b), the surrounding nuclei selectively absorb on the defects at one end of the nanorod as a new seed and growth site for the nanorods branches; (d) transferred to microwave irradiation 30 min.