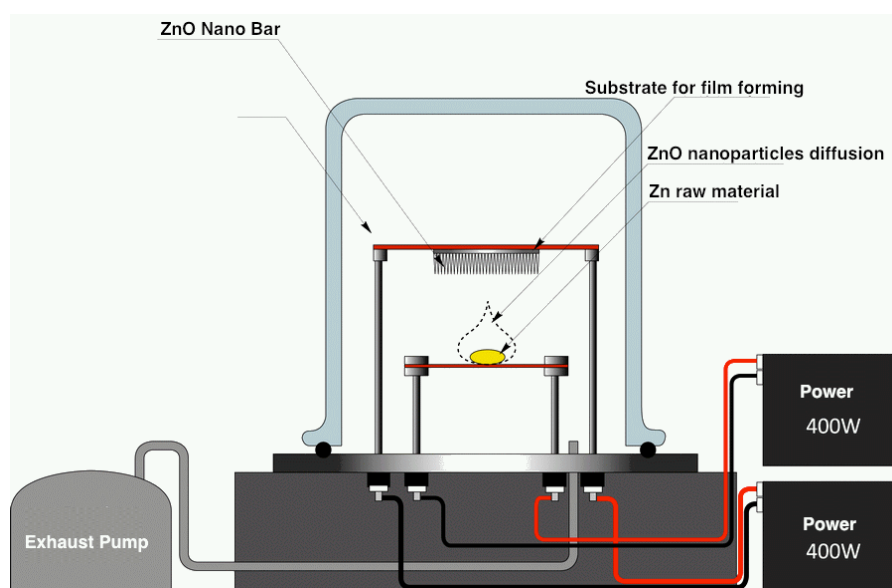


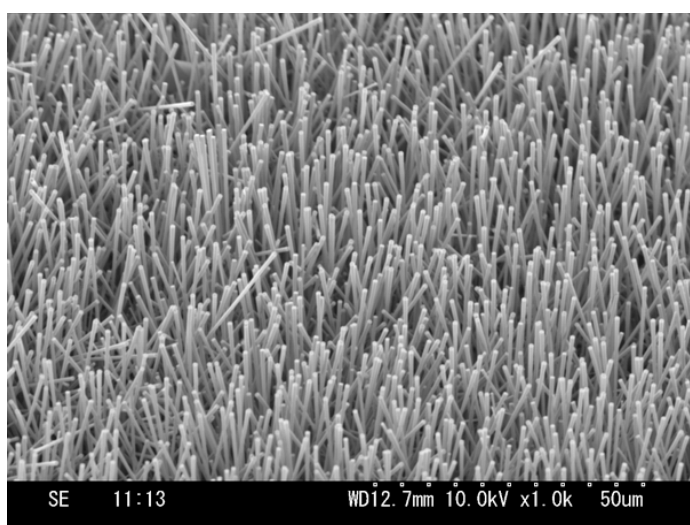
ZNO nano bar creating device



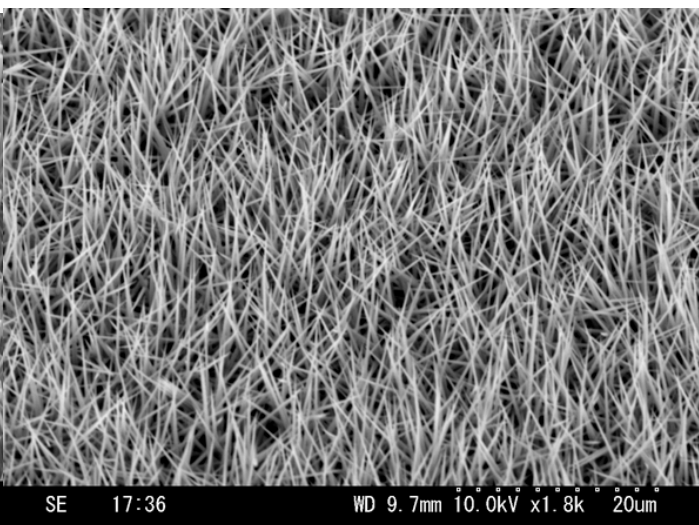
Simplified Creation Device of ZnO Nano Bar on Substrate]

- Have Zn vaporize in oxygenous environment to form vertical ZnO nano bar on substrate.
- ZnO grows rapidly along the C axis of crystal and easily forming a bar-shaped or whisker-shaped material. To enable vertically oriented ZnO nano bar grow on substrate, substrate is usually single-crystal; besides, the spacing between crystal lattices should be very close to that between C-sided crystal lattices (hard substrate or CaN substrate), or prepare Au catalyzer coat on substrate at advance.
- This device can create ZnO nano bar on hard substrate, as well as on silicon or quartz substrate without Au catalyzer coat. Strip-shaped ZnO powders can also be created.

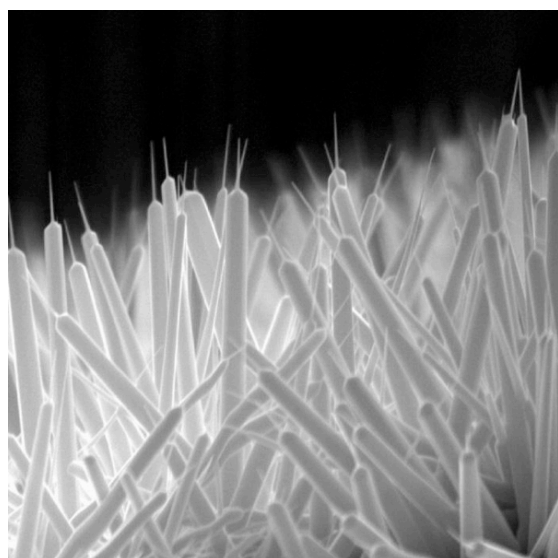




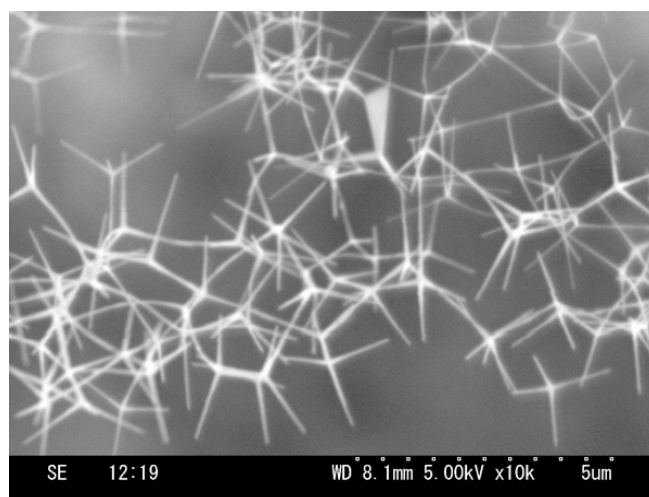
Hexagon ZnO Nano Bar directly created on Silicon Substrate



Needle-shaped ZnO Nano Bar directly created on Silicon Substrate



Two nano bars: when observing first hexagon nano bar of high crystallizability, there are very tiny nano bars at the front of these bars. This is called extension structure



Powder ZnO rootlet (growing in the shape of tetrahedron)

Basic structure	
Mainframe	<ul style="list-style-type: none">- Heat-resistant organic glass housing- Oxygen import tube- Exhaust pump pipe- Backup transmission pipe- Vacuum meter- Current import terminal
Substrate heater	25mm×40mm, working temperature 400~800°C
Basic heater power supply	<ul style="list-style-type: none">- Rating power: 400W AC90-250- Single-phase 50-60Hz- External dimension: W110mm×H130mm×D405mm
Zn Heater	
Zn heater's power supply	<ul style="list-style-type: none">- Rating power: 400W AC90-250- Single-phase 50-60Hz- External dimension: W110mm×H130mm×D405mm
Exhaust pump:	Rotary pump