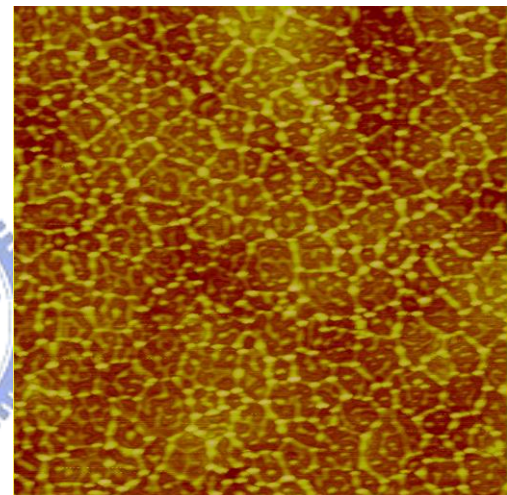
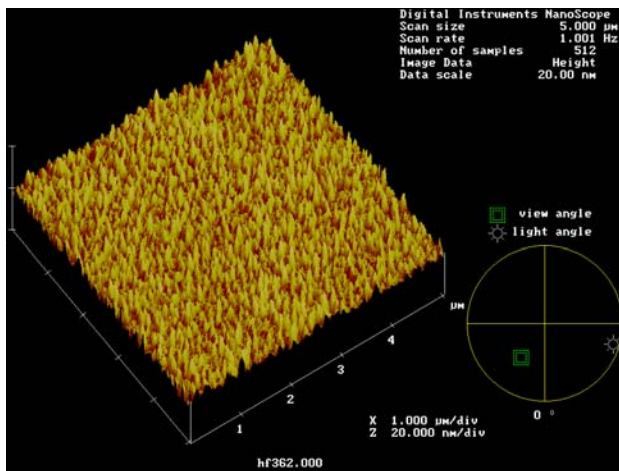
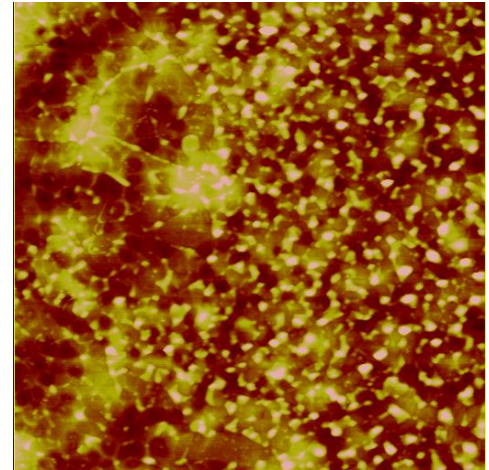
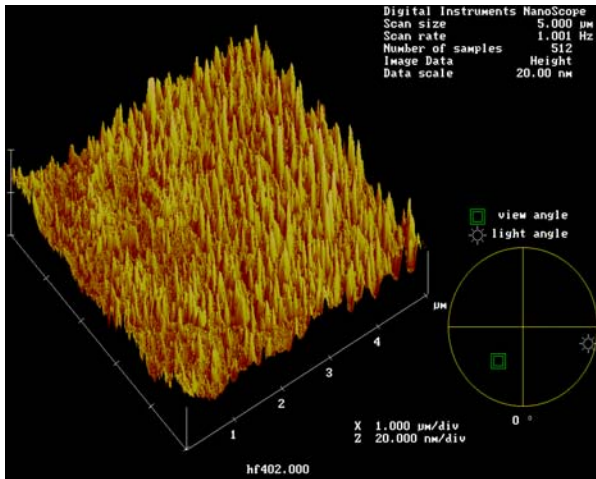


(a)



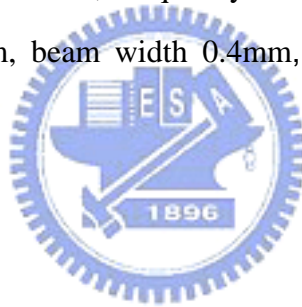
(b)

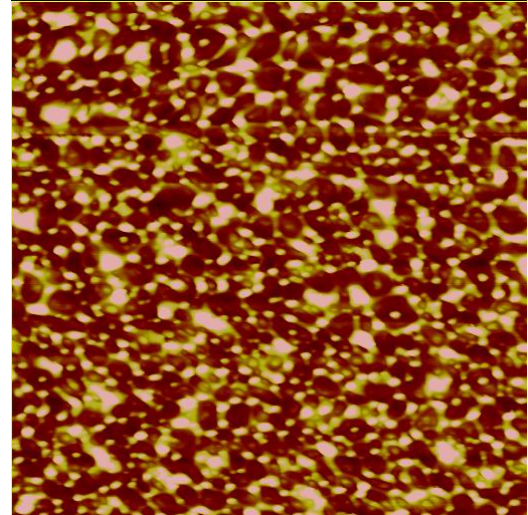
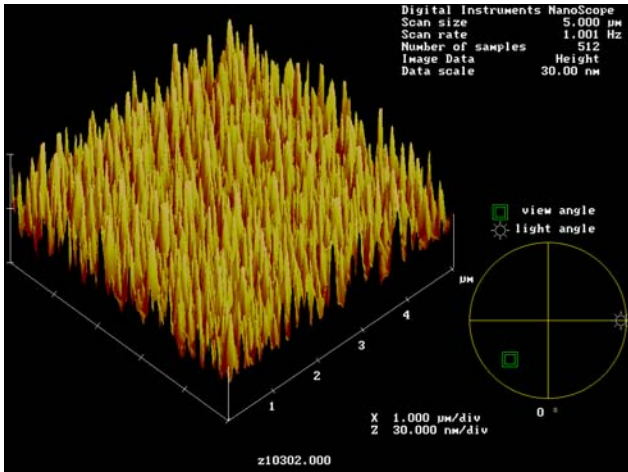
Fig. 2-48 AFM micrographs of excimer laser crystallized poly-Silicon films surface roughness. The applied laser energy densities are (a) 310, (b) 360mJ/cm². The laser energy 950mJ, frequency 300Hz, power 285W, scan speed 6mm/sec, pitch 0.02mm, beam width 0.4mm, pre treatment clean with HF 1% for 30sec



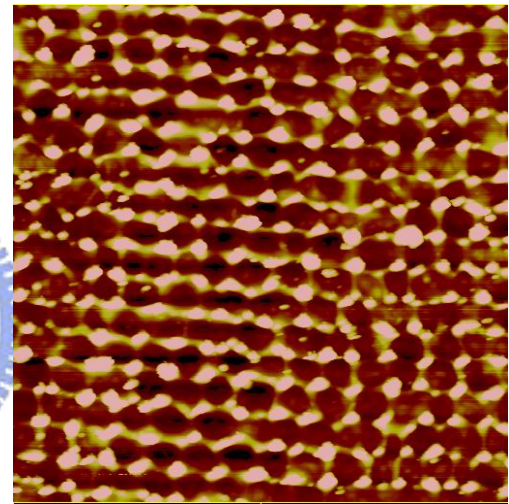
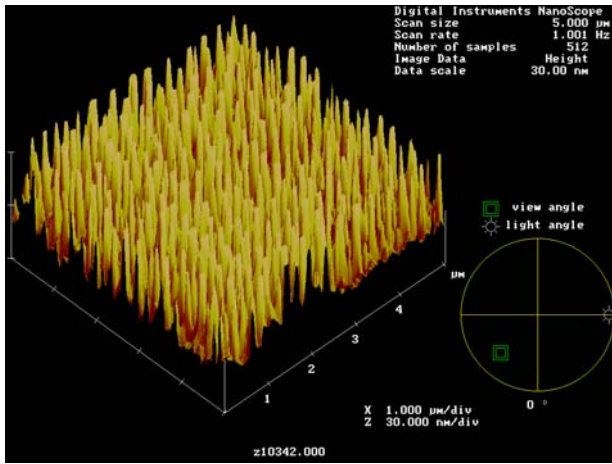
(c)

Fig. 2-48 AFM micrographs of excimer laser crystallized poly-Silicon films surface roughness. The applied laser energy densities are (c) 400 mJ/cm^2 . The laser energy 950 mJ , frequency 300 Hz , power 285 W , scan speed 6 mm/sec , pitch 0.02 mm , beam width 0.4 mm , pre treatment clean with HF 1% for 30sec



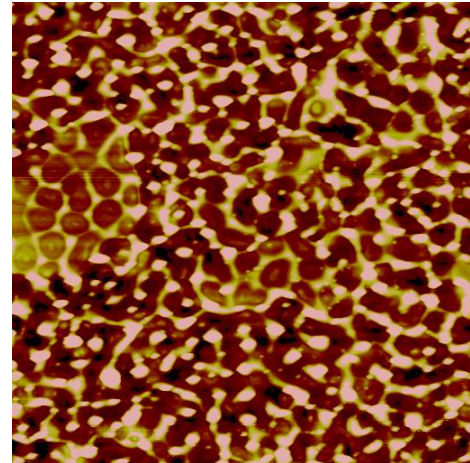
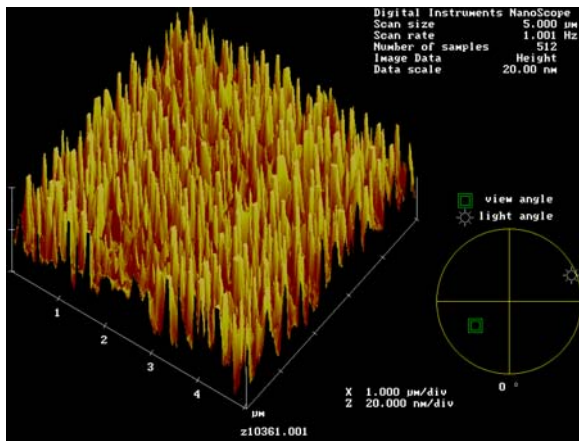


(a)



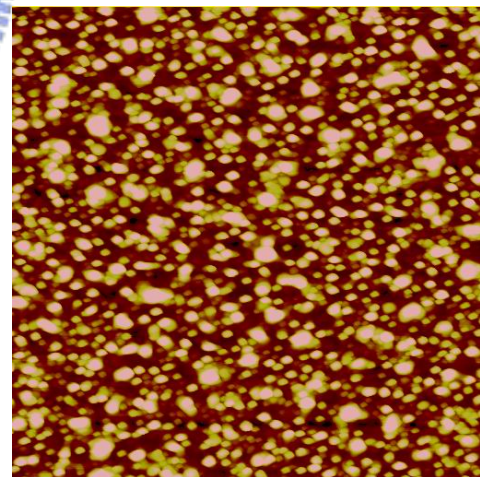
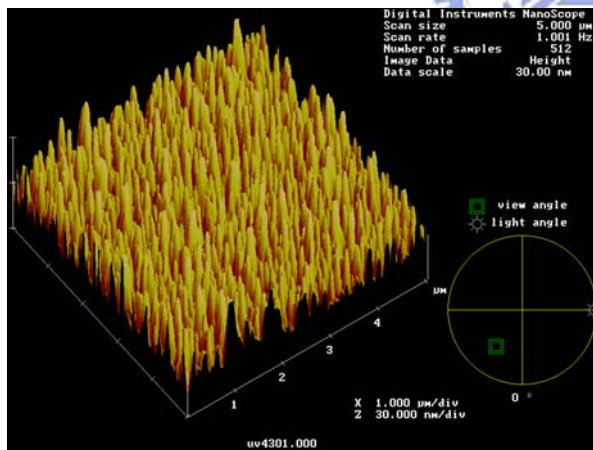
(b)

Fig. 2-49 AFM micrographs of excimer laser crystallized poly-Silicon films surface roughness. The applied laser energy densities are (a) 300, (b) 340, mJ/cm^2 . The laser energy 950mJ, frequency 300Hz, power 285W, scan speed 6mm/sec, pitch 0.02mm, beam width 0.4mm, pre treatment clean with O3 20ppm for 100sec



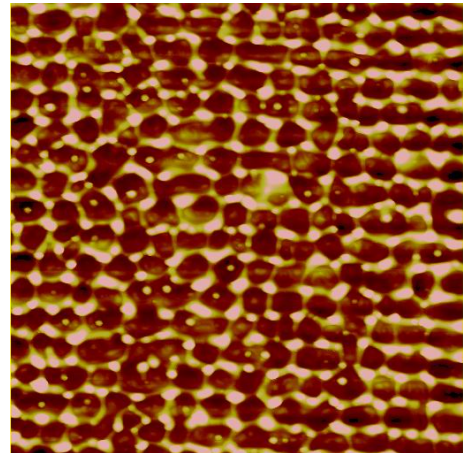
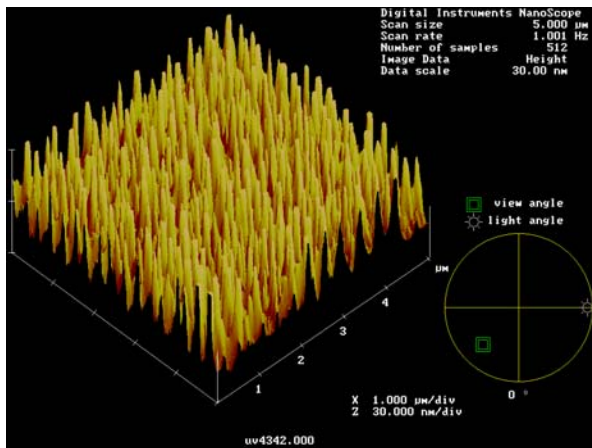
(c)

Fig. 2-49 AFM micrographs of excimer laser crystallized poly-Silicon films surface roughness. The applied laser energy densities are (c) 360 mJ/cm^2 . The laser energy 950 mJ , frequency 300 Hz , power 285 W , scan speed 6 mm/sec , pitch 0.02 mm , beam width 0.4 mm , pre treatment clean with O_3 20 ppm for 100 sec

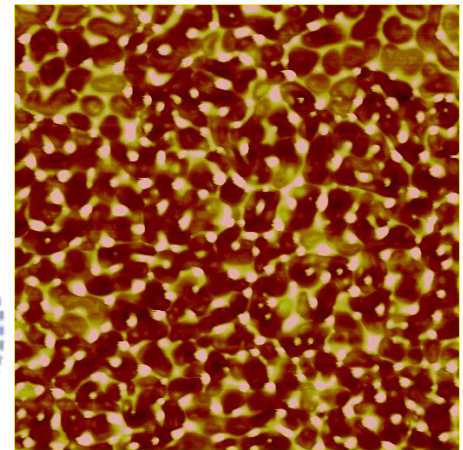
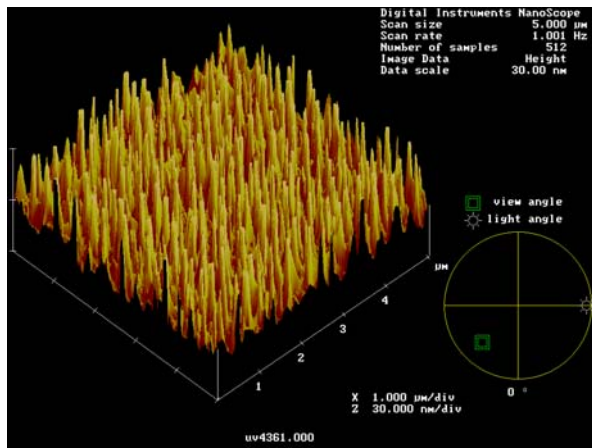


(a)

Fig. 2-50 AFM micrographs of excimer laser crystallized poly-Silicon films surface roughness. The applied laser energy densities are (a) 300 mJ/cm^2 . The laser energy 950 mJ , frequency 300 Hz , power 285 W , scan speed 6 mm/sec , pitch 0.02 mm , beam width 0.4 mm , pre treatment clean with UV exposure $\lambda 254 \text{ nm}$ for 400 sec



(b)



(c)

Fig. 2-50

AFM micrographs of excimer laser crystallized poly-Silicon films surface roughness. The applied laser energy densities are (b) 340, (c) 360 mJ/cm^2 . The laser energy 950mJ, frequency 300Hz, power 285W, scan speed 6mm/sec, pitch 0.02mm, beam width 0.4mm, pre treatment clean with UV exposure $\lambda 254\text{nm}$ for 400sec