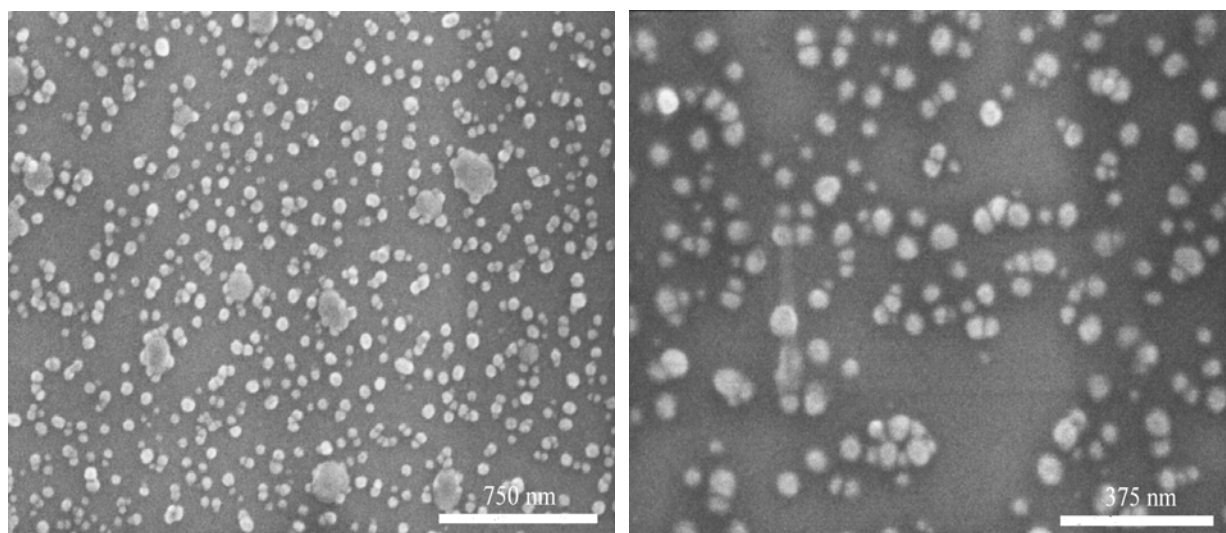


(a)

(b)

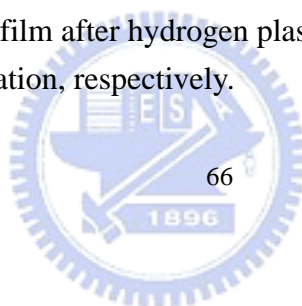


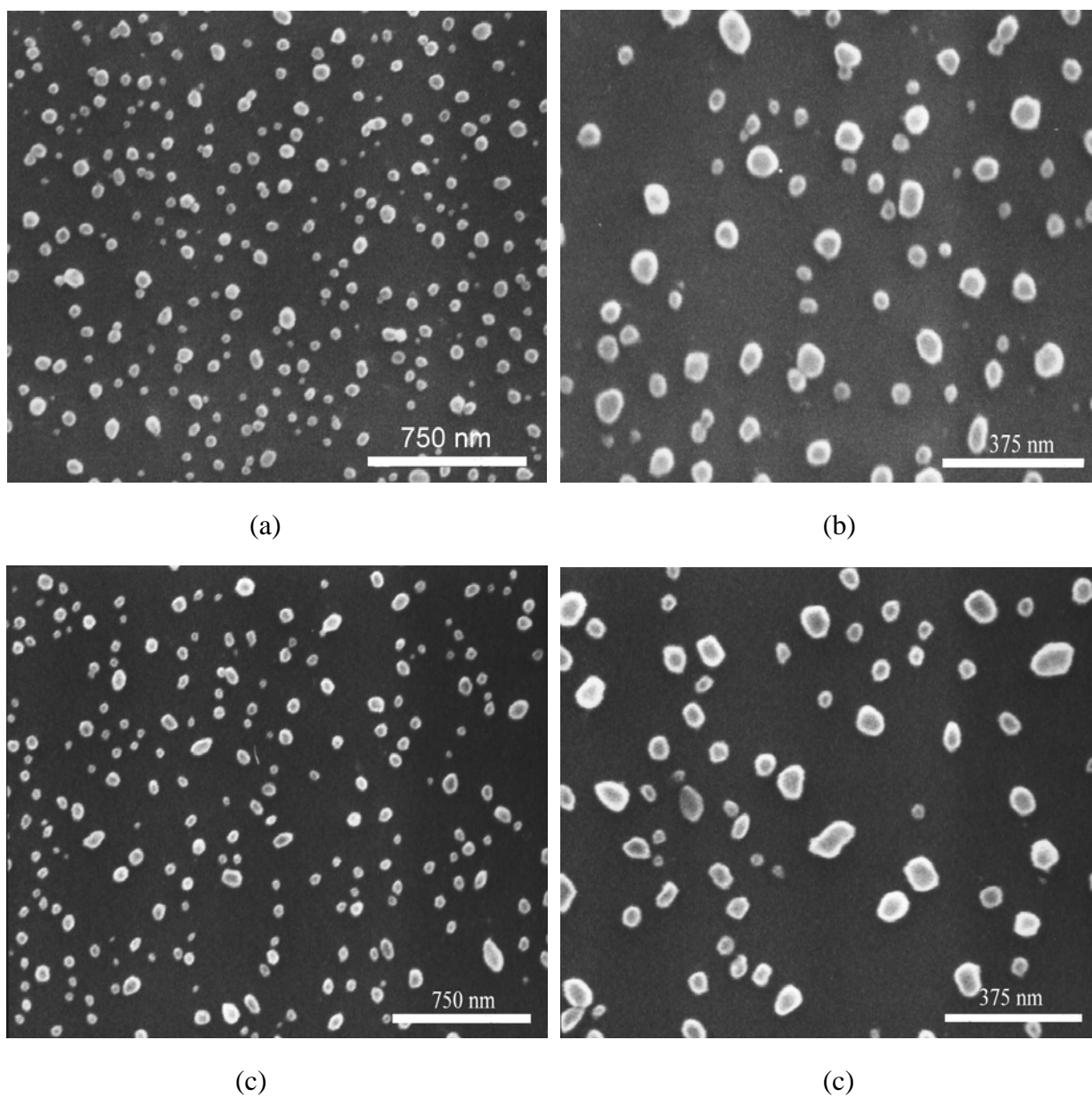
(c)

(d)

(a) Conditions PT1 magnification 40K	(b) Conditions PT1 magnification 80K
(c) Conditions PT2 magnification 40K	(d) Conditions PT2 magnification 80K

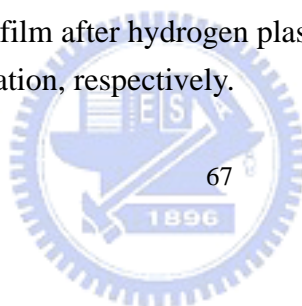
Figs.4-1 Morphologies of catalyst film after hydrogen plasma pretreatment under conditions PT1 and PT2 at different magnification, respectively.

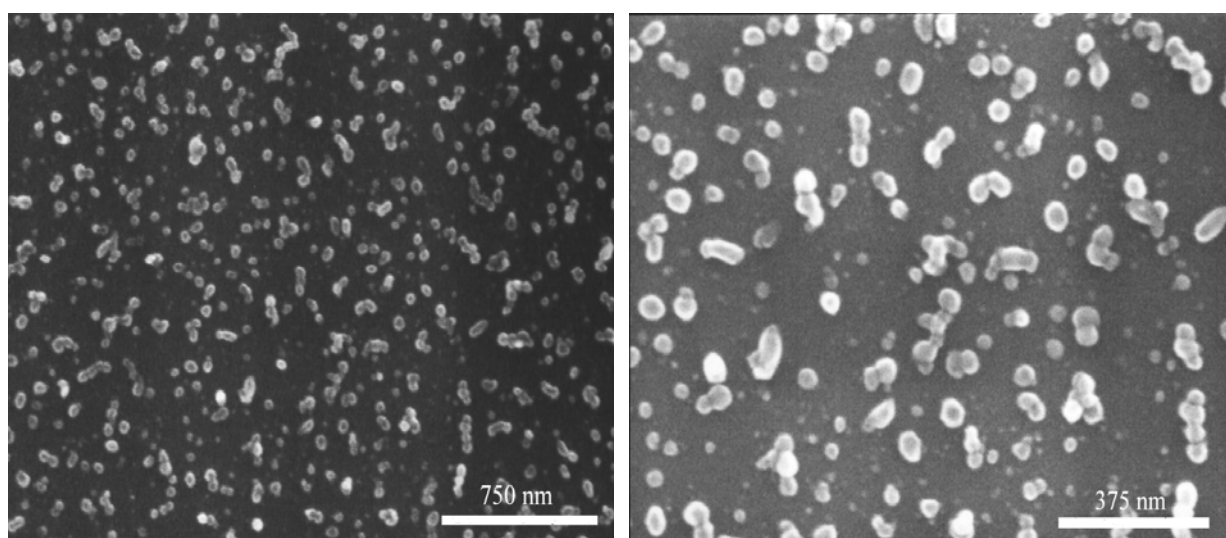




(a) Conditions PT3 magnification 40K	(b) Conditions PT3 magnification 80K
(c) Conditions PT4 magnification 40K	(d) Conditions PT4 magnification 80K

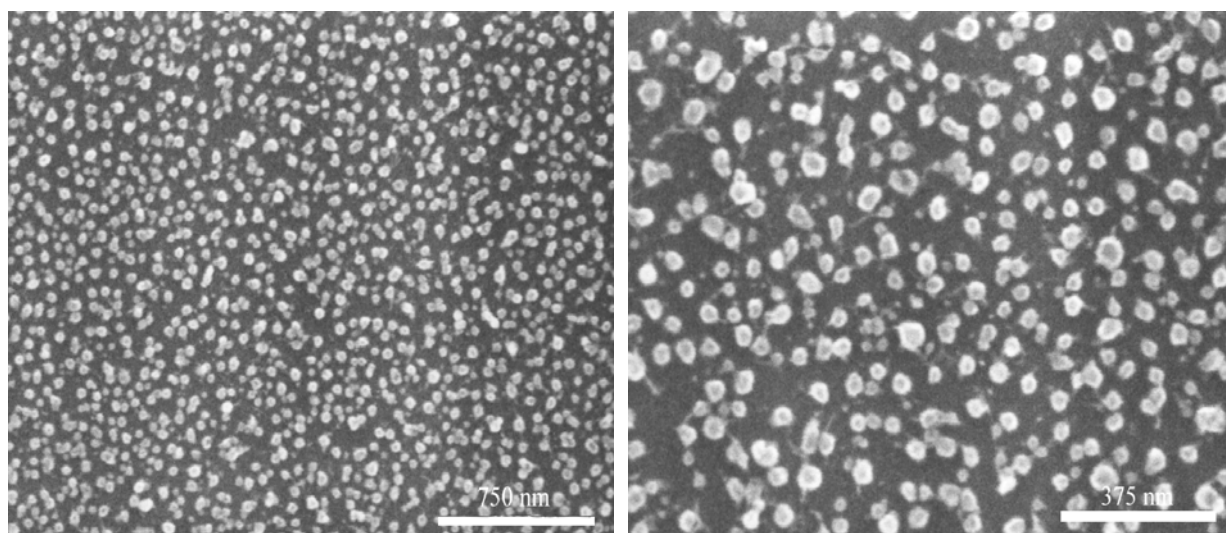
Figs.4-2 Morphologies of catalyst film after hydrogen plasma pretreatment under conditions PT3 and PT4 at different magnification, respectively.





(a)

(b)

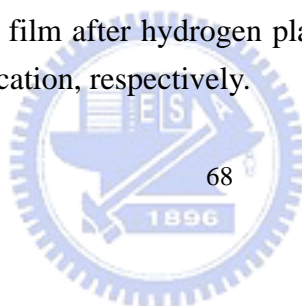


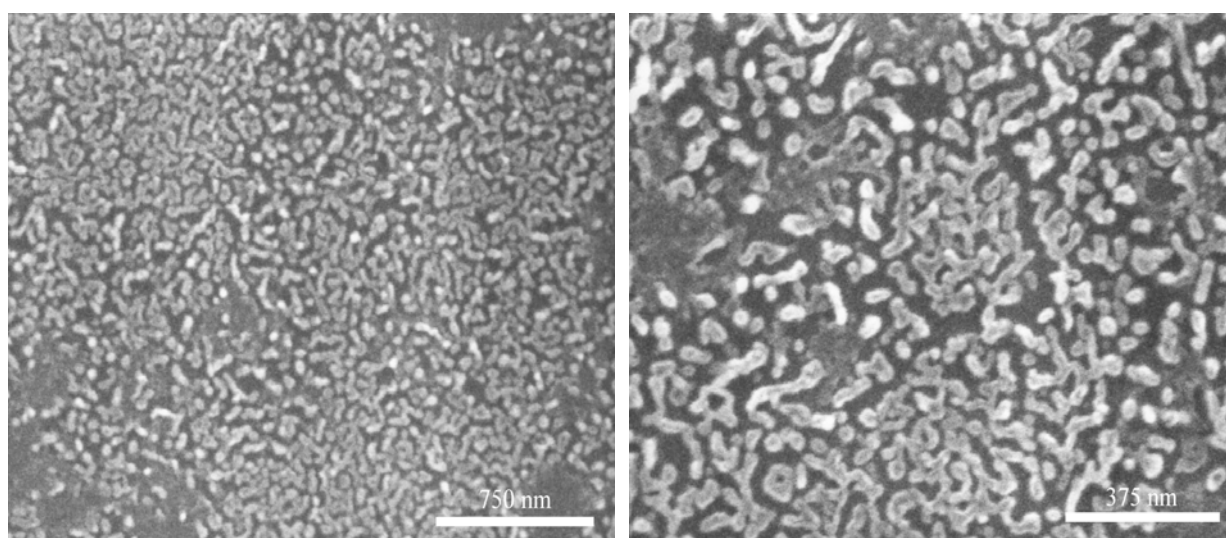
(c)

(d)

(a) Conditions PT1 magnification 40K	(b) Conditions PT1 magnification 80K
(c) Conditions PT5 magnification 40K	(d) Conditions PT5 magnification 80K

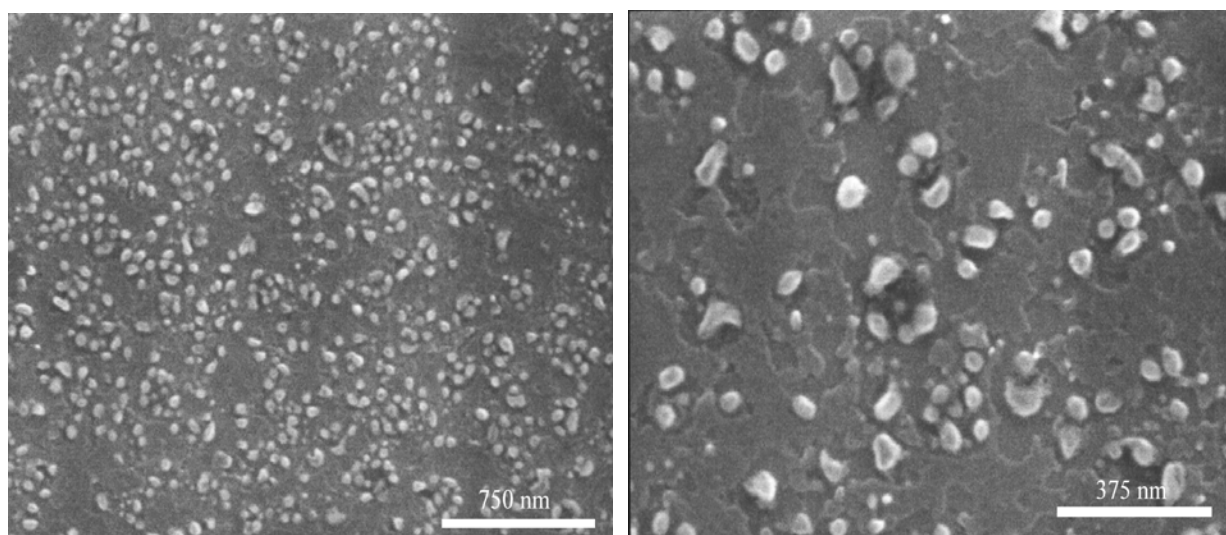
Figs.4-3 Morphologies of catalyst film after hydrogen plasma pretreatment under conditions PT1 and PT5 at different magnification, respectively.





(a)

(b)



(c)

(d)

(a) Conditions PT6 magnification 40K	(b) Conditions PT6 magnification 80K
(c) Conditions PT7 magnification 40K	(d) Conditions PT7 magnification 80K

Figs.4-4 Morphologies of catalyst film after hydrogen plasma pretreatment under conditions PT6 and PT7 at different magnification, respectively.

