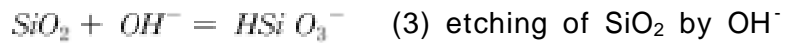
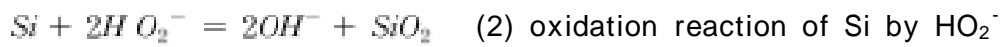
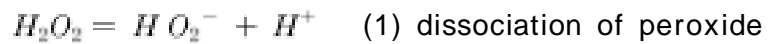


### 1. Oxidation and etching reaction

	1970	Kern	Puotinen	RCA
	RCA		SC-1(Standard Clean-1,	
APM)	,		1:1:5	
75~90	10~20	cleaning	H <sub>2</sub> O <sub>2</sub> 가	H <sub>2</sub> O+O <sub>2</sub>
	H <sub>2</sub> O <sub>2</sub>	NH <sub>4</sub> OH		
		Au, Ag, Cu, Ni, Cd, Zn, Co, Cr		
		1	SC-1	
		H <sub>2</sub> O <sub>2</sub>		NH <sub>4</sub> OH
etching				
	SC-1	Si		



가

OH<sup>-</sup>

slightly etching

electrical repulsion

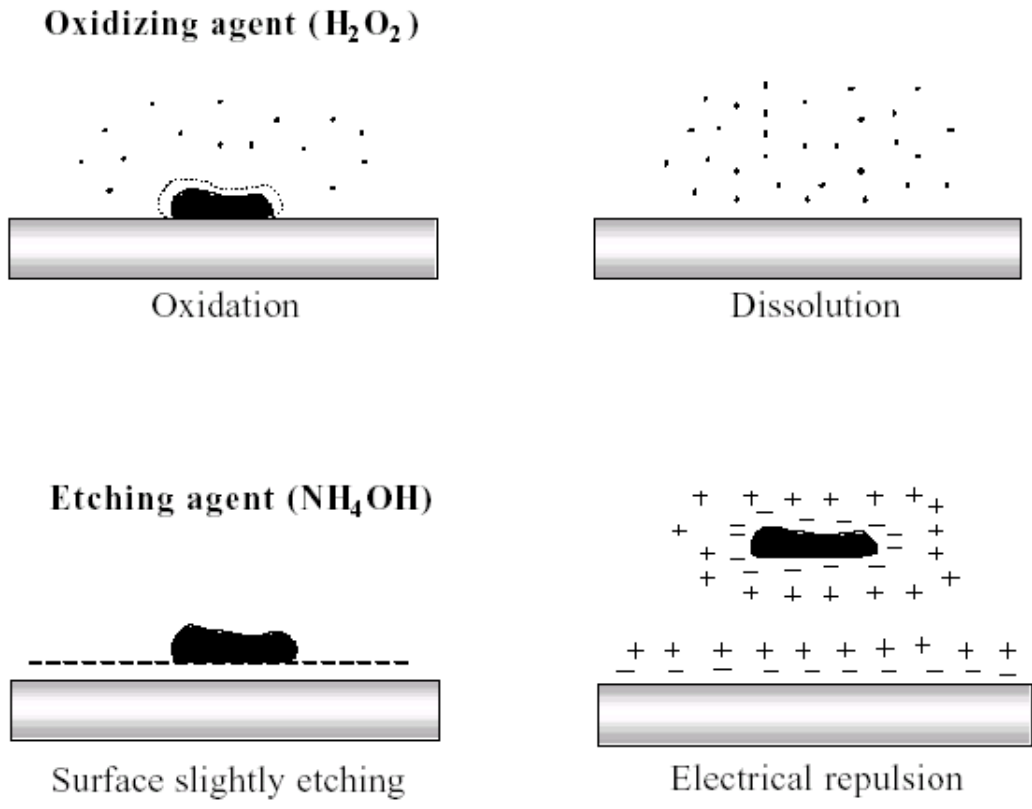


Fig. 1. Particles and organic contaminants removal mechanism in SC1 solution

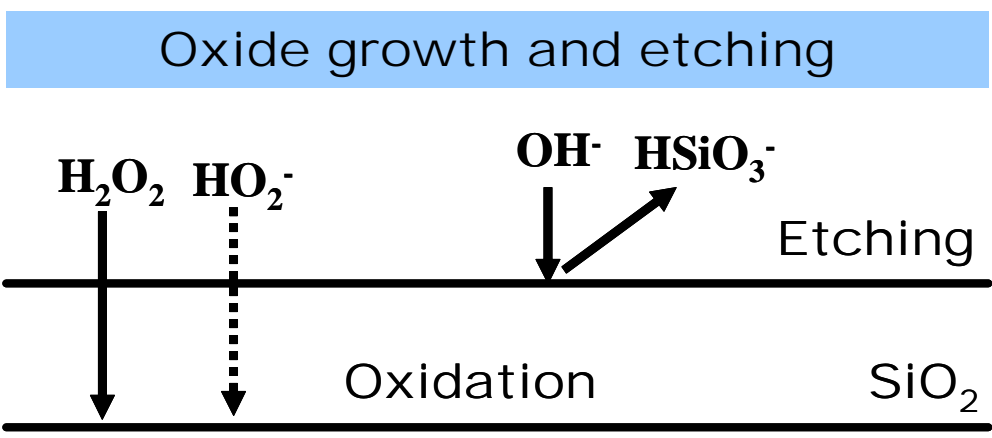


Fig. 2. Oxidation and etching of silicon surface during SC1 solution



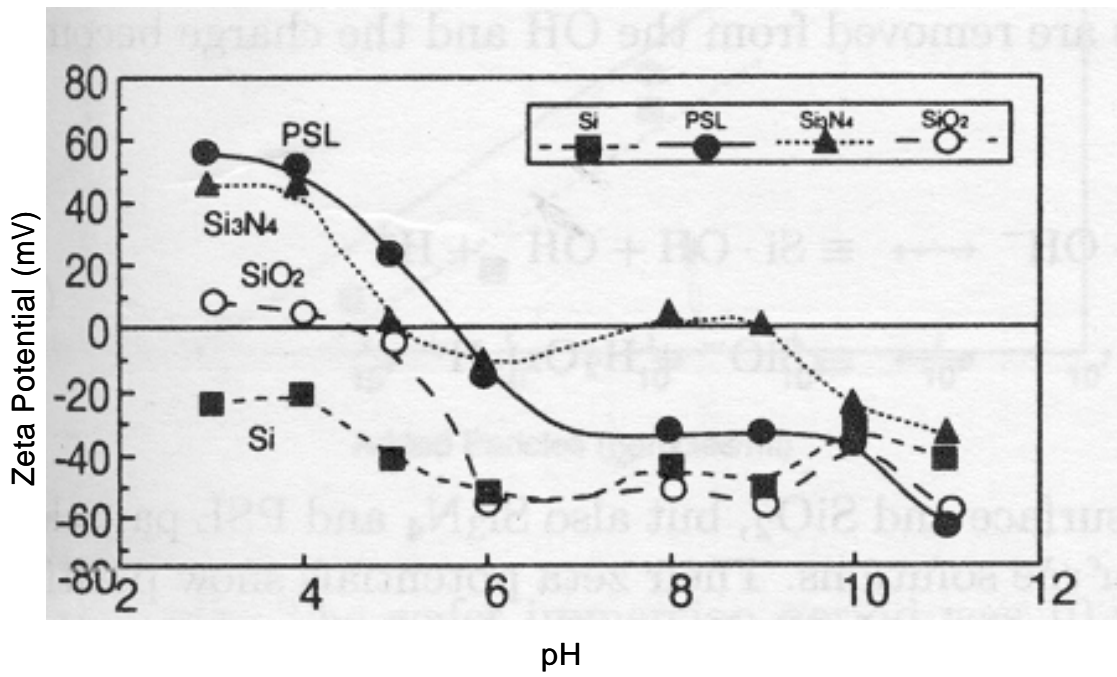
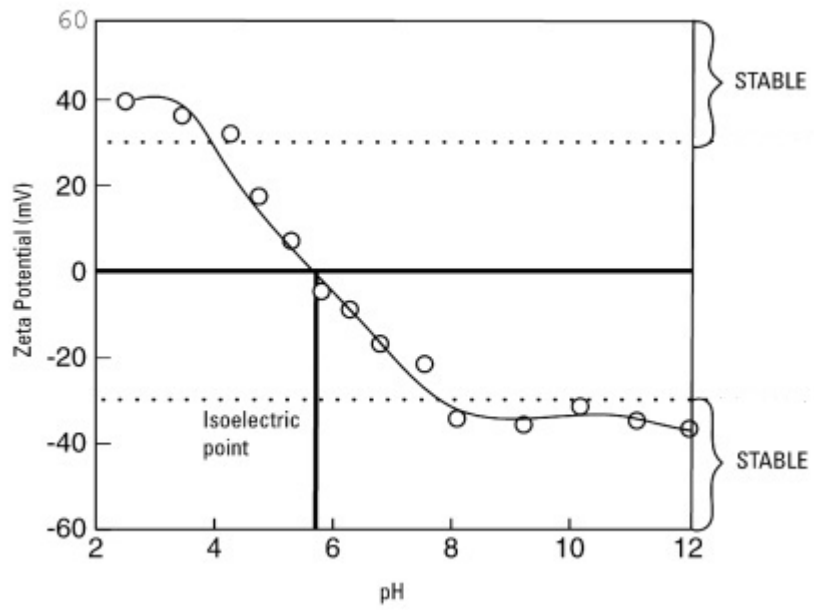


Fig. 4. Zeta potential pH

( )

5  
 4 Si pH negative charge  
 negative charge 5  
 EDR(Electrostatic Double Layer) repulsion 가 ,  
 positive charge attractive force가  
 가 .

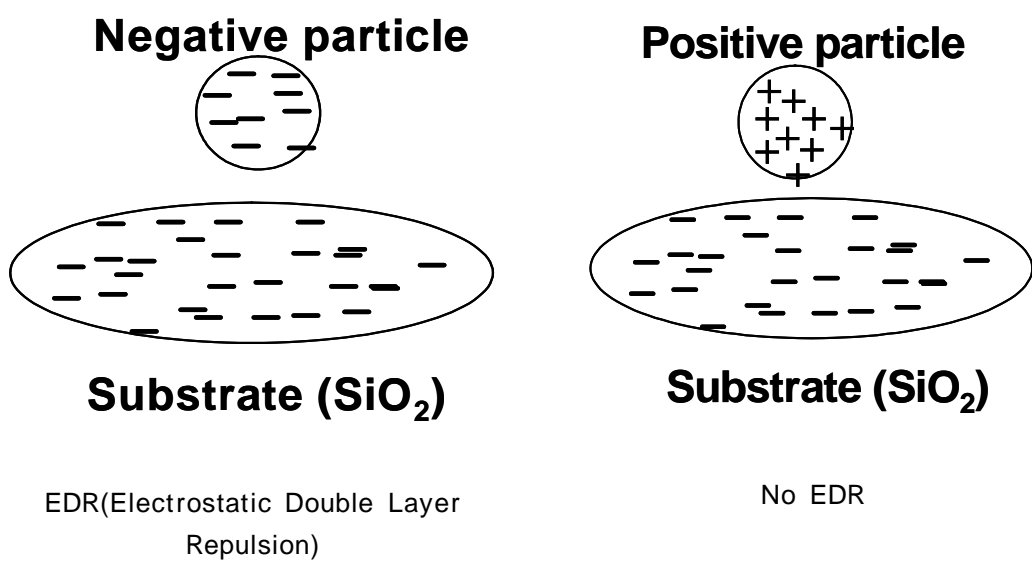


Fig. 5.