Precise evaluation for SiN films by mercury probe and XPS

Silicon nitride (SiN) films are widely used as various dielectrics due to their versatility. But the electrical properties of SiN films strongly depend on the formation conditions. We characterized the change in the electrical and physical properties of annealed SiN film by mercury probe and XPS. Our comprehensive study enables us to evaluate a relationship between film qualities and electrical properties of SiN films.



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