

## 유기절연체를 사용한 ZnO 박막트랜지스터

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### ZnO TFT with Organic Dielectric

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**Abstract :** ZnO Oxide TFT with organic dielectric was prepared. ZnO thin film as active channel was prepared by plasma enhanced atomic deposition technique. Organic dielectric was spin coated on the gate metal. The structure of prepared TFT is bottom gate type and top contact structure. The characterization of oxide TFT was performed. We obtained the mobility of  $0.7\text{cm}^2/\text{Vs}$ , the threshold voltage of  $-14\text{V}$ , and the on-off ratio of  $10^4$ . We also obtained good output characterization with solid saturation.

**Key Words :** ZnO, TFT, ALD, organic dielectric