

WO₃가 mesoporous in-situ FT-IR

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가 , 가가 가

Tungsten Oxide(WO₃)가 .

Atomic Layer Deposition(ALD) Tungsten

Oxide(WO₃)가 . XRD, BET, NH₃-TPD

in-situ FT-IR

_____ , Tungsten Oxide(WO₃)가 -