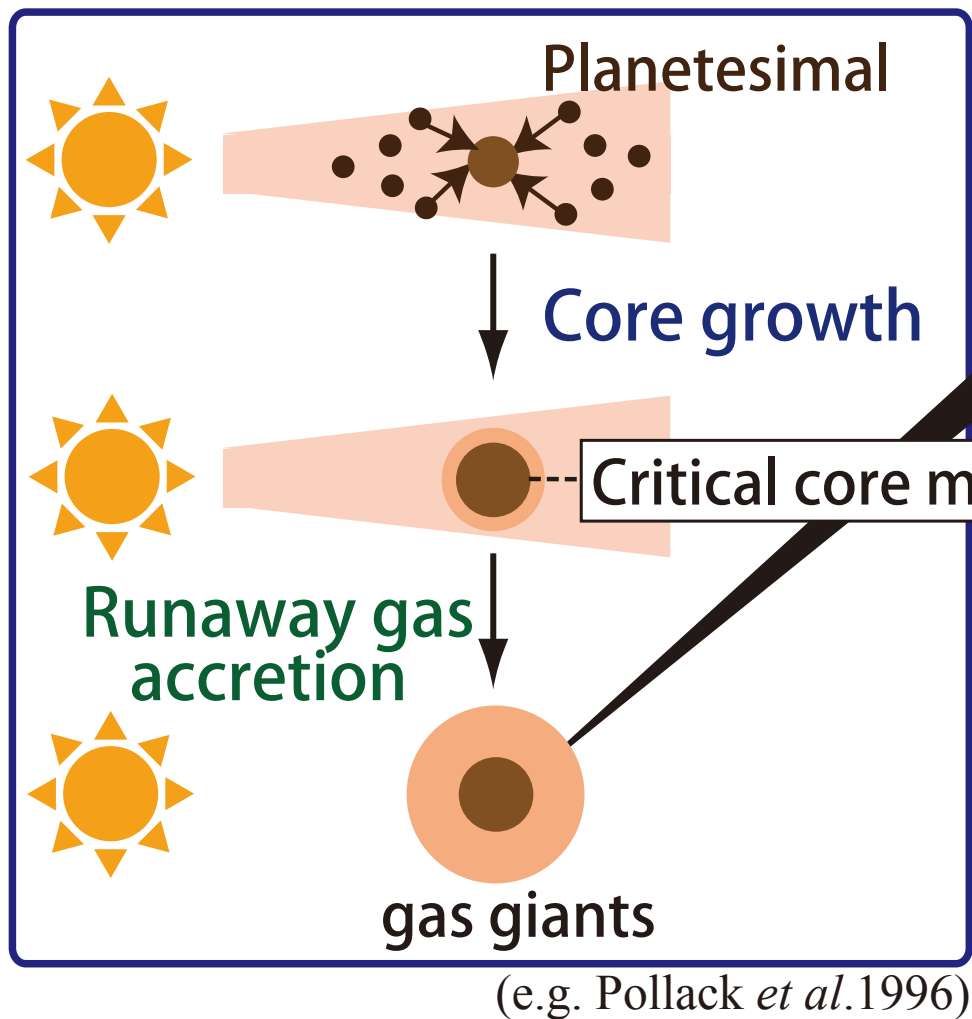


Gas Giant Formation with Small Cores Triggered by Envelope Pollution by Icy Planetesimals

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Core-Accretion Model



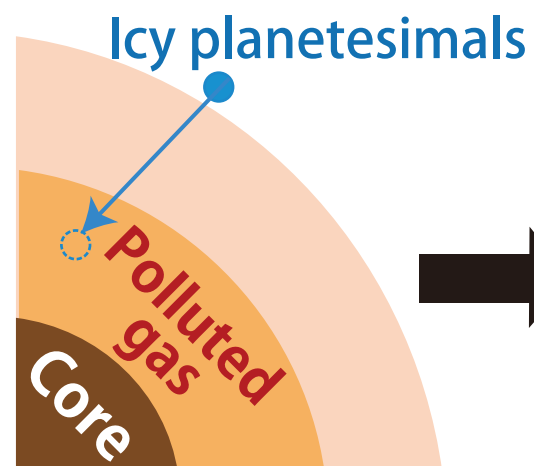
Gas giants with small cores

--- **LONG** gas accretion timescale

Observed disk lifetimes: 1-10Myr

(Haisch *et al.* 2001; Hernandez *et al.* 2007)

Envelope pollution



Formation of Gas Giants with Small Cores