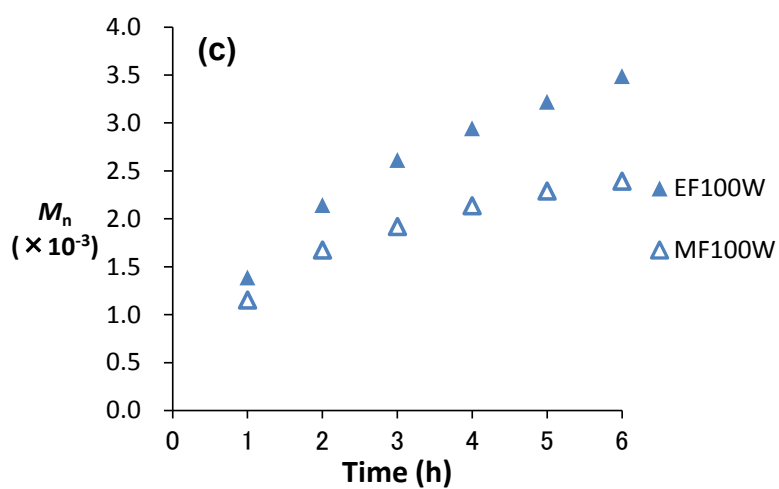
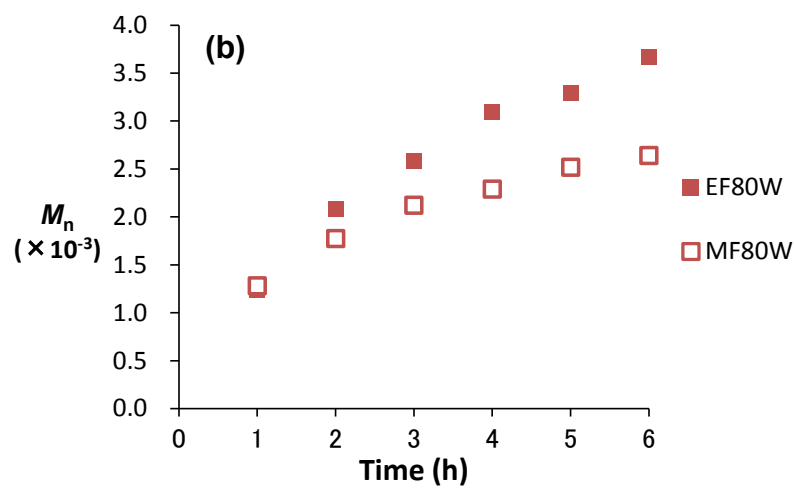
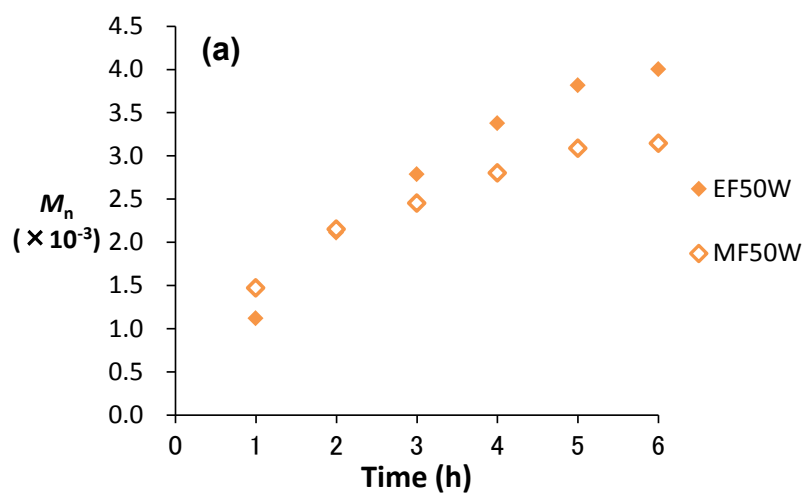
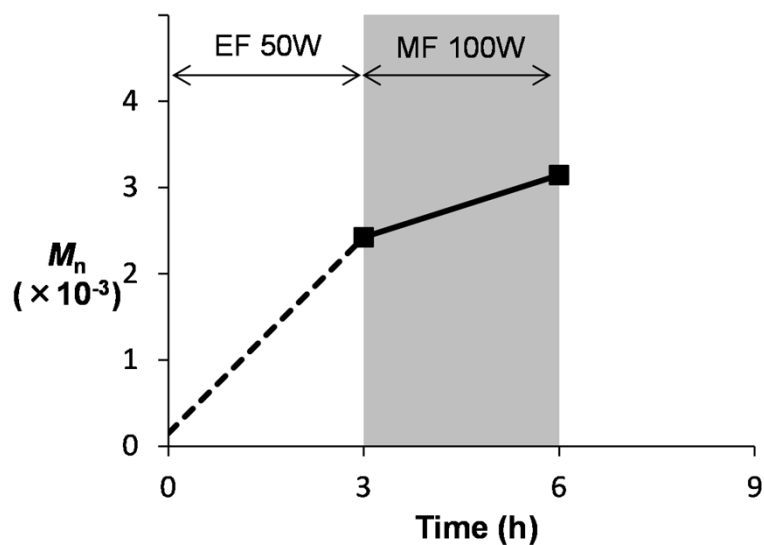


## Supporting Information



**Figure S1.**  $M_n$  profiles for solution polycondensation of L-LA catalyzed by  $\text{Sc}(\text{OTf})_3$  under EF (filled symbol) or MF (open symbol) at 50 W (a), 80 W (b), and 100 W(c).



**Figure S2.** Solution polycondensation of L-LA catalyzed by  $\text{Sc}(\text{OTf})_3$  under alternating irradiation of EF (50 W) and MF (100 W).