

Fig. 1. The multiple element limitation (MEL) model. C, N, P, and water stocks and fluxes are distinguished respectively by solid, dotted, dashed, and gray lines. Two-headed arrows indicate fluxes in both directions. Mineral P is shown as primary (1°) and secondary (2°). For clarity, only external fluxes have been labeled: $U_{\rm C}$, photosynthesis; $R_{\rm A}$, autotrophic respiration; $R_{\rm Cm1}$ and $R_{\rm Cm2}$, heterotrophic respiration from Phase I and Phase II soil organic matter (SOM); $I_{\rm b}$ inputs of i; $L_{\rm b}$ leaching loss of i; $T_{\rm DNtr}$, denitrification; DOM, dissolved organic matter; $I_{\rm ppt}$, precipitation; $I_{\rm nt}$, evaporation of intercepted water; $U_{\rm W}$, water uptake and transpiration; $O_{\rm c}$, runoff and deep percolation.