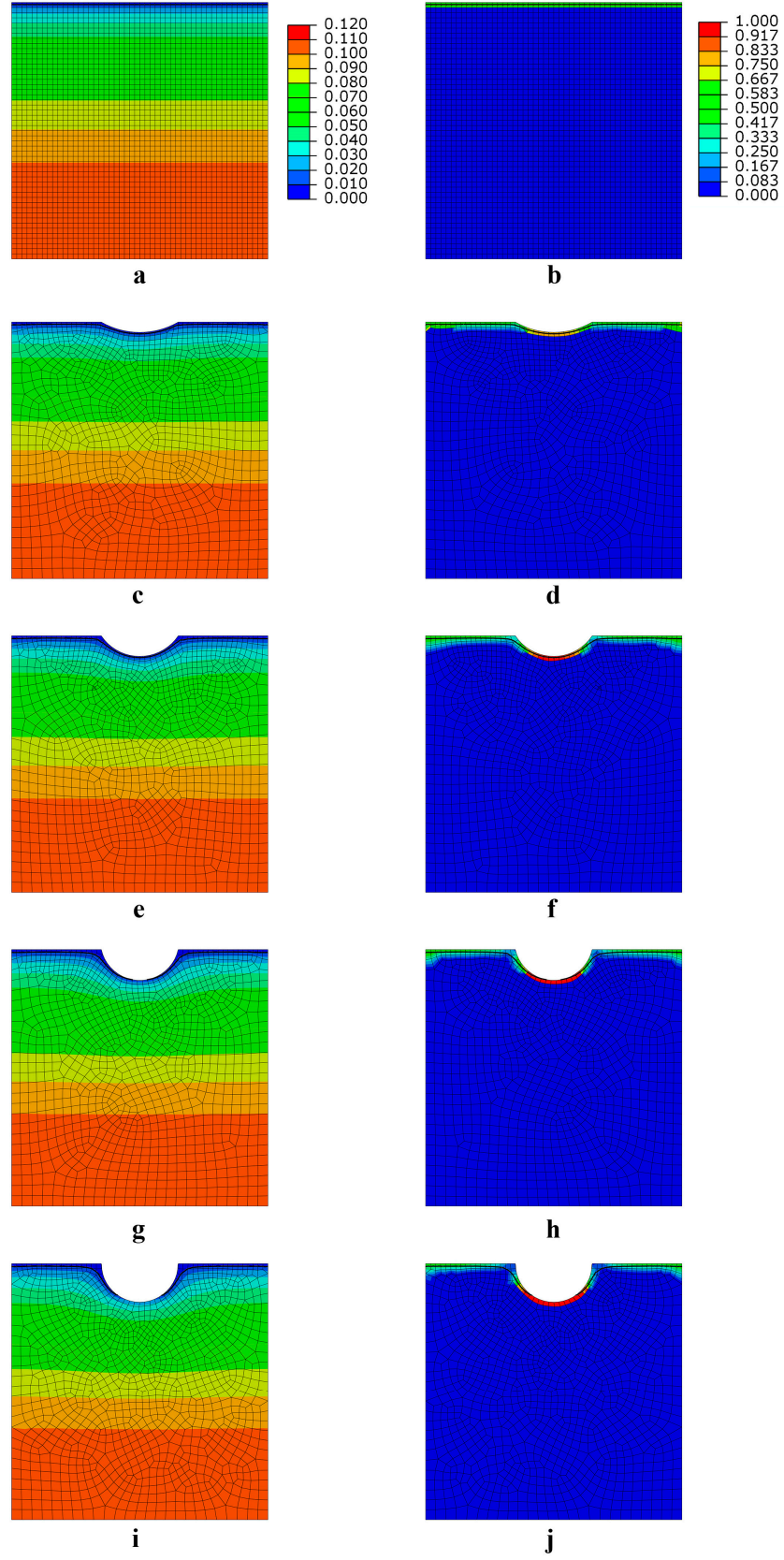
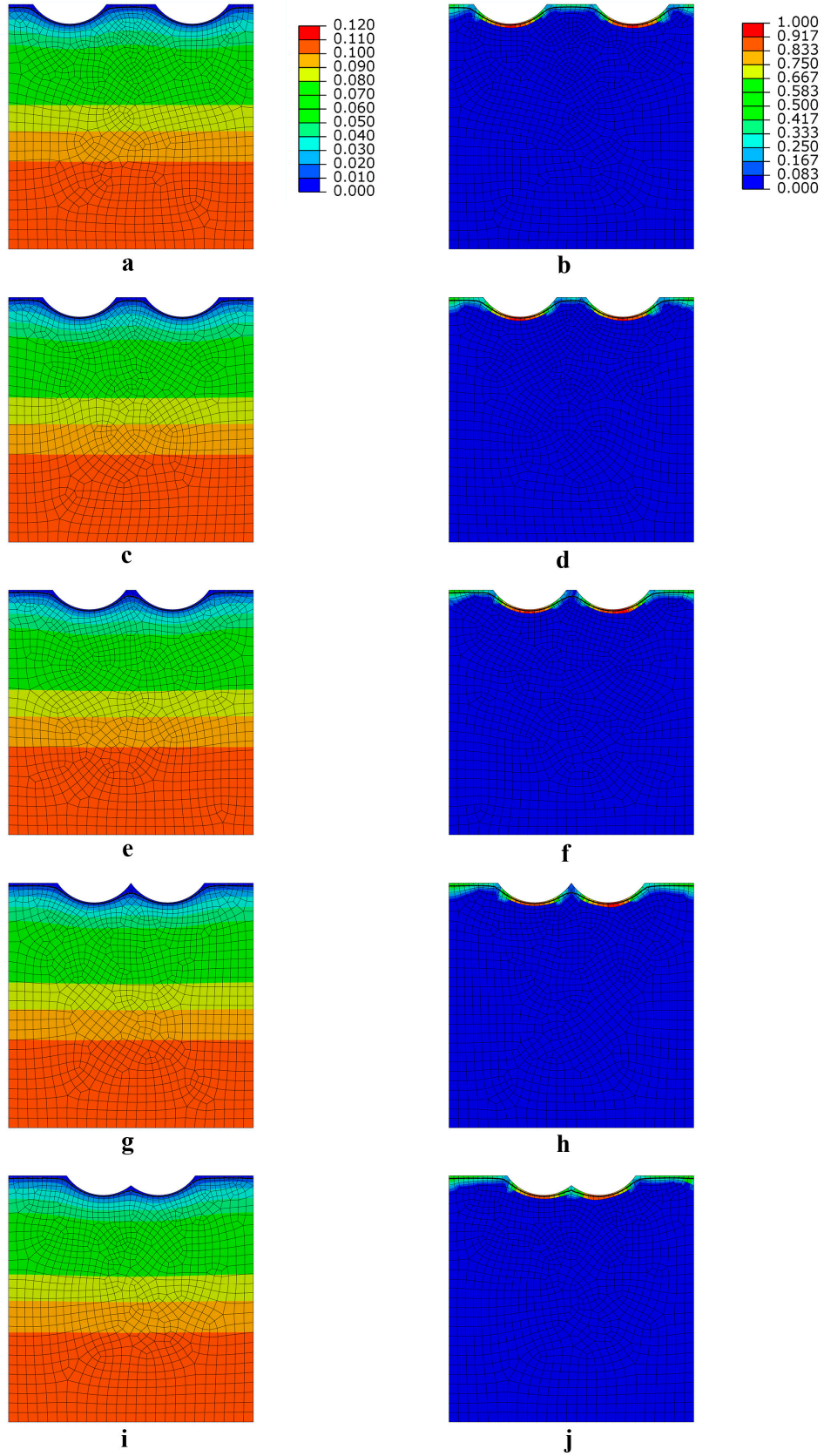


Supplementary Figure S1: Hydraulic field under various θ_0 . (a) $\theta_0 = 0.12$. (b) $\theta_0 = 0.11$. (c) $\theta_0 = 0.10$. (d) $\theta_0 = 0.09$. (e) $\theta_0 = 0.08$. (f) $\theta_0 = 0.07$. (g) $\theta_0 = 0.06$. (h) $\theta_0 = 0.05$. (i) $\theta_0 = 0.04$.



Supplementary Figure S2: Hydraulic field under various pit depths H . Width of pit is 15 mm, $\theta_0 = 0.11$. (a,c,e,g,i) The distribution of moisture content. (b,d,f,h,j) The distribution of the intensity of evaporation q . (a,b) $H=0$ mm. (c,d) $H=2.0$ mm. (e,f) $H=4.0$ mm. (g,h) $H=6.0$ mm. (i,j) $H=7.5$ mm.



Supplementary Figure S3: Hydraulic field with two adjacent pits. Width of pits is 15 mm, pits depth is $H=4.0$ mm, $\theta_0 = 0.11$. (a,c,e,g,i) The distribution of moisture content. (b,d,f,h,j). The distribution of the intensity of evaporation q . (a,b) $L=25.0$ mm. (c,d) $L=21.0$ mm. (e,f) $L=17.0$ mm. (g,h) $L=15.0$ mm. (i,j) $L=11.3$ mm.