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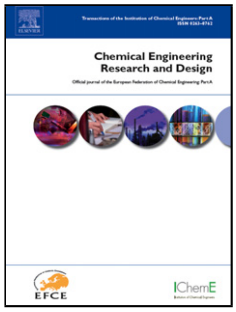

Title: PREDICTING THE SURFACE COMPOSITION OF A SPRAY DRIED PARTICLE BY MODELLING COMPONENT REORGANIZATION IN A DRYING DROPLET

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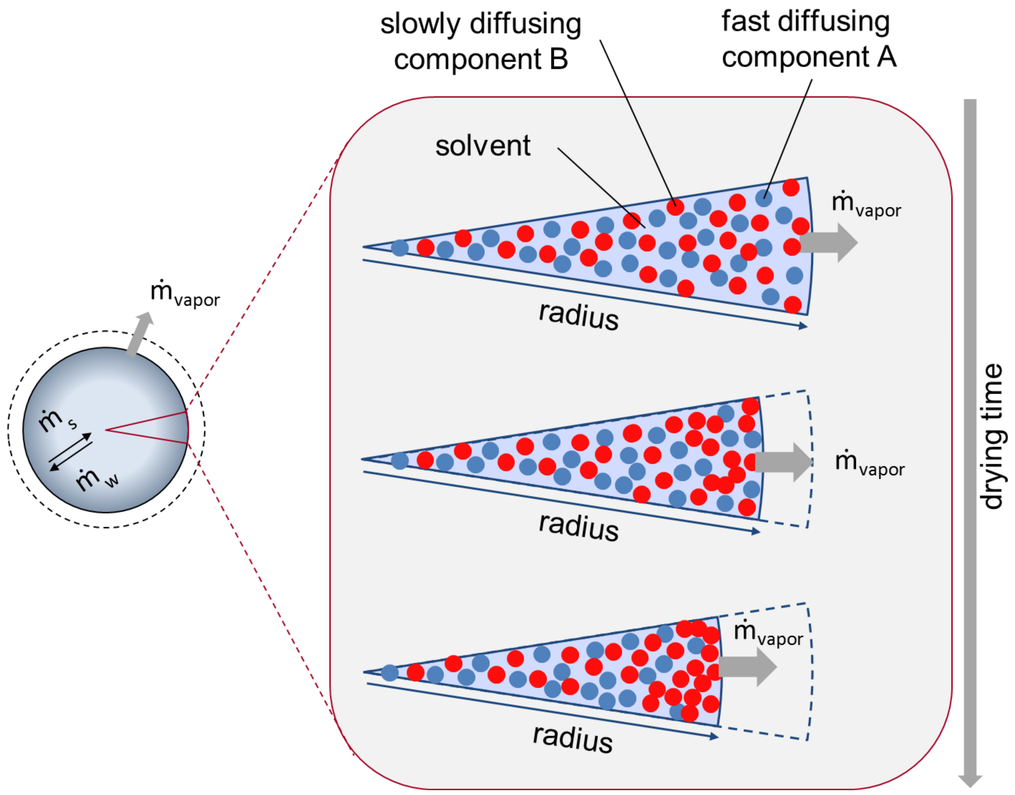
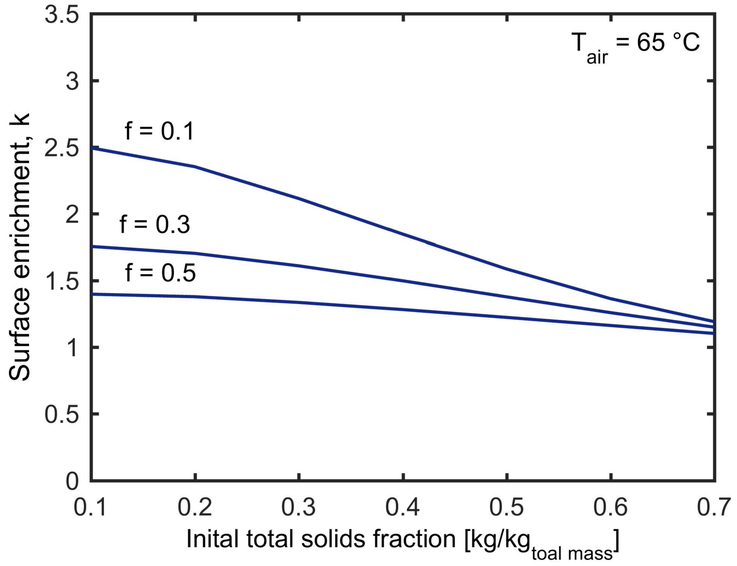

slowly diffusing component B
fast diffusing component A
solvent
ṁvapor
radius
ṁvapor
radius
ṁvapor
radius
ṁvapor
ṁs
ṁw
drying time


Tair = 65 °C
f = 0.1
f = 0.3
f = 0.5
Surface enrichment, k
Inital total solids fraction [kg/kgtoal mass]
0
0.5
1
1.5
2
2.5
3
3.5
0.1
0.2
0.3
0.4
0.5
0.6
0.7

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