

Vapor Phase Infiltration: Unifying the Research Community Around Processing Science Fundamentals

M. D. Losego

School of Materials Science and Engineering, Georgia Tech

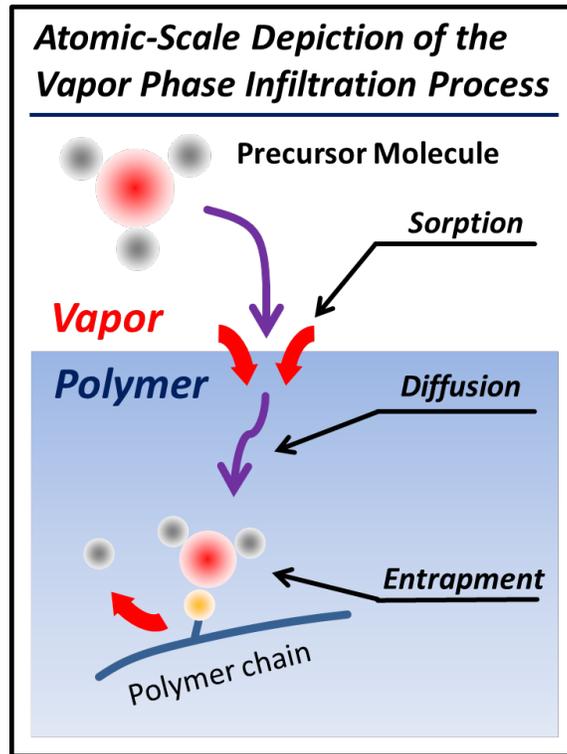


Fig. 1: Schematic depiction of the universal kinetics observed for all vapor phase infiltration processes.

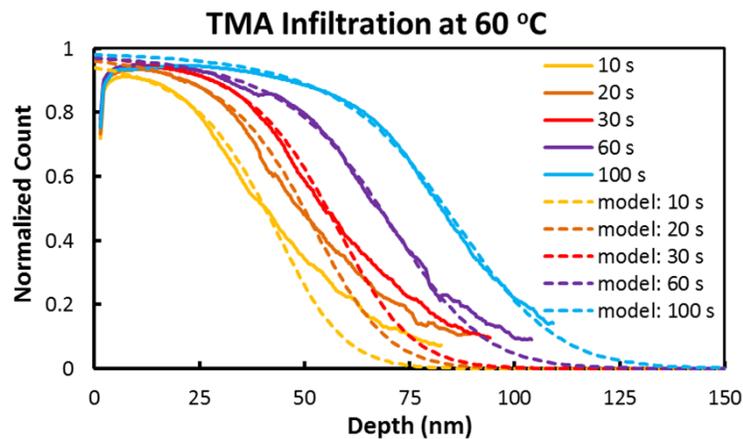


Fig. 2: Demonstration of how kinetics theory can be used to predict and design the chemical composition of a VPI processed material. This data compares SIMS composition profiles (solid lines) to theory calculations (dotted lines).