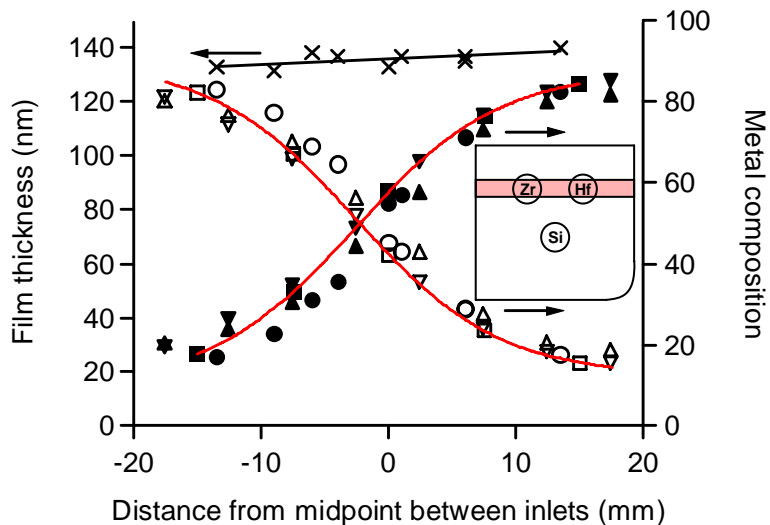


# Combinatorial Atomic Layer Deposition of $(\text{HfO}_2)_x(\text{ZrO}_2)_{1-x}(\text{SiO}_2)_{6.5}$

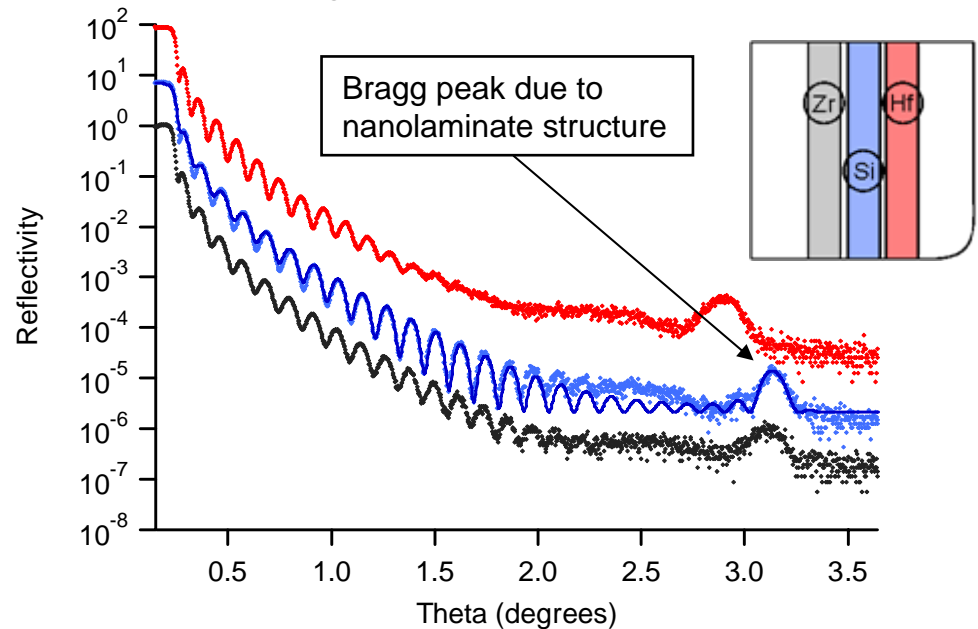
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- Create nanolaminate films with uniform thickness but laterally varying stoichiometry
  - ◆ Compositional properties decoupled from thickness related effects
  - ◆ Rapid evaluation of multiple compositions on single sample



## ● MAJOR OBSERVATIONS

- ◆ Compositional gradient measured
- ◆ Films grow in nanolaminate microstructure



## ● Publications

- ◆ Wayne L. Gladfelter and Tyler L. Moersch, "Combinatorial Atomic Layer Deposition of  $(\text{HfO}_2)_x(\text{ZrO}_2)_{1-x}(\text{SiO}_2)_{6.5}$ ," Presented at the American Chemical Society Meeting, Chicago, March 29, 2000.