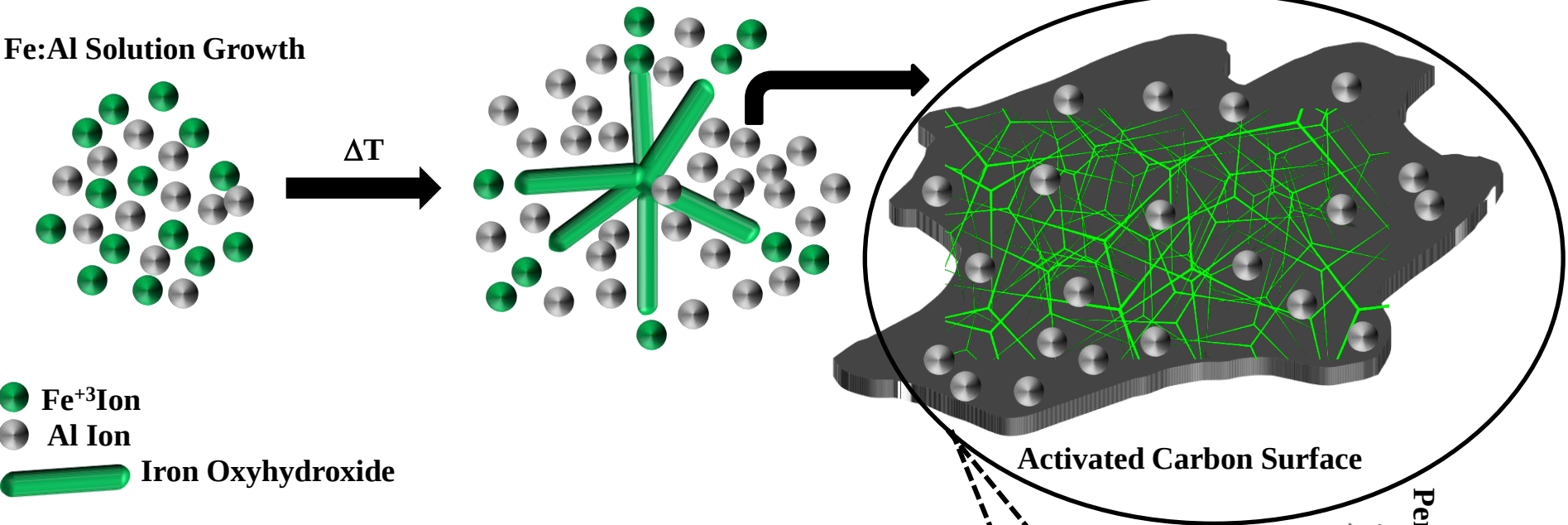


Fe:Al Solution Growth



Characterization

- BET
- SEM-EDX
- XRD
- pK_a distribution
- DTG
- FT-IR
- XPS

Optimization using RSM

CCD-RSM

- Dependent variables*
- Flow rate
 - Concentration
 - Dose
- Independent Variable*
- Breakthrough Time

Fixed Bed Column Experiments

- Breakthrough Models
- Regeneration and Reuse

