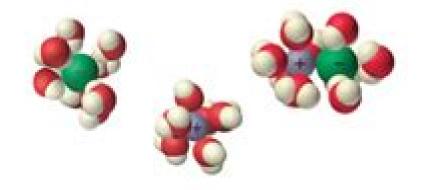
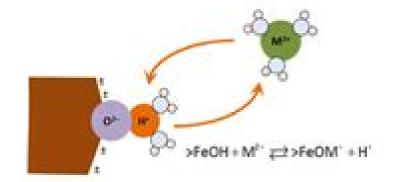


# What Makes the Environmental Fate of Heavy Metals in Groundwater so Complicated?

# Complexation

- Metals coexist with major ions (e.g., calcium, sulfate, carbonate) and H<sub>2</sub>O
- Metal ions can form complexes with other ions, depending on what is present in what concentrations
- Tendency to bind to mineral surfaces
  - Iron oxide surfaces
  - Clay minerals





The environmental fate of metals in groundwater is fundamentally linked with the geochemistry of the aquifer

# **Metals In Groundwater**

Xiaolong Qi



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