

# Motivation for studying Double Perovskites

- High Ferromagnetic  $T_c$  (more than 450K )  
This material is of industrial relevance.
- Half metallic ferromagnet, with electrical current which is 100% spin polarized.
- $T_c$  can be increased by electron doping.
- The origin of the ferromagnetism is not clear; double perovskite physics is interesting!