Summarize what are the requirements for a material to show a magnetocaloric effect

- Magnetic requirements
- 1. Large Magnetization / volume or mass
- 2. Tc adapted to applications temperature Tunable T_c
- 3. Small hysteresis if any
- 4. Low magnetic anisotropy
- 5. Easily saturable material => low H needed for the device
- 6. Large magnetocaloric effect ΔS and ΔT

- Other requirements
- 1. Mechanichal stability
- 2. Corrosion resistance
- 3. Good thermal conductivity
- 4. Cheap raw material
- 5. Low cost synthesis process