New Chromium-Based Material with Both Ferromagnetic and Ferroelectric Properties

Chemical Science

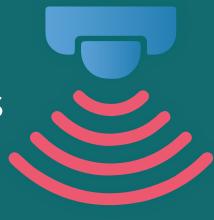


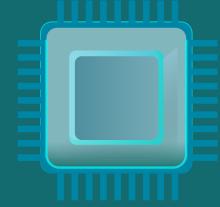
Materials with co-existing ferromagnetism and ferroelectricity can have a wide range of applications



Information storage device

Magnetoelectric sensors





Memory components

Infrared detectors

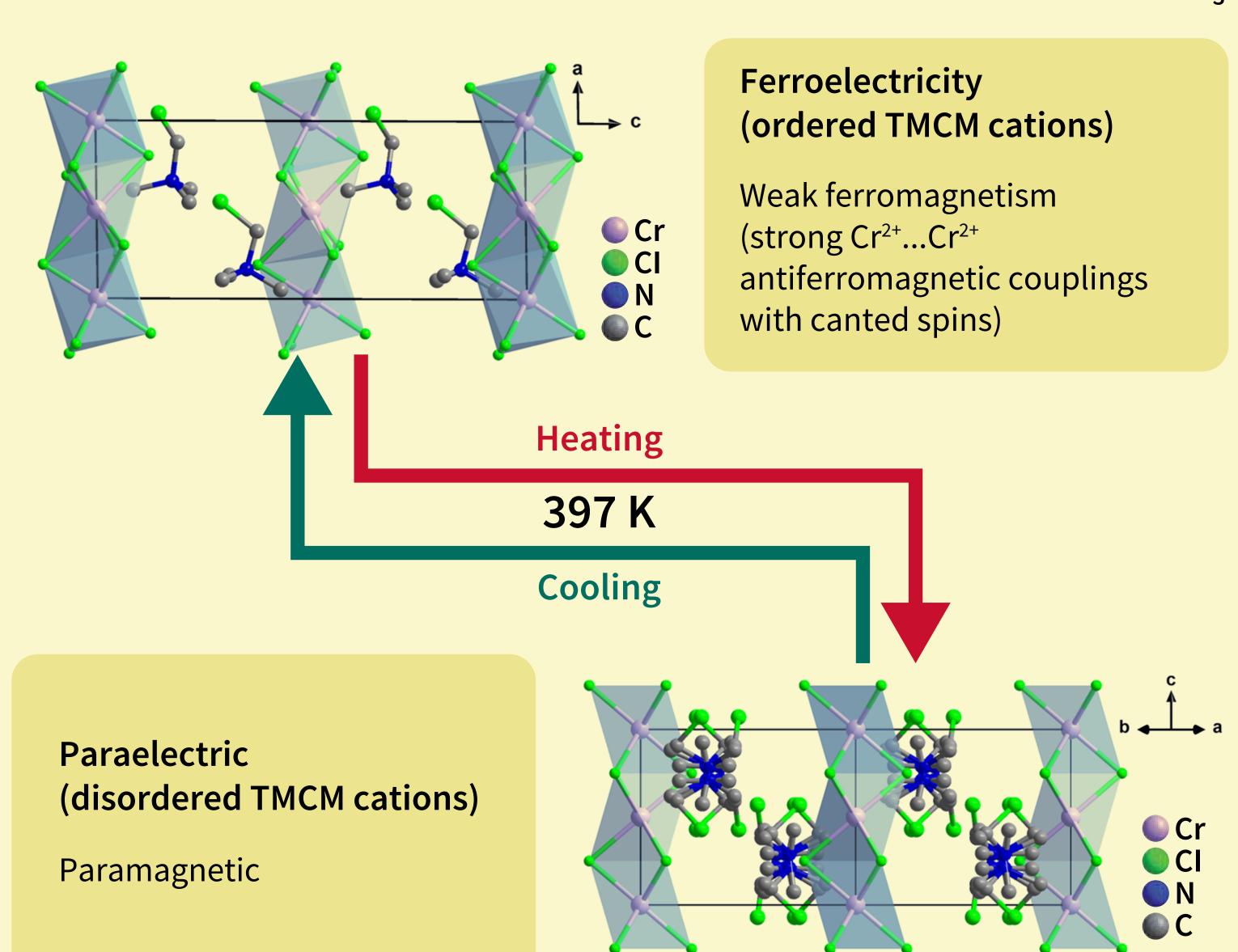




Ultrasound probes

Designing new organic-inorganic hybrid perovskite material with co-existing magnetic and electric orderings

Trimethylchloromethylammonium chromium chloride (TMCM-CrCl₃)



The study reveals a new category of materials with co-existing magnetic and electric ordering: chromium-based organic-inorganic perovskites

