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Andreas Ruediger is full professor and head of the laboratory for ferroelectric nanoelectronics at INRS-EMT in Québec, Canada. He received his PhD in condensed matter physics in 2001 from Osnabrück, Germany followed by two years as research associate and Feodor-Lynen fellow of the Alexander-von-Humbold foundation with J.F. Scott at Cambridge University, UK. From 2003 to 2008 he was tenured senior scientist at the institute of solid state research at Forschungszentrum Jülich and head of the nanoarchitecture laboratory.

His research activities at INRS focus on nanoscale hysteretic oxides for non-volatile memory applications, neuromorphic computing and photocatalysis. The recent activities on printable electronics in collaboration with the group of Prof. Christina Schindler at Munich University of Applied Sciences have demonstrated the feasibility of all-printed non-volatile memory based on electrochemical metallization cells.

The group that comprises researchers from physics, chemistry, materials sciences and electrical engineering deploys functionalized scanning probe techniques including (tip-enhanced) Raman spectroscopy to the investigation of underlying mechanisms in the aforementioned systems with a strong focus on structure-function relation.

Andreas Ruediger is honorary fellow of Munich University of Applied Sciences and fellow of the Institute of Physics (UK). He has authored more than 140 peer reviewed research articles that have so far received more than 2500 citations.