

PRESENTER INFORMATION



Name: Granitzer

First name: Petra

E-mail: petra.granitzer@uni-graz.at

Institute/ affiliation: Institute of Physics
University of Graz
8010 Graz, Austria

BIOGRAPHICAL SKETCH

Petra Granitzer degreed in Physics at the University of Graz studying “Mesoporous Silicon as a Matrix for Ferromagnetic Nanostructures”. Then she worked 3 years at Philips in Klagenfurt, Austria before taking a PostDoc position at the Institute of Physics at the University of Graz till 2008. Afterwards she joined the FELMI (Institute for Electronmicroscopy) at the University of Technology in Graz for one year and returned to the Physics Institute at the University of Graz in 2009. Since 2013 she holds a Senior Scientist Position there. Her work focuses on nanostructuring of silicon and the filling thereof with magnetic materials to achieve semiconducting/ferromagnetic composite systems.

ADDRESS: Institute of Physics, University of Graz, Universitaetsplatz 5, A-8010 Graz Austria
Ph.: +433163805199

TITLE: Vibrating Sample Magnetometer as a Versatile Characterization Instrument presented by means of metal filled porous silicon

ABSTRACT: In this presentation our new magnetometer facility, a vibrating sample magnetometer (VSM) with various additional options is introduced. Beside measuring the magnetization in dependence on the magnetic field, these options enable temperature dependent measurements from 4.2 K up to 1273 K and offer additionally measuring the x- and y- magnetization simultaneously. Furthermore electrical transport can be determined, also in dependence on the temperature between 77 K and 950 K. Metal filled porous silicon samples are investigated magnetically and the results are discussed.