

# Spintronic GdFe/Pt THz emitters

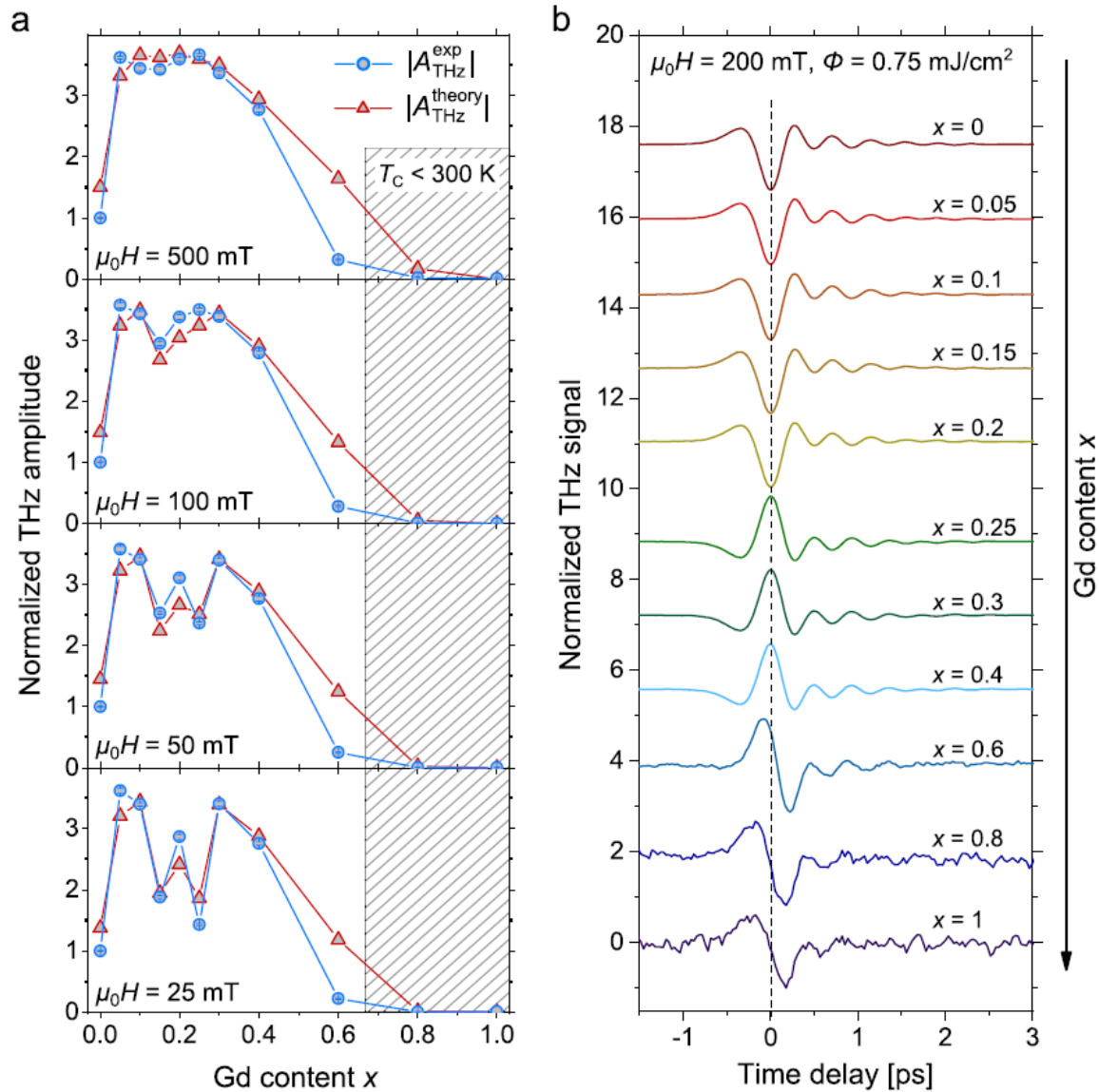


FIG. 1. (a) Terahertz peak-to-peak amplitudes [measured (blue dots) and modeled (red triangles)] as a function of Gd content  $x$  for different external in-plane magnetic fields. The amplitudes are normalized to the emission of Fe/Pt. The model shows excellent agreement with the measured data up to  $x = 0.4$ . (b) Measured normalized terahertz waveforms at a constant external in-plane magnetic field of 200 mT for all investigated samples. In the composition range of  $0.25 \leq x \leq 0.4$ , the terahertz waveforms are inverted due to the change of the dominant magnetic sublattice from Fe to Gd. For  $x \geq 0.6$ , the terahertz waveforms morph into a dispersive shape.

researchers from institute of physics and center of nanotechnology report onto GdFe/Pt THz emitter in Applied Physics Letters.

for more information see the

<https://aip.scitation.org/doi/10.1063/1.5120249>