Figure 1

(1) Ti:Sapphire femtosecond laser; (2) Beam splitter; (3) Lens; (4) GaAs photoconductive antenna; (5) Optical chopper; (6) Off-Axis Parabolic Mirror; (7) Si wafer; (8) ZnTe crystal; (9) Quarter-wave plate; (10) Wollaston prism; (11) Balanced photodetector; (12) Lock-in amplifier; (13) Computer; (14) Dielectric or silver mirror; (15) Glan laser; (16) Half-wave plate; (17) Delay stage with retroreflector; (18) Sample