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Terahertz properties of Tm (Tm=Cu, Ag) doped ZnO thin films MI HE, XINGQUAN ZOU, TOM WU, ELBERT CHIA, Nanyang Technological University — Optical properties of $Zn_{0.95}Tm_{0.05}O$ (Tm=Cu, Ag) thin films are studied by terahertz time-domain spectroscopy (THz-TDS) at different temperatures (10K – 300K) in the frequency range extending from 0.22 – 3 THz. The measured complex dielectric response and conductivity are well fitted by a Drude-based model. Comparing with undoped ZnO thin films, the doping effect of Ag and Cu is investigated.

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