

Abstract Submitted
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A control of localized surface phonon polariton resonance using metal/dielectric multilayer boundary SATYANARAYANA KACHIRAJU, Department of Physics and Astronomy, Texas Tech University, Lubbock, TX 79409, USA, IVAN NEKRASHEVICH, LONG CHANG, Department of Integrated Bio & Nano Systems, University of Houston, Houston, TX 77204, USA, MYOUNG-HWAN KIM, Department of Physics and Astronomy, Texas Tech University, Lubbock, TX 79409, USA, LONG CHANG TEAM — We fabricated subwavelength grating of a metal/dielectric multilayer on silicon carbide. We experimentally demonstrated a single, well-defined, control of localized surface phonon polariton resonance showing near perfect infrared absorption at the optical phonon band of silicon carbide.

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