

Abstracts

Terahertz electronics for chemical and biological warfare agent detection

D. Woolard, R. Kaul, R. Suenram, A.H. Walker, T. Globus and A. Samuels. "Terahertz electronics for chemical and biological warfare agent detection." 1999 MTT-S International Microwave Symposium Digest 99.3 (1999 Vol. III [MWSYM]): 925-928 vol.3.

The capability of solid-state electronics within the terahertz frequency regime is reviewed and assessed. Recent developments in chemical and biological science are presented that provide important insight and motivations for future uses of THz electronics in spectroscopic sensing. Finally, the impact of new advances in nanotechnology and molecular physics on the detection of chemical and biological warfare agents is addressed.

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