

## THz generation and detection using our terahertz instruments

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“Structural characterization of thermal building insulation materials using terahertz spectroscopy and terahertz pulsed imaging” *Non-Destructive Testing and Evaluation International* **2016**, 77, 11–18

A. Majkic et al, “Optical properties of aluminum nitride single crystals in the THz region”, *Optical Materials Express* **5**, No. 10 (2106) **2015**

Uroš Puc, Andreja Abina, Melita Rutar, Aleksander Zidanšek, Anton Jeglič, Gintaras Valušis

“Terahertz spectroscopic identification of explosive and drug simulants concealed by various hiding techniques” *Applied Opt.* **2015**, 54, 4495

Andreja Abina, Uroš Puc, Anton Jeglič, Jana Prah, Rimvydas Venckevičius, Irmantas Kašalynas, Gintaras Valušis, Aleksander Zidanšek

“Qualitative and quantitative analysis of calcium-based microfillers using terahertz spectroscopy and imaging” *Talanta* **2015**, 143, 169–177

A. Abina et al, “Applications of Terahertz Spectroscopy in the Field of Construction and Building Materials”, *Applied Spectroscopy Reviews* 50, 279 (2015)

G. Montemezzani, M. Alonzo, V. Coda, M. Jazbinsek, P. Gunter, "Running electric field gratings for detection of coherent radiation", *J. Opt. Soc. Am. B* 32, 1078-1083 (2015)

C. Vicario, B. Monozslai, M. Jazbinsek, O.P. Kwon, C.P. Hauri, "Intense, carrier frequency and bandwidth tunable quasi single-cycle pulses from an organic emitter covering the Terahertz frequency gap", *Nature Scientific Reports* 5, 14394 (2015)

A. Majkic, M. Zgonik, A. Petelin, M. Jazbinsek, B. Ruiz, C. Medrano, P. Günter, "Terahertz source at 9.4 THz based on a dual wavelength infrared laser and quasi-phase matching in organic crystals OH1" *Appl. Phys. Lett.* 105, 141115 (2014)

B. Monozslai, C. Vicario, M. Jazbinsek, C. P. Hauri, "High-energy terahertz pulses from organic crystals: DAST and DSTMS pumped at Ti:sapphire wavelength" *Optics Letters* 38, 5106-5109 (2013)