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## Publications

### **THz and SHG autocorrelation generations in reflection from different nonlinear crystals excited by femtosecond laser pulses**

Kristensen, M. H., Skovsen, E., Herault, E. & Coutaz, J.-L., 7 Oct 2024, *2024 49th International Conference on Infrared, Millimeter, and Terahertz Waves (IRMMW-THz)*. IEEE (Institute of Electrical and Electronics Engineers), 10697733. (International Conference on Infrared, Millimeter, and Terahertz Waves (IRMMW-THz)).

### **Autocorrelation study of terahertz and second-harmonic pulsed generations in reflection at the surface of a nonlinear dielectric crystal**

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### **Classification of Non-Referenced Continuous-Wave Terahertz Reflection Spectra for Remote Material Identification**

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### **Terahertz and second-harmonic generation in reflection at the surface of a dielectric crystal using a double pulse laser excitation**

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### **Terahertz Optical Rectification and Second-Harmonic Generation at the Surface of Nonlinear Crystals**

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### **Terahertz generation through optical rectification in reflection**

Kristensen, M. H., Herault, E., Zhai, D., Skovsen, E. & Coutaz, J.-L., 1 May 2023, In: *Journal of Applied Physics*. 133, 17, 173103.

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### **Thermal conduction in a densified oxide glass: Insights from lattice dynamics**

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### **All-dielectric one-dimensional gratings exhibiting Fano resonances in the terahertz region**

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**Classification of Terahertz Reflection Spectra using Machine Learning Algorithms**  
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**Using light to bioactivate surfaces: a new way of creating oriented, active immunobiosensors**

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