

TERADAYS



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Terahertz Spectroscopy and Topological Quantum Materials

Content

Quantum materials and terahertz radiation present a mutual interplay. On one hand, linear terahertz spectroscopy allows to study the unconventional excitations of quantum materials and nonlinear and time-resolved spectroscopy their temporal evolution. On the other hand, quantum materials can be used to produce and manipulate terahertz radiation, opening up the possibility of developing new devices and applications. In this talk, I will review our recent results on the investigation of topological quantum materials through linear and pump-probe terahertz spectroscopy and their use for generating terahertz radiation with unconventional properties.

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