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# The science and technology of metamaterials

*Tuesday, 30 August 2022 14:50 (20 minutes)*

Metamaterials and nanoplasmonics bridge the gap between conventional optics and the nanoworld. Exciting and technologically important capabilities range from subwavelength focusing and stopped light to invisibility cloaking, with applications across science and engineering from biophotonics to nanocircuitry. In the talk, we shall present past and recent advances in this exciting field, underscoring important current trends that may lead to improved active imaging, ultrafast nonlinearities on the nanoscale, and topological rainbow trapping.

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