



Contribution ID: 68

Type: **Talk (preferred)**

## **Miniature Zero-index Metamaterial based on Steiner Tree Topological Photonic Crystal**

*Thursday 15 December 2022 12:00 (15 minutes)*

We present a nano-engineered three-dimensional zero-index metamaterial based on Steiner tree networks as a novel topological photonic crystal, featuring a Dirac-like point and a photonic stop-gap to realize low-loss three-dimensional zero-index metamaterial at the wavelength around 1050 nm.

**Authors:** Dr YU, Haoyi (University of Shanghai for Science and Technology); Prof. GU, Min (University of Shanghai for Science and Technology); Prof. ZHANG, Qiming (University of Shanghai for Science and Technology)

**Presenter:** Dr YU, Haoyi (University of Shanghai for Science and Technology)

**Session Classification:** Australian and New Zealand Conference on Optics and Photonics

**Track Classification:** ANZCOP: ANZCOP: Photonic integration and fabrication