

## Accepted Manuscript

Title: All-optical, all-fiber, thermal conductivity sensor for identification and characterization of fluids

Author: Ziga Matjasec Denis Donlagic

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## Highlights

- All-optical characterization of fluids through thermal conductivity measurement
- Small, robust, all-optical, all-silica sensor immune to EMI and corrosive environments; no optical surfaces are in direct contact with fluid
- Sensor can identify different fluids out of the know fluid set, can be used as gas/liquid and liquid-liquid phase detector, can be used to determinate liquids' binary mixtures mass ratio, etc.

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