

yu zhang harbin engineering university Verified email at hrbeu .cn optical trapping ... Articles 1-20

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From being proposed up to now for several decades, the distributed optical fiber sensing technology has been developed rapidly[1,2]. Meanwhile, the research based on Raman scattering ...

We propose and demonstrate a new method for fabricating a Fabry-Perot interferometer sensor. This work uses photopolymerizable materials to construct Fabry-Perot interference ...

This paper systematically introduces the force measurement principle and design process of a three-component optic fiber balance and conducts relevant simulation analysis and ...

A quasi-distributed fiber sensor system for smart-structure applications is proposed. The system is based on a fiber loop topology and interrogated by use of white-light interferometry. The results of ...

A fiber-optic EFPI acoustic sensor based on graphene membrane is produced. Its mechanical sensitivity is 760 nm/Pa at 630 Hz. By analyzing the time-frequency domain, we have demonstrated the...

"This gives us a new way to read out fiber-optic sensor signals without relying on conventional optical-spectrum interrogation, while still exploiting the rich modal behavior of polymer ...

This article reviews the development of nanoliter liquid sensors based on microhole fiber.

J Zhang, Z Sathi, Y Luo, J Canning, GD Peng, Toward an ultra-broadband emission source based on the Bismuth and Erbium co-doped optical fiber and a single 830nm laser diode ...

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