

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

Yibo Zhang received the B.Eng. degree in optoelectronic information science and technology in 2017 from Harbin Engineering University, Harbin, China, where he is currently working toward the Ph.D. ...

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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