

Web of Science®

<< Back to results list

Record 30 of 65

Record from Web of Science®

[Full Text](#) (38) Send to:

1.9 m lasing with Tm3+/Yb3+co-doped air-clad fiber and 931 nm pumping

Author(s): Saidin, N (Saidin, N.)^[1]; Halder, A (Halder, A.)^[2]; Ghosh, D (Ghosh, D.)^[2]; Pal, M (Pal, M.)^[2]; Paul, MC (Paul, Mukul Chandran)^[2]; Bhadra, SK (Bhadra, S. K.)^[2]; Ali, SMM (Ali, S. M. M.)^[1]; Damanhuri, SSA (Damanhuri, S. S. A.)^[1]; Ahmad, H (Ahmad, H.)^[3]; Harun, SW (Harun, Sulaiman Wadi)^[1,3]

Source: MICROWAVE AND OPTICAL TECHNOLOGY LETTERS **Volume:** 55 **Issue:** 5
Pages: 1124-1126 **DOI:** 10.1002/mop.27523 **Published:** MAY 2013

Times Cited: 0 (from Web of Science)

Cited References: 6 [[view related records](#)] [Citation Map](#)

Abstract: A 1.9 m single mode laser is demonstrated by employing a newly developed large mode area Tm3+/Yb3+ co-doped air-clad photonic crystal fiber (PCF) in conjunction with 931 nm pumping for the first time. The PCF has an Yb3+ and Tm3+ ion concentrations of about 16 x 1019 and 4 x 1019 ions/cc, respectively. The laser produces a maximum output power of 4.6 mW with an efficiency slope of 0.70% at a multimode pump power of 2.3 W with a 2.7 m long PCF in a linear cavity with two fiber Bragg grating. The threshold of the input pump power is obtained at around 1.3 W. (c) 2013 Wiley Periodicals, Inc. Microwave Opt Technol Lett 55:1124-1126, 2013; View this article online at wileyonlinelibrary.com. DOI 10.1002/mop.27523

Accession Number: WOS:000316695000046

Document Type: Article

Language: English

Author Keywords: two micron laser; Thulium Ytterbium co-doped fiber; fiber laser

KeyWords Plus: LASER; AREA

Reprint Address: Harun, SW (reprint author)

Univ Malaya, Fac Engr, Dept Elect Engr, Kuala Lumpur 50603, Malaysia.

Addresses:

- [1] Univ Malaya, Fac Engr, Dept Elect Engr, Kuala Lumpur 50603, Malaysia
- [2] CSIR, Cent Glass & Ceram Res Inst, Fiber Opt & Photon Div, Kolkata 700032, India
- [3] Univ Malaya, Photon Res Ctr, Dept Phys, Kuala Lumpur 50603, Malaysia

E-mail Addresses: swharun@um.edu.my

Author Identifiers:

Funding:

Funding Agency	Grant Number
University of Malaya	RG144-12AET
Council of Scientific and Industrial Research, India	

[\[Show funding text\]](#)

Publisher: WILEY-BLACKWELL, 111 RIVER ST, HOBOKEN 07030-5774, NJ USA

Web of Science Categories: Engineering, Electrical & Electronic; Optics

Research Areas: Engineering; Optics

IDS Number: 113UQ

Times Cited: 0

[Create Citation Alert](#)

This article has been cited 0 times in Web of Knowledge.

Related Records:

Find similar Web of Knowledge records based on shared references.

[[view related records](#)]

Cited References: 6

View the bibliography of this record (from Web of Science®).

[Citation Map](#)




Additional information

- [View the journal's impact factor \(in Journal Citation Reports®\)](#)

Suggest a correction

If you would like to improve the quality of the data in this record, please [suggest a correction](#).

ISSN: 0895-2477

 (38) |  |  | Send to:

<< [Back to results list](#)

◀ Record 30 of 65 ▶

Record from **Web of Science**®

View in: | [简体中文](#) | [繁體中文](#) | [English](#) | [日本語](#) | [한국어](#) | [Português](#) | [Español](#)

© 2013 [Thomson Reuters](#) | [Terms of Use](#) | [Privacy Policy](#) | Please give us your [feedback](#) on using Web of Knowledge.