

JAGNEET KAUR ANAND

The list of publications in International journals:

1. J. Kaur et al, "A novel design of an intrinsically gain flattened erbium doped fiber", Optics commun., **183**,p.407 (2000)
2. J. Kaur et al, "A study on the performance of L-band EDFAs under different pumping configurations", Optics commun.,**194**, p.131, (2001)
3. J. Kaur et al, "Role of an isolator in optimization of forward conversion efficiency in an Er-doped SFS source at 1.55 μm ", Optical fiber technology, **5**, p.390 (1999)
4. J. Kaur et al, "Estimation of cut-off wavelength of rare earth doped single-mode fibers", Optics Commun., **170**, p.355 (1999)
5. J. Kaur et al, "Intrinsically gain-flattened staircase profile erbium doped fiber amplifier",
6. J. Anand, J K Anand, E K Sharma, "Study of the amplification characteristics of a coaxial EDF with varying coupling conditions", Optics and Laser Technology, **44**, p. 688, (2012)
7. J. Anand, J K Anand, E K Sharma, "Inherent gain flattening due to two mode interference in erbium doped coaxial fibers", Optical Fiber Technology, **19**, p. 298 (2013).
8. J. Anand, J K Anand, E K Sharma, " Coupled mode analysis for simplified gain calculations in erbium-doped coaxial fibers", J. Opt. Soc. Am. B, **30**, p.1496, (2013)
9. J K Anand and Himanshu Kushwah, "Behaviour of Poynting vector for dielectric-metal-dielectric waveguides and applications", Opt. and Quant. Elect., **52**, pp.1-19, (2020)

List of papers in international Conferences:

- i) J. Kaur, K. Thyagarajan, and B. P. Pal, "Modified Marcuse Formula for spot size measurements – A new proposal", International Conference on Fiber Optics and photonic, Photonics 96, IIT Madras, December 9-13, 1996.
- ii) Jagneet Kaur, S.S. Roy, K. Thyagarajan, and B. P. Pal, "Optimization of forward conversion efficiency in an Er-doped SFS source at 1.55 μm using an isolator", National Symposium on Advances in Microwaves and Lightwaves, University of Delhi, South Campus, March 1998.
- iii) K. Thyagarajan, and Jagneet Kaur, "A novel design of a gain flattened fiber", National Symposium on Advances in Microwaves and Lightwaves, University of Delhi, South Campus, March 2000.
- iv) K. Thyagarajan, and Jagneet Kaur Anand, "Gain enhanced EDFA for WDM applications", First International conference on Optical Communications and Networks (ICO CN'2002), Singapore, Nov. 2002

- v) J. Anand, J. K. Anand, and E. K. Sharma, "Study of the amplification characteristics of a coaxial EDF with varying coupling conditions", PHOTON 10, UK's premier conference in Optics and photonics, Southampton, UK, August 2010.
- vi) J. Anand, J. K. Anand, and E. K. Sharma, "Gain Flattening in Erbium Doped Fiber Amplifiers by use of a Coaxial Fiber", PIERS international conference, Kuala Lumpur, Malasia, March 2012.
- vii) E. K. Sharma, J. Anand, and J. K. Anand, "Pulse Splitting in Coaxial Fibers due to two mode interference", International conference on Fiber Optics and Photonics, OSA 2012.
- viii) H. Kushwah and J. K. Anand, "Behaviour of Poynting vector for optical waveguides and its usefulness in the design of evanescently coupled optical devices", PIERS in China, Dec. 2019.
- ix) H. Kushwah and J. K. Anand, "Behaviour of Poynting vector in Plasmonic devices", Poster presentation at CAMNP (International Conference on Atomic, Molecular, Optical and Nano-Physics with Applications) (DTU, Delhi), Dec. 2019.
- x) H. Kushwah and J. K. Anand, "Electromagnetics of an integrated plasmonic sensor", Poster presentation at CAMNP (International Conference on Atomic, Molecular, Optical and Nano-Physics with Applications) (DTU, Delhi), Dec. 2019.
- xi) J. K. Anand and H. Kushwah, "Study of instantaneous Poynting vector and application in surface plasmon resonance based sensors", in the Meeting on 2nd International summit on Optics, Photonics and Laser technologies, June 2021, Virtual event held in Japan.

Patents:

1. K. Thyagarajan and Jagneet Kaur, "Intrinsically gain flattened erbium doped fiber amplifiers".

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