

LIST OF PUBLICATIONS:**I. INTERNATIONAL JOURNAL PAPERS****2019**

1. Latha G, **Prita Nair**, Resmi K.S, "SPR aided PCF based beam modifiers for efficient coupling into rectangular waveguides", International Journal of Current Engineering and Technology, Vol 9, No 1, Jan-Feb 2019, pp 17-21 . Inpressco , **ISSN** Electronic-2277 – 4106, Print-2347 – 5161.

2018

2. **R.N Perumal**, V Athikesavan, **P Nair**, "Influence of lead titanate additive on the structural and electrical properties of $\text{Na}_{0.5}\text{Bi}_{0.5}\text{TiO}_3\text{-SrTiO}_3$ piezoelectric ceramics", Ceramics International, Volume 44, Issue 11, 1 August 2018, Pages 13259-13266, ISSN: 0272-8842
3. Balasbramanian M, Joshitha C, B.S Sreeja, **Prita Nair**, "Multiport RF MEMS Switch for Satellite Payload Applications", Microsystem Technologies, Micro Nano Systems, Information Storage and Processing Systems, DOI:10.1007/s00542-017-3675-3, Published Online , 26th Dec 2017, ISSN 0946-7076, Print :May 2018, Volume 24, [Issue 5](#), pp 2379–2387

2017

4. Latha G, **Prita Nair**, "Analytical approaches to predict the different guiding regimes for the design of SCPCFs and their applications", Journal of Optoelectronics and Advance Materials, Vol19, No 11-12, Nov-Dec 2017, p. 679-687 Thomas Reuter IF: 0.383, SJR: 0.26, ISSN: 14544164, AU:8625 Journal H-index: 43
5. Resmi K S and **Prita Nair**, "Design optimization of a silicon/organic hybrid micro-resonator for 2D WH/TS optical encoding", Journal of Optoelectronics and Advanced Materials, Vol. 19, No. 5 - 6, May – June 2017, p. 325 – 330.

2016

6. G.Latha , **P. Nair**, "Solid Core Photonic Crystal Fiber Based Optical Studies of Transformer Oil Through Near Field Imaging", **Optik - Int. J. Light Electron Opt**, Vol 127. September, 2016, pp.10991-10998.

2015

7. G.Latha , **P. Nair**, "Feasibility Study of a PCF Sensor for In-situ Monitoring of Silicone Oil Contamination in Transformers", **Journal of Applied Sciences Research**, Vol 11(22), December, 82-86.

2014

8. P.G.V. Ramesh, **Prita Nair**, "A Hybrid Approach for Loss Recovery Mechanism in OBS Networks", **IEEE/OSA Chinese Optics Letters**, Vol.12, no.4, 040602, 2014.
9. P.G.V. Ramesh, **Prita Nair**, "Evaluation Of Hidden Markov Based Adaptive Provisioning Of Optical Burst Networks Amenable For Upgradation To Green Flexigrid Networks", **Journal of Computer Science** 10(5)821-827, 2014.
10. Mahesh N.R , **Prita Nair**, "Design and analysis of an acoustic demultiplexer exploiting negative density, negative bulk modulus and extra-ordinary transmission of membrane-based acoustic metamaterial", **Applied Physics A**, Springer , DOI 10.1007/s00339-014-8278-6, 2014, Vol 116, Issue 3, 1495-1500, Sept 2014.

2013

11. P.G.V. Ramesh, P. Nair, A multi-layer approach for load balancing in optical burst switching networks, **Optik - Int. J. Light Electron Opt.** (Elsevier), Vol 24, No.17, September (2013), pg 2602-2607.

2012

12. Mahesh N.R, Prita Nair, "Passive Acoustic Tunable Structure Based on Single Negative Metamaterials", **Acta Acoustica United with Acustica**, Vol. 98, 2012 , pg 827-83.
- 13.
14. Renilkumar M, Prita Nair, "Low Voltage Widely Tunable Photonic Crystal Channel Drop Filter in SOI Wafer" **IEEE Journal of Micromechanical Systems**, IF 2.157, Vol.21, No. 1, pp. 190 – 197, **2011**.
15. Renilkumar M, **Prita Nair**, "Low loss optical channel drop filters based on high contrast Si/Air photonic crystals by wet anisotropic etching", **Applied Optics**, Vol 50, No.25, E59-E64, September
16. Renilkumar M, **Prita Nair**, "Properties of defect modes in a geometrically chirped 1-D photonic crystal", **Optical Materials**, [Volume 33, Issue 6](#), April 2011, Pages 853-858 2011, Elsevier (I.F: 1.72, ISSN: 0925-3467) *Journal H-index: 92, citations : 6*

2010

17. Renilkumar M , **Prita Nair**, "Design, Fabrication and Characterization of 1-D PBG Structures by Wet Anisotropic Etching of (110) Si for Possible Use as Channel Drop Filters", **International Journal for Microwave and Optical Technology**, Vol.5 No.5, Sept., pg 312-317, 2010 (I.F : 0.22 ISSN-1553-0396), *Journal H-index: 9*

1996

8. **Nair, P**, B. M. Sivaram & J. P. Raina, "Evidence of quasi 4-level operation of Erbium doped fiber lasers on various laser transitions through studies of laser relaxation oscillations under pump modulation", **Indian J. of Physics**, 70B, 6, 495-504, 1996,.
9. **Nair, P**, B. M. Sivaram & J. P. Raina, "Gain and noise characteristics of co and contradirectionally pumped EDFA's with signal upconversion losses at different pump wavelengths", **Jl. of Microwave and Opt. Tech. Lett**, 13, 6, 313-318,1996.
10. **Nair, P**, B. M. Sivaram & J. P. Raina, "Influence of upconversion and pump excited state absorption losses on the performance of co and contradirectionally pumped erbium doped fiber amplifiers", **Jl. of Microwave and Opt. Technol. Lett**, 11, no.1,45-49, 1996.
11. **Nair, P**, B. M. Sivaram & J. P. Raina , "Fiber Raman lasers using all-fiber resonators", **Jl of Optical Engg.**, 35, no .1,272-276, 1996,

1993

8. Nair, P, B. M. Sivaram & J. P. Raina , "Characteristics of Erbium doped fibre lasers", **Jl. of Optical Engg**, 32, no.4, 700-704, 1993.

II. NATIONAL JOURNALS**2012**

1. Renilkumar M, **Prita Nair**, "Low –Loss 2 Port OADM Using 1D Photonic Crystal And 3-Port Optical Circulator", **J. ISSS** Vol. 1 No. 1, pp. 10-15, Sept 2012 (Now part of Elsevier group)

III . MONOGRAPH

1993

1. Sivaram B.M., J.P.Raina, Prita Nair and Mridula Joshi, Chapter titled, "", Invited article in "**Optoelectronics: Technologies and applications**", 113-142, SPIE Optical Engineering Press, U.S.A, 1993.