

Profile for DC Member

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9.	Area of specialisation	: RF and Photonics, Millimeter-Wave Technology, Antennas, Wireless Communication
10.	Publication details (Last 5 years: 2016-2020)	: Journal Int: 6 Nat: 1 Conference Int:11 Nat: 6

Papers Presented / Published:

International Journals:

1. Vijayakumar K, **Baskaran M**, Gayathri V and Gayathri P “Design of 4 x 4 Antenna Array for Breast Cancer Detection” International Journal of Analog Integrated Circuits and Signal Processing, Springer, August (2020). **(IF : 0.925)**
2. **Baskaran M**, Prabakaran R and Santhoshi Gayathri T, “Photonic generation of frequency 16-tupling Millimeter wave signal using polarization property without an optical filter”, Optik- International Journal for Light and Electron Optics, Vol. No.184, pp. 348-355, Elsevier, April (2019). **(IF : 2.187)**
3. **Baskaran M** and Prabakaran R “Optical millimeter wave signal generation with frequency 16-tupling using cascaded MZMs and no optical filtering for radio over fiber system,” Journal of the European Optical Society 14, Springer, April (2018). **(IF : 1.199)**
4. **Baskaran M** and M.Ganesh Madhan “A novel approach for simultaneous Millimeter wave generation and high bit rate Data transmission for Radio over Fiber (RoF) systems” Optik- International Journal for Light and Electron Optics, 125 (2014), Pages:6347-6351, Elsevier. **(IF : 1.191)**

National Journals:

1. **Baskaran, M** and Vijayakumar, K, Optical Milli-Meter Wave Signal Generation using Frequency Octupling Without an Optical Filter, International Journal of Engineering and Advanced Technology, (2019), Vol.No.9, pp.168-171. **(Scopus Indexed)**
2. **Baskaran M** , Vijayakumar K and Govindaraj, “Optical Millimeter Wave Generation via Frequency 32 tupling for Radio over Fiber”, International Journal of Engineering, Applied and Management Sciences Paradigms, (2019). **(UGC Approved)**
3. **Baskaran M** and M.Ganesh Madhan “Photonic Millimeter-wave generation using Stimulated Brillouin Scattering (SBS) for Radio over Fiber (RoF) systems” International Journal of Applied Engineering Research, (2015), Vol. 10 Pages: No.66-68. **(Scopus Indexed)**
4. **Baskaran M**, S.Ethiraj and T.Gokula Krishnan “Eliminating the effects of Fog and Rain Attenuation for Live video streaming on Free Space Optics” International Journal of Engineering Research and Applications, March 2013, Spl. Issue, Pages:06-10, ISSN online: 2248-9622. **(Scopus Indexed)**

Accepted:

1. **Baskaran, M**, Vijayakumar, K and Prabakaran R “A Filter less Frequency 16-Tupling based Optical Millimeter-Wave Signal Generation Using Cascaded Polarization Modulators” Journal of The Applied Computational Electromagnetics Society.

International Conferences & Seminars:

1. **Baskaran, M**, and Prabakaran, R, 2016, ‘Photonic Generation of Microwave Pulses Using Stimulated Brillouin Scattering (SBS)-Based Carrier Processing and Data Transmission for Radio over Fiber (RoF) Systems’, International Conference of Wireless Communications and Signal Processing and Networking- (IEEE - WiSPNET’16) Mar-2016, pp. 372-375. SSN College of Engineering, Chennai. **(Scopus Indexed)**
2. Charitra Sree, S, and **Baskaran, M**, 2016 “Design of Radio-over-Fiber Passive Optical Network for Wireless and Wireline Access” International Conference on Communication and Signal Processing (IEEE ICCSP’16), pp. 1864-1867 April 6-8, 2016, India. **(Scopus Indexed)**
3. Esakki Muthu, K, Sivanantha Raja, A, **Baskaran, M** and Prabakaran, R, 2016, ‘A Full duplex Radio over Fiber Transmission based on 16-tupled Optical Millimeter wave Generation’, **TEQIP-II** Sponsored International Conference on Emerging Trend in Electrical, Electronics and Communication Systems-(ICEECS-16) Sep-2016, **Anna University**, Tiruchirappalli.
4. **Baskaran, M**, Prabakaran R, and Santhoshi Gayathri, T, 2018, ‘Optical millimeter wave signal generation employing cascaded Polarization modulators’, Optical Society of India – International Symposium on Optics- (OSI-ISO 2018) Sep-2018, pp. 239-241. **IIT Kanpur**.
5. **Baskaran M**, and Santhoshi Gayathri, T, 2018, ‘Photonic 16 tupling generation using two dual parallel polarization modulators in a cascade configuration’, International conference on Fiber Optics and Photonics- (PHOTONICS 2018) Dec-2018, Paper No.156, ISBN 978-93-88653-41-1, **IIT Delhi**.
6. Santhoshi Gayathri,T, and **Baskaran M**, 2019, ‘Frequency 16 Tupling Technique with the use of Four Parallel Polarization Modulators’, International Conference of Wireless Communications and Signal Processing and Networking- (IEEE -WiSPNET’19) Mar-2019, pp. 282- 286. SSN College of Engineering, Chennai. **(Scopus Indexed)**
7. **Baskaran M** and Vijayakumar K, “Optical millimeter wave signal generation using frequency 32-tupling without an optical filter” ICRMR-2019, **GOA University**, Goa.
8. **Baskaran M** and Prabakaran R “Millimeter wave generation based on Stimulated Brillouin Scattering (SBS)and high bit rate Data transmission for Radio over Fiber (RoF) systems“ Advances in Photonics, held at **IIT-Kharagpur**, 2015.
9. **Baskaran M**, S.Ethiraj and T.Gokula Krishnan “Eliminating the effects of Fog and Rain Attenuation for Live video streaming on Free Space Optics” Proc. of International Conference on Applied Sciences and Engineering ICASE 2012, Hyderabad, India, July 2012, ISBN: 978-81-923541-0-8.
10. **Baskaran M** and S.Ethiraj “Free Space Optic Networking System” Proc.of International Seminar on Wireless Communication, Mobile Computing and Emerging Technologies WICOMET 2011,Ernakulam, Kerala,India, September 2011.
11. **Baskaran M** and S.Sevagan “Generation of Millimeter-Wave using Four wave Mixing” Proc. Of International Conference on Computer Communication and Power Systems ICCCPs 2020, Chennai, India, May 2020.

National Conferences:

1. **Baskaran M** and Dr.N.Gunasekaran “Analysis and Dimensioning of Switchless Single Layer Optical Network” Proc. of **National Conference on ADELCO 2004** organized by National Engineering College at Kovilpatti.

2. S.Ethiraj, **Baskaran M** and Anusha Meenakshi “Reflective semiconductor Optical Amplifier Model used as a Modulator in Radio over Fiber Systems” Proc. of National Conference on Communication Control and Energy System 2011, Chennai, Pages:138-140, ISBN:978-93-80624-41-9.
3. **Baskaran M** and T.Vennila “Optimized Optical Wireless Transmission Systems” Proc. of National Conference on Communication Systems and Technologies (NCCST’13) organized by University VOC College of Engineering at Thoothukudi.
4. **Baskaran M**, S.Abishake and M.Magesh “Free Space Optic Networking System” Poster session on Emerging Antenna Technologies & Applications organized by IEEE Antennas and Propagation Society (AP-S), Madras Chapter in association with TEQIP, Thiagarajar College of Engineering (TCE), Madurai.
5. **Baskaran M** and Vijayakumar K, “Optical millimeter wave signal generation using frequency octupling without an optical filter” National Conference on Communication Systems (NCOCS-2019), NIT Puducherry, Karaikal on September 2019.