

Dr. B. Elizabeth Caroline.,B.E.,M.E., Ph.D., (AU Supervisor No. : 2740062)

Professor / ECE,

IFET College of Engineering ,

Villupuram, Tamilnadu.- 605108

Specialization : **Antenna**, Wireless communication and networks, Nanotechnology, All optical devices , Image processing, Biosignal Processing

Mobile : +09489462260

E-mailID : carolinebritto96@gmail.com

List of Publications

S.No	PUBLICATION DETAILS	YEAR	INDEXING
1.	Britto Elizabeth C, Danasegaran SK, Johnson W. Design of slotted patch antenna based on photonic crystal for wireless communication. Int J Commun Syst. 2020 ;e4662. https://doi.org/10.1002/dac.4662	2020	SCI
2.	D.Sathish Kumar ,B.Elizabeth Caroline ,J.Williams ,”Investigation of the Influence of fluctuation in Air Hole Radii and Lattice Constant on Photonic Crystal Substrate for Terahertz Applications” , Journal of Optical Engineering , SPIE , Vol. 59(8) pp.087102-1 to 087102-12 August 2020	2020	SCI
3.	M.Margarat, Elizabeth Caroline B. , Susan Christina X.,”M-ary DPSK coded Binary to Gray, BCD to Gray and Octal to Binary All-Optical code converters based on SOA-MZI configuration at 500 Gb/s” Journal of Applied Optics , Optical Society of America Vol. 59,Issue 27,pp. 8126-8135(2020)	2020	SCI
4.	Mrs.Neethi , B.E.Caroline ,”Design of Frequency Reconfigurable Antenna Array Element for L and C Band Application”, International Journal of Control and Automation, Vol. 12 , No 6, pp. 358-363	2020	SCI
5.	Vaijayanthi Nagarajan , Elizabeth Caroline Britto , Senthilvel Murugan Veeraputhiran, “Feature extraction based on empirical mode decomposition for automatic mass classification of mammogram images”, Elsevier ,Journal of Medicine in Novel Technology and Devices Sep,(2019),1-100004,pp.1-14.- SCI	2020	SCI
6.	Jeyarani, J., D. Sriram Kumar and B.E Caroline , “Disaster Management using Free Space Optical Communication System. Photonic Network Communication” – Springer Journals , (2019) https://doi.org/10.1007/s11107-019-00865-9	2019	SCI
7.	B.Neethi Aadithiya, B.Elizabeth Caroline , “Rectangular patch with H Intervention Slot for WBAN Applications ”, International Journal of Recent Technology and engineering Vol.7,Issue 6S4, April 2019(Scopus)	2019	SCOPUS
8.	Jeyaseelan J, Kumar DS, Caroline BE , A Novel Ergodic Capacity Analysis of MISO OFDM –PDM for Free Space Optical Communication System, Optik , International Journal for Light and Electron Optics, Elsevier (2019) , Volume 185, pp.1220-1225 (Impact Factor 1.19)	2019	SCI

9.	Jeyarani, J., D. Sriram Kumar and B.E Caroline (2018) Performance analysis of free space optical communication system employing WDM-PolSK under turbulent weather conditions, Journal of Optoelectronics and Advanced Materials, 20, 506-514 (2018)- (Impact Factor 0.39)	2018	SCIE
10.	J. Jeyarani, D. Sriram Kumar and B. Elizabeth Caroline (2018) PolSK and ASK Modulation Techniques Based BER Analysis of WDM-FSO System for Under Turbulence Conditions”, Springer , Wireless Personal Communications, 103, 3221-3227.(SCI)	2018	SCI
11.	B. Elizabeth Caroline , Susan Christina Xavier Arunachalam P. Kabilan ,Johnson William ,“Performance analysis and comparison of optical signal processing beamforming networks: a survey” Springer ,Journal of Photonic Network Communication, <u>Vol.37, Issue 1</u> , pp 38–52(2018) (Annexure I)- Impact Factor-1.203(SCI) .	2018	SCI
12.	N. Vaijayanthi , B. Elizabeth Caroline and V. Senthilvel Murugan ,“Automatic Detection of Masses in Mammograms using Bi-dimensional Empirical Mode Decomposition”, Journal of medical imaging and health informatics Vol. 8, No. 7,pp.1325-1341. (Annexure I) Journal Citation Reports® , Thomson Reuters .(SCI-E)	2018	SCIE
13.	R.J. Kavitha , Dr. B. Elizabeth Caroline , “Secured and reliable data transmission on multi-hop wireless sensor network”, Journal of cluster computing, Springer , Vol 24, No.7, pp. 1-10 (2017) Impact Factor 1.601. (SCI)	2017	SCI
14.	R.J. Kavitha , Dr. B. Elizabeth Caroline , “Ultrasonic Carrier Communication with Security in wireless Body Sensor Network, Journal of Perspectives em Ciencia DA Informacao, Vol 22, No.2, pp. 13-23 (2017).	2017	SCOPUS
15.	P.Shanmuga Priya, B.Elizabeth Caroline ,M.Margarat, “Design and Simulation of All-Optical Gates Using Co-Propagating SOAMZI Scheme”, International Journal of Advanced in Management, Technology and Engineering Sciences ,Vol 07,No.10,pp.389-398 (2017).	2017	SCOPUS
16.	Dr. B. Elizabeth Caroline , M.Sangeetha , Design And Analysis Of Koch Fractal Wearable Antennas With Jean Substrate International Journal on Applications in Engineering and Technology Volume 3, Issue 1 , March 2017.	2017	SCOPUS
17.	Dr. B. Elizabeth Caroline , M.sangeetha “A Survey on Fractal Wearable Antennas With Different Substrate Materials”, International Journal on Applications in Engineering and Technology Volume 2: Issue 11, November 2016, pp 1-.7	2016	SCOPUS
18.	R.J. Kavitha , Dr. B. Elizabeth Caroline , “Hybrid firefly and identity-Bas edring Signcryption scheme based secure date aggregation for clusteed HWSN”, A journal of Transylvanian Review ,Vol 24,No.7,pp.(2016), [Journal Citation Reports® , Thomson Reuters]	2016	SCOPUS

19.	R.J. Kavitha , Dr. B. Elizabeth Caroline , “Hybrid transmission Technique with security in heterogeneous wireless sensor network”, Asian Journal of information technology, Vol.15, Issue 4, pp.651-660(2016).	2016	SCOPUS
20.	B. Elizabeth Caroline , N.Vaijayanthi “Feature Extraction Of Digital Mammogram Based On Multidimensional Complete Ensemble Empirical Mode Decomposition With Adaptive Noise”, International Journal of Advanced Engineering Technology Tech, Vol. 7, Issu1, pp 404-409I(2016).	2016	SCOPUS
21.	Elizabeth Caroline B., Susan Christina X William J, Kabilan A.P. “Compact Photonic Crystal Integrated Circuit for All-Optical Logic Operation” Journal of IET Optoelectronics , Vol. 10, Iss. 4, pp. 142–147 , 2016 (Impact Factor 0.806)(SCI)	2016	SCI
22.	N.Vaijayanthi, B.Elizabeth Caroline and, X.Susan Christina “Decomposition of Mammogram Images based on Bi-dimensional Complete Ensemble Empirical Mode Decomposition with Adaptive Noise”, Australian Journal of Basic and Applied Sciences, 9(31) pp: 674-678(2015).	2015	SCOPUS
23.	B.Nivetha, A.Deepa Lakshmi, Dr.B.Elizabeth Caroline , M.Margarat “The Literature Survey Based On Virtual Fitting Room” International Journal of Advanced Research in Engineering & Management (IJAREM), Vol. 01, Issue 07, pp: 101-104, October 2015.	2015	SCOPUS
24.	R.J. Kavitha , Dr. B. Elizabeth Caroline ,“PROXUM: An Energy Efficient and Privacy - Aware Data Aggregation in Heterogeneous Wireless Sensor Networks”, Advances in Natural and Applied Sciences, 9(6) Special 2015, Pages: 316-321.	2015	SCOPUS
25.	P.Santhini, B. Sahaya Jenila, B. Elizabeth Caroline “Performance Comparison of 16x16 bit Multi-precision Multiplier based on the Vedic and Array Multiplication Technique” International Journal Of Science Engineering And Technology, Vol.03, Issue.42 November-2014, Pages:8426-8431.	2014	SCOPUS
26.	B. Sahaya Jenila, S. Ashvini, B. Elizabeth Caroline “An Efficient Encryption and Compression System for Grayscale and Color Images”, International Journal Of Science Engineering And Technology, Vol.03, Issue.43 December-2014, Pages: 8665-8670.	2014	SCOPUS
27.	M.Lavanya, P.Aravind, M.Valluvan , Dr.B.Elizabeth Caroline ,”Model Based Control For Interacting And Non-Interacting Level Process Using Labview” International Journal of Advanced Research in Electrical, Electronics and Instrumentation Engineering Vol. 2, Issue 7, July 2013 pp:3174-3179.	2013	SCOPUS
28.	Susan Christina Xavier ; Kabilan Arunachalam, Elizabeth Caroline . ,”Design of two-dimensional photonic crystal –based All-Optical Half Adder “ <i>Optical Engineering(SPIE)</i> Vol.52, Issue.2(2013. Annexure I(Impact Factor 0.908) pp.025201-1025201-7.(SCI)	2013	SCI
29.	Elizabeth Caroline B. , Kabilan A.P. and Susan Christina X., ‘PVF2 coated single mode fiber based optical beamformer’, International Journal of Microwave and Optical Technology, ISRAMT publication Vol.5, No.2, pp.105-114, Mar 2010.	2010	SCOPUS

30	Susan Christina X., Kabilan A.P., and Elizabeth Caroline B. , “Ultra Fast Computing Using Photonic Crystal Based Logic Gates”, International Journal of Computer Science and Information Security, Vol.8 No.2, pp.152-155, May 2010.-(SCI)	2010	SCI
31.	Susan Christina X, Kabilan A.P. and Elizabeth Caroline B. , “Ultra compact All Optical Logic gates using Photonic Band gap Material”, International Journal of Nano electronics and Opto electronics Vol.5, No.3, pp.397-401, Dec 2010, .(Annexure I), Thomson Reuters.(SCI)	2010	SCI
32.	Elizabeth Caroline B. , Kabilan A.P. and Susan Christina X., ‘Optical MEMS Based Signal Processor for smart antenna in Mobile broad-band communications’, International Journal of Microwave and Optical Technology, ISRAMT Publication ,Vol.4, No.1, pp. 52-59, Jan 2009	2009	SCOPUS
33.	Elizabeth Caroline B. , Kabilan A.P. and Susan Christina X., ‘An optical beam former for smart antennas in mobile broadband communication’, International Journal of Mobile Communication, Inder Science publication, Vol.7, No.6, pp.683-694, 2009.(Annexure I)- SCI .	2009	SCI