

List of Publications

(A) International SCI Journals (Indexed in Thomson Reuter) Quartile Detail Q1 Q2 Q3 Q4

S. No.	Authors	Quartile SCI With I.F	Year	Title	Complete References of Journals
1.	Sanjeev Kumar Raghuwanshi, Chandan Kumar	Q1 4.7	May 2024	Simultaneous Photonics Generation of Multiple Chirp Rate Microwave Waveform With Manifold Frequency Multiplying Capability by Using Triple Parallel Mach-Zehnder Modulators	Journal of Lightwave Technology DOI: 10.1109/JLT.2024.3398714
2.	Md Danish Nadeem, Md Tauseef Iqbal Ansari, Purnendu Shekhar Pandey, Azhar Shadab, Sanjeev Kumar Raghuwanshi, Santosh Kumar	Q1 5.0	Oct 2024	Recent advances of ECG monitoring and webserver health monitoring applications: A review	Optics & Laser Technology https://doi.org/10.1016/j.optlastec.2024.111039
3.	Sanjeev Kumar Raghuwanshi, Md Tauseef Iqbal Ansari, Azhar Shadab	Q4 1.5	April 2024	Analysis of Tapered Fiber-Optic Surface Plasmon Resonance (SPR) Bio-Sensing Probe With the Effect of Different Taper Profiles and Metal Choices	IEEE Transactions on Plasma Science DOI: 10.1109/TPS.2024.3392672
4.	Sanjeev Kumar Raghuwanshi	Q2 3.9	Mar 2024	Analysis of Tapered Fibre Optic Surface Plasmon Resonance Bio-Sensor Chip with highly Perturbed Taper Profiles	IEEE Transactions on NanoBioscience DOI: 10.1109/TNB.2024.3376824
5.	Chandan Kumar, Md Danish Nadeem, Sanjeev Kumar Raghuwanshi, Santosh Kumar	Q2 4.3	Mar 2024	Recent Advancement in Microwave Photonics Sensing Technologies-A Review	IEEE Sensors Journal DOI: 10.1109/JSEN.2024.3367963
6.	Sanjeev Kumar Raghuwanshi, Md Danish Nadeem, Ritesh Kumar	Q2 2.4	Feb 2024	Generation of arbitrary microwave waveforms based on a dual-parallel Mach-Zehnder modulator driven by a single sinusoidal RF signal	Optical and Quantum Electronics https://doi.org/10.1007/s11082-023-05891-6
7.	Chandan Kumar, Sanjeev Kumar Raghuwanshi, Vikram Kumar	Q4 1.3	Jan 2024	Graphene-based patch antenna array on photonic crystal substrate at terahertz frequency band	Journal of Electromagnetic Waves and Applications https://doi.org/10.1080/09205071.2023.2297701
8.	Sanjeev Kumar Raghuwanshi, Md Danish Nadeem, Ritesh Kumar	Q2 2.4	Jan 2024	Generation of arbitrary shape microwave waveform centered on two fold cascaded Mach-Zehnder modulators	Optical and Quantum Electronics https://doi.org/10.1007/s11082-023-05626-7
9.	Sanjeev Kumar Raghuwanshi	Q4 1.5	Dec 2023	Optimum Design of Tapered Fiber Optic Surface Plasmon Resonance (SPR) Biosensor Probe With Different Metal Choices	IEEE Transactions on Plasma Science https://doi.org/10.1109/TPS.2023.3336982

10.	Vikash Kumar and Sanjeev Kumar Raghuwanshi	Q1 6.8	Nov 2023	Efficiency estimation and hardware implementation of solar PV module system assisted by using surface plasmon resonance sensor	Case Studies In Thermal Engineering https://doi.org/10.1016/j.csite.2023.103479
11.	Md.Danish Nadeem, Sanjeev Kumar Raghuwanshi and Ritesh Kumar	Q2 2.7	Oct 2023	Efficient photonics beam forming system incorporating super structure fiber Bragg grating for application in Ku band	Optical Fiber Technology https://doi.org/10.1016/j.yofte.2023.103436
12.	Ritesh Kumar and , Sanjeev Kumar Raghuwanshi	Q2 2.4	Sept. 2023	Polarization controlled dispersion tunable optoelectronic oscillator and frequency octupling without bandpass filter	Optical and Quantum Electronics https://doi.org/10.1007/s11082-023-05395-3
13.	Vikash Kumar and Sanjeev Kumar Raghuwanshi	Q3 2.4	Sept. 2023	Nanomaterial-Based Surface Plasmon Resonance Sensing Chip for Detection of Skin and Breast Cancer	Plasmonics https://doi.org/10.1007/s11468-023-02022-5
14.	Md Danish Nadeem, Sanjeev Kumar Raghuwanshi, and Ritesh Kumar	Q2 2.8	July 2023	Efficient photonics beam forming system incorporating super structure fiber Bragg grating for application in Ku band.	Optical Fiber Technology 80 : 103436 https://doi.org/10.1016/j.yofte.2023.103436
15.	Sanjeev Kumar Raghuwanshi, and Azhar Shadab	Q1 4.3	July 2023	Analysis of HF Etched Uniformly Thinned Linearly Chirp Types of Refractive Index Profile Fibre Bragg Grating Sensor.	IEEE Sensors Journal. 10.1109/JSEN.2023.3291018
16.	Sanjeev Kumar Raghuwanshi	Q2 1.084	June 2023	Numerical analysis of α -power curved optical waveguides having absorbing boundaries.	Optical Engineering 62, no. 6 (2023): 065109-065109. https://doi.org/10.1117/1.OE.62.6.065109
17.	Azhar Shadab, Md Tauseef Iqbal Ansari, Sanjeev Kumar Raghuwanshi, and Santosh Kumar	Q2 1.905	June 2023	High sensitivity detection of different pH ranges with rGO-nanocomposite coated eFBG sensor.	Applied Optics 62, no. 19 (2023): 5334-5341. https://doi.org/10.1364/AO.492750
18.	Md Tauseef Iqbal Ansari, Sanjeev Kumar Raghuwanshi, and Santosh Kumar	Q1 3.9	May 2023	Recent Advancement in Fiber-Optic based SPR Biosensor for Food Adulteration Detection-A Review	IEEE Transactions on NanoBioscience https://doi.org/10.1109/TNB.2023.3278468

19.	Manoj kumar, Syed sadique anwer askari, Purnendu shekhar pandey, Yadvendra singh, Rajesh singh, Sanjeev kumar Raghuwanshi, Gyanendra kumar singh, and Santosh kumar	Q1 3.476	Mar 2023	Experimental Investigation and DFT Study of Tin-Oxide for Its Application as Light Absorber Layer in Optoelectronic Devices	IEEE Access (Volume: 11) Page(s): 23347 - 23354 https://doi.org/10.1109/ACCESS.2023.3252890
20.	Purnendu Shekhar Pandey, Sanjeev Kumar Raghuwanshi, Rajesh Singh, and Santosh Kumar	Q2 3.336	Jan 2023	Surface Plasmon Resonance Biosensor Chip for Human Blood Groups Identification Assisted with Silver-Chromium- Hafnium Oxide	Magnetochemistry [MDPI], Vol-9 No-1, 2023 https://doi.org/10.3390/magnetochemistry9010021
21.	Azhar Shadab, Md Tauseef Iqbal Ansari, Sanjeev Kumar Raghuanshi and Santosh Kumar	Q1 4.325	Dec 2022	Smoke Detection Using rGO Coated eFBG Sensor For Early Warning Of Coal Fire in Mines	IEEE Sensors Journal, https://doi.org/10.1109/JSEN.2022.3228117
22.	Sanjeev Kumar Raghuwanshi, Purnendu Shekhar Pandey	Q1 3.476	Nov 2022	Sensitivity Enhancement of Surface Plasmon Resonance (SPR) Sensor Assisted by BlueP/MoS ₂ Based Composite Heterostructure	IEEE Access (Volume: 10) Page(s): 116152 - 116159 https://doi.org/10.1109/ACCESS.2022.3219439
23.	Sanjeev Kumar Raghuwanshi, Purnendu Shekhar Pandey	Q2 1.368	Oct 2022	Optimum Design of Surface Plasmon Resonance (SPR) Tapered Fiber Optic Biosensing Probe With Graphene–MoS ₂ Over Layers for DNA Hybridization	IEEE Transactions on Plasma Science , Page(s): 1 - 8 https://doi.org/10.1109/TPS.2022.3211645
24.	Azhar Shadab, Sanjeev Kumar Raghuanshi and Santosh Kumar	Q1 4.325	August 2022	Advances in Micro-Fabricated Fiber Bragg Grating for Detection of Physical, Chemical, and Biological Parameters—A Review	IEEE Sensors Journal, Volume: 22, Issue: 16, DOI: https://doi.org/10.1109/JSEN.2022.3188813
25.	Vikash Kumar, Sanjeev Kumar Raghuwanshi and Santosh Kumar	Q2 4.325	July 2022	Recent Advances in Carbon Nanomaterials Based SPR Sensor for Biomolecules and Gas Detection—A Review	IEEE Sensors Journal, Vol. 22, No. 16, Page(s): 15661 – 15672, 10.1109/JSEN.2022.3191042
26.	Sanjeev Kumar Raghuwanshi and Purnendu Shekhar Pandey	Q3 3.206	June 2022	A Numerical Study of different Metal and Prism Choices in the Surface Plasmon Resonance Biosensor Chip for Human blood group	IEEE Transactions on NanoBioscience, https://doi.org/10.1109/TNB.2022.3185806 https://ieeexplore.ieee.org/document/9804762
27.	Purnendu Shekhar Pandey, Sanjeev Kumar Raghuwanshi and Yadvendra Singh	Q2 2.89	June 2022	Enhancement of the sensitivity of a surface plasmon resonance sensor using a nobel structure based on barium titanate–graphene–silver	Optical & Quantum Electronics, Springer DOI: https://doi.org/10.1007/s11082-022-03803-8

28.	Vikash Kumar, Sanjeev Kumar Raghuwanshi and Santosh Kumar	Q2 4.325	June 2022	Advances in Nanocomposite Thin-Film-based Optical Fiber Sensors for Environmental Health Monitoring- A Review	IEEE Sensors Journal , DOI: 10.1109/JSEN.2022.3185004 https://ieeexplore.ieee.org/document/9807643
29.	Purnendu Shekhar Pandey, Sanjeev Kumar Raghuwanshi, Azhar Shadab, Md Tauseef Iqbal Ansari, Umesh Kumar Tiwari, and Santosh Kumar	Q2 4.325	June 2022	SPR based Biosensing Chip for COVID-19 Diagnosis: A Review	IEEE Sensors Journal , DOI 10.1109/JSEN.2022.3181423 https://ieeexplore.ieee.org/stamp/stamp.jsp?arnumber=9796032
30.	Azhar Shadab and Sanjeev Kumar Raghuwanshi	Q2 4.325	June 2022	Development and Sensitivity Analysis of rGO-TiO ₂ Coated eFBG Sensor for the Detection of Ethanol in Petrochemicals.	IEEE Sensors Journal , DOI- 10.1109/JSEN.2022.3180205 https://ieeexplore.ieee.org/document/9793643
31.	Sanjeev Kumar Raghuwanshi, Yadendra Singh, and T. Srinivas	Q3 1.961	June 2022	Numerical analysis of a grating embedded bidirectional integrated optical coupler pressure sensor	Applied Optics Vol. 61, No. 16 / 1 June 2022 https://opg.optica.org/ao/abstract.cfm?uri=ao-61-16-4883
32.	Md. Danish Nadeem, Sanjeev Kumar Raghuwanshi	Q3 1.373	May 2022	Optimised design design & analysis of high gain 3×3 square patch array antennas with six ports for airborne application in S-Band	Journal of Electromagnetic Waves and Applications , https://www.tandfonline.com/doi/full/10.1080/09205071.2022.2080592
33.	Md. Danish Nadeem, Sanjeev Kumar Raghuwanshi and Santosh Kumar	Q2 4.325	March 2022	Recent Advancement of Phase Shifted Fiber Bragg Grating Sensor for Ultrasonic Wave Application: A Review	IEEE Sensors Journal , Volume: 22, Issue: 8, Page(s): 7463 - 7474 https://ieeexplore.ieee.org/document/9730922
34.	Purnendu Shekhar Pandey, Sanjeev Kumar Raghuwanshi, Santosh Kumar	Q2 4.325	Dec 2021	Recent Advances in Two-Dimensional Materials-based Kretschmann Configuration for SPR Sensors: A Review	IEEE Sensors Journal , Volume: 22, Issue: 2, Page(s): 1069 - 1080 https://ieeexplore.ieee.org/document/9638491
35.	Purnendu Shekhar Pandey, Yadendra Singh, Sanjeev Kumar Raghuwanshi,	Q2 4.325	Sept. 2021	Theoretical Analysis of the LRSPR Sensor with Enhance FOM for Low Refractive Index Detection Using MXene and Fluorinated Graphene	IEEE Sensors Journal , Volume: 21, <u>Issue: 21</u> , Nov.1, 1 (2021) https://ieeexplore.ieee.org/document/9536767
36.	Ritesh Kumar and Sanjeev Kumar Raghuwanshi	Q2 2.451	Oct 2021	Wavelength Dependent Odd Frequency Multiplication Based on a Superstructure FBG	IEEE PHOTONICS TECHNOLOGY LETTERS , VOL. 33, NO. 19, https://ieeexplore.ieee.org/document/9520353

37.	Yadvendra Singh, Sanjeev Kumar Raghuwanshi, Om Prakash, Pankaj Kumar Saini	Q3 1.842	Oct 2021	Design and development of tilted fiber Bragg grating (TFBG) chemical sensor with regression analysis of grating parameters for sensitivity optimization	Optical and Quantum Electronics , Vol. 53, Article number: 664 (2021) https://link.springer.com/article/10.1007/s11082-021-03328-6
38.	<u>Sanjeev Kumar Raghuwanshi</u> , <u>Yadvendra Singh</u> , <u>Purnendu Shekhar Pandey</u> , <u>Ritesh Kumar</u>	Q1 5.332	Oct 2021	Sensitivity Analysis of HF Etched Uniformly Thinned α -Power Refractive Index Profile Fiber Bragg Grating Sensor	IEEE Transactions on Instrumentation and Measurement Vol 70, DOI: 10.1109/TIM.2021.3119139 https://ieeexplore.ieee.org/document/9565888
39.	Ritesh Kumar and Sanjeev Kumar Raghuwanshi	Q2 2.833	June 2021	Efficient 2D Optical Beamforming Network With Sub Partitioning Capability Based on Raised Cosine Chirped Fiber Grating and Mach-Zehnder Delay Interferometer	IEEE Photonics Journal , Vol. 13, No. 3, June 2021, https://ieeexplore.ieee.org/document/9437833
40.	Sanjeev Kumar Raghuwanshi , Yadvendra Singh, Mandeep Singh, Devendra Chack, Ritesh Kumar, Om Prakash	Q3 1.842	June 2021	High sensitivity detection of chemicals based on sinusoidally apodized structured grating assisted liquid filled directional coupler	Optical and Quantum Electronics (2021) 53:398 https://link.springer.com/article/10.1007/s11082-021-03070-z
41.	Ritesh Kumar, Sanjeev Kumar Raghuwanshi , Md Danish Nadeem	Q2 2.187	June 2021	Chirped fiber grating and specialty fiber based multiwavelength optical beamforming network for 1X8 phased array antenna in S-band	Optik - International Journal for Light and Electron Volume 243, 167044 https://www.sciencedirect.com/science/article/pii/S0030402621007270
42.	Ajay Kumar, Manish Kumar, Sumit Kumar Jindal, Sanjeev Kumar Raghuwanshi , Rakesh Choudhary	Q3 1.842	Mar 2021	Implementation of All-Optical 1x4 memory register unit using the Micro-Ring Resonator Structures	Optical and Quantum Electronics, Springer https://www.researchsquare.com/article/rs-300547/v1
43.	Ritesh Kumar and Sanjeev Kumar Raghuwanshi	Q2 3.413	May-2021	Photonic Generation of Multiple Shapes and Sextupled Microwave Signal Based on Polarization Modulator	IEEE TRANSACTIONS ON MICROWAVE THEORY AND TECHNIQUES DOI: 10.1109/TMTT.2021.3076996 https://ieeexplore.ieee.org/document/9430770
44.	Manish Kumar, Ajay Kumar, Sumit Kumar Jindal & Sanjeev Kumar Raghuwanshi	Q3 1.845	09 Mar-2021	Comprehensive Study of all-in-one Simultaneous Multiple Optical Logic Gate Devices Using Mach-Zehnder Interferometer based on the Electro-optic Effect	IETE Technical Review Taylor & Francis DOI 10.1080/02564602.2021.1892543 https://www.tandfonline.com/doi/full/10.1080/02564602.2021.1892543
45.	Yadvendra Singh, Md Tauseef Iqbal Ansari and Sanjeev Kumar Raghuwanshi	Q1 3.658	02-March-2021	Design and Development of Titanium Dioxide (TiO ₂)-Coated eFBG Sensor for the Detection of Petrochemicals Adulteration	IEEE TRANSACTIONS ON INSTRUMENTATION AND MEASUREMENT , VOL. 70, 2021 https://ieeexplore.ieee.org/document/9347562

46.	Mandeep Singh & Sanjeev Kumar Raghuwanshi	Q3 1.48	Dec-2020	Real-time interrogation of fiber optic biosensor using TiO ₂ coated etched long-period grating	Review of scientific instruments. 91, 125001 (2020); doi: 10.1063/5.0020571 https://aip.scitation.org/doi/10.1063/5.0020571
47.	Yadvendra Singh , Mohan Kumar Paswan & Sanjeev Kumar Raghuwanshi	Q3 2.335	Nov-2020	Sensitivity Enhancement of SPR Sensor with the Black Phosphorus and Graphene with Bi-layer of Gold for Chemical Sensing	Plasmonics (springer) doi.org/10.1007/s11468-020-01315-3 Article no. 1315 https://link.springer.com/article/10.1007/s11468-020-01315-3
48.	Yadvendra Singh & Sanjeev Kumar Raghuwanshi	Q2 2.187	Oct-2020	Titanium dioxide (TiO ₂) coated optical fiber-based SPR sensor in near-infrared region with bimetallic structure for enhanced sensitivity	Optik - International Journal for Light and Electron Optics Volume 226, Part 1 , January 2021, 165842 https://www.sciencedirect.com/science/article/abs/pii/S0030402620316624
49.	Kishan Kumar, Shulin Saraswat1, Sumit Kumar Jindal, Ajay Kumar & Sanjeev Kumar Raghuwanshi	Q4 0.736	Oct-2020	Experimental Validation of an IoT Based Device Selective Power Cut mechanism Using Power Line Carrier Communication for Smart Management of Electricity	(Springer) Journal of Electrical Engineering & Technology ISSN 1975-0102 J. Electr. Eng. Technol. DOI 10.1007/s42835-020-00568-6 https://link.springer.com/article/10.1007%2Fs42835-020-00568-6
50.	Nimish Kumar Srivastava Sanjeev Kumar Raghuwanshi & Reena Parihar	Q3 1.742	Aug-2020	Demonstration of super-Gaussian apodized linearly chirped fibre Bragg grating for efficient beam steering in Ku-band applications	IET Optoelectronics (The Institution of Engineering and Technology) 2020, DOI: 10.1049/iet-opt.2019.0085 https://digital-library.theiet.org/content/journals/10.1049/iet-opt.2019.0085
51.	Sumit Kumar Jindal; Krish Sethi, Ishan Patel, Ajay Kumar & Sanjeev Kumar Raghuwanshi	Q2 3.073	Aug-2020	A semi-analytical and computationally efficient method to calculate the touch-point pressure and pull-in voltage of a mems pressure sensor with a circular diaphragm	IEEE Sensors Journal 24 August 2020 VOL. 21, NO. 2, Released date 15 Jan, 2021 https://ieeexplore.ieee.org/document/9175014
52.	Yadvendra Singh, , Ahana Sadhu & Sanjeev Kumar Raghuwanshi,	Q2 3.073	Aug-2020	Development and Experimental Analysis of Titanium Oxide (TiO ₂) coated Etched Fiber Bragg Grating Sensor for Chemical Sensing	IEEE Sensors Journal Vol. 20, no. 15, August 1, 2020, Page No.8528-8534 https://ieeexplore.ieee.org/document/9119133
53.	Ritesh Kumar, Sanjeev Kumar Raghuwanshi	Q3 1.961	July 2020	Photonic generation of a parabolic-shaped microwave signal and dual-linear-chirp microwave waveform	Applied Optics Vol. 59, No. 20 / 10 July 2020 (I.F.2.18) https://www.osapublishing.org/ao/abstract.cfm?uri=ao-59-20-6024
54.	Sumit Kumar Jindal, Ritobrita De, Ajay Kumar &	Q4 0.596	July 2020	Novel MEMS Piezoresistive Sensor with Hair-Pin Structure to Enhance Tensile and Compressive Sensitivity and Correct Non-Linearity	Journal of Electronic Testing, Springer, doi.org/10.1007/s10836-020-05895-0

	Sanjeev Kumar Raghuwanshi				https://link.springer.com/article/10.1007%2Fs10836-020-05895-0
55.	Chandan Kumar , Sanjeev Kumar Raghuwanshi	Q4 1.061	June 2020	Chromatic Dispersion Induced Semi Optical Pulse Stretching Approach to Beam Steering Applications of Phase Array Antenna	Wireless Personal Communications , Springer ,June 2020,(I.F.-1.061) ISSN 0929-6212 https://link.springer.com/article/10.1007/s11277-020-07605-7
56.	Mandeep Singh, Sanjeev Kumar Raghuwanshi , Om Prakash , Pankaj Kumar Saini	Q2 2.187	June 2020	High-Resolution Fiber Optic Sensor based on Coated Linearly Chirped Bragg Grating	Optik ,Volume 212, June 2020, 164698 https://www.sciencedirect.com/science/article/abs/pii/S0030402620305325?via%3Dihub
57.	Yadvendra Singh , Ahana Sadhu Sanjeev Kumar Raghuwanshi	Q2 3.073	June 2020	Fabrication and Experimental Analysis of Reduced Graphene Oxide (rGO) coated Etched Fibre Bragg Grating Refractometric Sensor	IEEE Sensors Letters , page no 1-1, Vol. 4, No. 7, July 2020 https://ieeexplore.ieee.org/document/9119133
58.	Nimish Kumar Srivastava and Sanjeev Kumar Raghuwanshi ,	Q3 1.961	April - 2020	Photonic-technique-based highly steerable beamforming system incorporating a prism of super Gaussian apodized tunable chirped fiber Bragg grating for X-band applications	Applied Optics Vol. 59, No. 10 / 1 April 2020 Page No.3010-3018 https://www.osapublishing.org/ao/abstract.cfm?uri=ao-59-10-3010
59.	Sanjeev Kumar Raghuwanshi , Nimish Kumar Srivastava, Mandeep Singh	Q3 1.742	April - 2020	Highly steerable microwave beamforming system near Ku band based on the application of linearly CFBG	IET Optoelectronics Volume- 14 ,Issue-2,Page No-81-90, SCI:1.667 https://ietresearch.onlinelibrary.wiley.com/doi/10.1049/iet-opt.2019.0073
60.	Nimish Kumar Srivastava, Reena Parihar, Sanjeev Kumar Raghuwanshi	Q2 3.413	3 Feb 2020	Efficient Photonic Beam forming System Incorporating a Unique Featured Tunable Chirped Fiber Bragg Grating for Application Extended to the Ku-Band	IEEE Transactions on Microwave Theory and Techniques Page no- 1 -7,SCI:3.756 DOI: 10.1109/TMTT.2019.2961889 https://ieeexplore.ieee.org/document/8978687
61.	Ritesh Kumar and Sanjeev Kumar Raghuwanshi	Q3 1.842	Dec- 2019	Simultaneous Photonic Generation of Multiple Chirp and Unchirp Microwave Waveform with Frequency Multiplying Capability for Optical Beam Forming System	Optical and Quantum Electronics 2019 ,51, Article number: 344 (I.F.-1.842) https://link.springer.com/article/10.1007%2Fs11082-019-2059-6
62.	Mandeep Singh, Sanjeev Kumar Raghuwanshi ,	Q2 2.451	Sept 2019	Ultra-Sensitive Fiber Optic Gas Sensor Using Graphene Oxide Coated Long Period Gratings.	IEEE Photonics Technology Letters , vol. 31, pp. 1473-1476 https://ieeexplore.ieee.org/document/8786126
63.	Y. Singh and S. K. Raghuwanshi ,	Q2 3.073	Dec. 2019	Sensitivity Enhancement of the Surface Plasmon Resonance Gas Sensor With Black Phosphorus	IEEE Sensors Letters , vol. 3, no. 12, pp. 1-4,

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64.	S. K. Raghuwanshi , M. Kumar, S. K. Jindal, A. Kumar and O. Prakash	Q1 3.658	Nov 2019	High Sensitivity Detection of Hazardous Chemical by Special Featured Grating Assisted Surface Plasmon Resonance Sensor based on Bimetallic Layer	IEEE Transactions on Instrumentation and Measurement. DOI: 10.1109/TIM.2019.2952705 https://ieeexplore.ieee.org/document/8897628
65.	S. K. Raghuwanshi and M. Kumar	Q1 3.658	Aug. 2019	Highly Dispersion Tailored Property of Novel Class of Multimode Surface Plasmon Resonance Biosensor Assisted by Teflon and Metamaterial Layers	IEEE Transactions on Instrumentation and Measurement. vol. 68, no. 8, pp. 2954-2963 https://ieeexplore.ieee.org/document/8474359
66.	Mandeep Singh, Sanjeev Kumar Raghuwanshi , T. Srinivas	Q2 2.278	8 July 2019	Nanophotonic on-chip hybrid plasmonic electro-optic modulator with phase change materials	Physics Letters A (Elsevier) SCI Impact Factor-2.2 https://www.sciencedirect.com/science/article/abs/pii/S0375960119305894?via%3Dihub
67.	Ajay Kumar · Manish Kumar ² · Sumit Kumar Jindal and Sanjeev Kumar Raghuwanshi	Q3 1.842	27 May 2019	Implementation of all-optical active low/high tri-state bufer logic using the micro-ring resonator structures	Optical and Quantum Electronics (Springer) SCI Impact Factor-1.5 https://doi.org/10.1007/s11082-019-1898-5 https://link.springer.com/article/10.1007%2Fs11082-019-1898-5
68.	Sumit Kumar Jindal , Ankush Mahajan and Sanjeev Kumar Raghuwanshi	Q4 0.715	01 Sept 2019	An inductive-capacitive-circuit based micro-electromechanical system wireless capacitive pressure sensor for avionic applications: Preliminary investigations, theoretical modeling and simulation examination of newly proposed methodology	Measurement and Control (Sage) Volume: 52 issue: 7-8, page(s): 1029-1038 https://journals.sagepub.com/doi/10.1177/0020294019858095
69.	Mandeep Singh, Sanjeev Kumar Raghuwanshi and Om Prakash	Q2 3.073	March 2019	Modeling of grating assisted hybrid plasmonic filter and its on-chip gas sensing application.	IEEE Sensors Journal , doi: 10.1109/JSEN.2019.2897616 https://ieeexplore.ieee.org/document/8635558
70.	Sanjeev Kumar Raghuwanshi and Purnendu Shekhar Pandey	Q4 0.653	March 2019	Finite element method analysis of propagation in a non magnetic coupled waveguide structure having α -power refractive index profile	Indian Journal of Pure & Applied Physics Vol. 57, March 2019 http://nopr.niscair.res.in/handle/123456789/46846
71.	Yadvendra Singh, Sanjeev Kumar Raghuwanshi	Q2 2.187	2019	Design and development of a novel level transmitter utilizing lithium niobate (LiNbO ₃) Mach-Zehnder modulator for hazardous regions	Optik (Elsevier), Volume 181, 2019, Pages 748-759, (SCI https://www.sciencedirect.com/science/article/abs/pii/S0030402618320102?via%3Dihub

72.	Mandeep Singh, Sanjeev Kumar Raghuwanshi and R. K. Bahl	Q2 1.857	28 Sept 2018	Tunable optoelectronic oscillator working in Ku band	Measurement Science and Technology (IOP-UK) https://iopscience.iop.org/article/10.1088/1361-6501/aae4fa
73.	Mandeep Singh, Sanjeev Kumar Raghuwanshi	Q3 1.017	Nov. 2018	Investigation of dispersion influence on the chirp microwave generation using microwave photonic link without optical filter	Scientia Iranica , 25(6D), 3584-3590. https://doi.org/10.24200/sci.2017.4376 http://scientiairanica.sharif.edu/article_4376.html
74.	Sanjeev Kumar Raghuwanshi , Manish Kumar And Om Prakash	Q3 1.961	July 2018	Class modal analysis of a thin multi-trench-assisted liquid-filled optical waveguide coupler for simultaneous multi-sensing applications	Applied Optics (OSA), Vol. 57, No. 20 / 10 July 2018 https://www.osapublishing.org/ao/abstract.cfm?uri=ao-57-20-5614
75.	Sumit Kumar Jindal, Yogesh Kumar Agarwal, Srishti Priya, Ajay Kumar, and Sanjeev Kumar Raghuwanshi	Q2 3.073	Sept. 2018	Design and Analysis of MEMS Pressure Transmitter Using Mach-Zehnder Interferometer and Artificial Neural Networks	IEEE SENSORS JOURNAL , VOL. 18, NO. 17, SEPTEMBER 1, 2018 https://ieeexplore.ieee.org/document/8401871
76.	Yadvendra Singh, Sanjeev Kumar Raghuwanshi & Soubir Kumar	Q3 1.845	June 2018	Review on Liquid-level Measurement and Level Transmitter Using Conventional and Optical Techniques	IETE Technical Review , vol. 36, pp. 329-340 DOI: 10.1080/02564602.2018.1471364 https://www.tandfonline.com/doi/full/10.1080/02564602.2018.1471364
77.	Sanjeev Kumar Raghuwanshi and Manish Kumar	Q4 1.113	May 2018	Highly dispersion tailored properties of few mode fiber Bragg grating-based vibration sensor due to a perturbed apodization profile	Optical Engineering (SPIE), Vol. 57, No. 5, 057105 (2018), doi: 10.1117/1.OE.57.5.057105. https://www.spiedigitallibrary.org/journals/optical-engineering/volume-57/issue-05/057105/Highly-dispersion-tailored-properties-of-few-mode-fiber-Bragg-grating/10.1117/1.OE.57.5.057105.full
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80.	Vikram Palodiya and Sanjeev Kumar Raghuwanshi	Q4 0.653	January 2018	Dispersion characteristics of novel class multi-clad dispersion shifted hollow core fibers for WDM optical systems	Indian Journal of Pure & Applied Physics (CSIR), Vol. 56, pp 76-79, January 2018 http://nopr.niscair.res.in/handle/123456789/43508
81.	Sumit Kumar Jindal, Ankush Mahajan, Sanjeev Kumar Raghuwanshi	Q3 1.559	Oct. 2017	Reliable before-fabrication forecasting of normal and touch mode MEMS capacitive pressure sensor: modeling and simulation	J. Micro/Nanolith. MEMS MOEMS 16(4), 045001 (2017), doi: 10.1117/1.JMM.16.4.045001. https://www.spiedigitallibrary.org/journals/journal-of-micro-nanolithography-mems-and-moems/volume-16/issue-4/045001/Reliable-before-fabrication-forecasting-of-normal-and-touch-mode-MEMS/10.1117/1.JMM.16.4.045001.short
82.	Ritesh Kumar and Sanjeev Kumar Raghuwanshi	Q3 1.842	Oct. 2017	A photonic scheme for the generation of dual linear chirp microwave waveform based on the external modulation technique and its airborne application	Optical and Quantum Electronics (Springer) (2017) 49: 370. https://doi.org/10.1007/s11082-017-1206-1 Impact Factor- 1.042 https://link.springer.com/article/10.1007/s11082-017-1206-1
83.	Reena Sharma and Sanjeev Kumar Raghuwanshi	Q4 1.125	Oct. 2017	Computer Model for EDFA Dynamics Over 1525–1560 nm Band Using a Novel Multi-Wavelength MATLAB Simulink Test Bed for 8-Channels	IETE Journal of Research (Taylor & Francis), DOI http://dx.doi.org/10.1080/03772063.2017.1369908 (SCI Impact Factor 0.909). https://www.tandfonline.com/doi/full/10.1080/03772063.2017.1369908
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85.	Nimish Kumar Srivastava and S.K.Raghuwanshi	Q3 1.842	Aug. 2017	Generation of an arbitrary chirped microwave waveform with high time-bandwidth product for increasing range resolution of RADAR by using photonic technique	Optical and Quantum Electronics (Springer), Vol. 104, No. 10, DOI 10.1007/s11082-017-1139-8, (2017)49:299. Impact Factor- 1.042 https://link.springer.com/article/10.1007/s11082-017-1139-8

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87.	Sanjeev Kumar Raghuwanshi , Nimish Kumar Srivastava and Akash Srivastava	Q4 1.004	8 May 2017	A Novel Approach to Generate a Chirp Microwave Waveform Using Temporal Pulse Shaping Technique	International Journal of Electronics (TETN), Taylor & Francis http://dx.doi.org/10.1080/00207217.2017.1321145 . (Impact Factor: 0.414) https://www.tandfonline.com/doi/full/10.1080/00207217.2017.1321145
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89.	Reena Sharma and Sanjeev Kumar Raghuwanshi	Q4 1.113	Feb. 2017	Modeling and analysis of overmodulation in erbium-doped fiber amplifiers including amplified spontaneous emission	Optical Engineering (SPIE), Vol. 56, No. 2, PP. 026105, (Impact Factor: 1.01) https://www.spiedigitallibrary.org/journals/optical-engineering/volume-56/issue-2/026105/Modeling-and-analysis-of-overmodulation-in-erbium-doped-fiber-amplifiers/10.1117/1.OE.56.2.026105.short
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91.	Sanjeev K. Raghuwanshi, Manish Kumar, and Bidhanshel Singh Athokpam	Q2 3.073	Sept. 2016	Analysis of Novel Class of Surface Plasmon Phenomena Having a Metamaterial Layer Between Two Different Metals for Sensor Application	IEEE SENSORS JOURNAL , VOL. 16, NO. 17, pp. 6617-6624 SEPTEMBER 1, 2016 (Impact Factor 1.9) https://ieeexplore.ieee.org/document/7502141
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93.	Santosh Kumar, Lokendra Singh, Sanjeev Kumar Raghuwanshi and Nan-Kuang Chen	Q3 2.335	18 Aug 2016	Design of Full-Adder and Full-Subtractor Using Metal-Insulator-Metal Plasmonic Waveguides	Plasmonics (2016). doi:10.1007/s11468-016-0350-y (Impact Factor – 2.146)

94.	Devendra Chack, V. Kumar, Sanjeev Kumar Raghuwanshi and Dev Prakash Singh	Q3 2.125	8 Aug 2016	Design and analysis of O–S–C triple band wavelength division demultiplexer using cascaded MMI couplers	Optics Communications , Vol. 382, pp. 324-331 https://www.sciencedirect.com/science/article/pii/S0030401816306927?via%3Dihub
95.	Santosh Kumar, Chandrakanta and Sanjeev Kumar Raghuwanshi	Q3 1.961	18 July 2016	Design of optical reversible logic gates using electro-optic effect of lithium niobate based Mach–Zehnder interferometers	Applied Optics , Vol. 55 No. 10 http://dx.doi.org/10.1364/AO.55.005693 https://opg.optica.org/ao/abstract.cfm?uri=ao-55-21-5693
96.	Sanjeev Kumar Raghuwanshi and B. M. Azizur Rahman	Q3 1.842	July 2016	Modeling of Single Mode Optical Fiber having a Complicated Refractive Index Profile by using Modified Scalar Finite Element Method	Optical and Quantum Electronics , DOI: 10.1007/s11082-016-0632-9, 2016. https://link.springer.com/article/10.1007/s11082-016-0632-9
97.	Ajay Kumar and Sanjeev Kumar Raghuwanshi	Q2 2.187	Oct. 2016	Implementation of Some High Speed Combinational and Sequential Logic Gates using Micro-Ring Resonator	Optik - International Journal for Light and Electron Optics , 127 (2016), PP. 8751-8759. https://www.sciencedirect.com/science/article/pii/S0030402616306830?via%3Dihub
98.	S.K. Raghuwanshi and S. Talabattula	Q2 2.187	Oct. 2015	Electromagnetic analysis of novel class of multiple core/multiple clad step index single mode optical fiber by analytical means	Optik (Elsevier) , Vol. 127, Issue 2, January 2016, Pages 567-575 https://www.sciencedirect.com/science/article/pii/S0030402615014850?via%3Dihub
99.	S. K. Raghuwanshi , Vikram Palodiya	Q2 2.187	2016	Beam propagation and mode coupling study in a coupled waveguide structure by using scalar finite element method	Optik (Elsevier) , vol. 127, pp. 1237-1244, 2016 https://www.sciencedirect.com/science/article/pii/S0030402615016277
100.	Santosh Kumar, Sanjeev Kumar Raghuwanshi*	Q3 1.842	2016	High speed optical 4-bit twisted ring counter using electro-optic effect of Mach-Zehnder interferometer	Optical and Quantum Electronics (Springer) , Vol. 48, No. 42 (2016). https://link.springer.com/article/10.1007/s11082-015-0303-2
101.	S. K. Raghuwanshi , B. M. A. Rahman	Q2 3.073	2015	Analysis of Novel Chirped Types of Refractive Index Profile Metamaterial Planar Slab Optical Waveguide by Finite Element Method for Sensor Application	IEEE Sensor Journal , vol. 15, no. 7, pp. 4141-4147 https://ieeexplore.ieee.org/abstract/document/7065263
102.	S.K. Raghuwanshi , A. Sivaganesh and B. M. A. Rahman	Q2 2.187	2015	A Simple Analytical model to Study of Six Wave Fiber Optical Parametric Amplifier Characteristics	Optik (Elsevier) , vol. 126, 122 pp. 5280-5286, 2015 https://www.sciencedirect.com/science/article/pii/S0030402615011912
103.	Devendra Chack, V. Kumar, S. K. Raghuwanshi	Q3 2.045	Oct. 2015	Design and performance analysis of InP/InGaAsP-MMI based 1310/1550-nm wavelength division demultiplexer with tapered waveguide geometry	Opto-Electronics Review (Springer) , Vol. 23, No. 4, pp. 271-277, Oct. 2015 https://www.degruyter.com/document/doi/10.1515/oere-2015-0039/html?lang=en

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105.	Mandeep Singh and S. K. Raghuwanshi	Q4 0.673	2015	Impact of dispersion order on optical millimetre-wave generation based on series optical external modulators without an optical filter	Optica Applicata (Instiute of Physics, Poland), Vol. 44, No. 2, pp. 215-226, 2015 https://opticaapplicata.pwr.edu.pl/article.php?id=2015200215
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107.	Ajay Kumar and S. K. Raghuwanshi	Q4 0.771	2015	Realization of Optical Digital Magnitude Comparator Using Electro-Optic Effect Based Cascaded Mach-Zehnder Interferometer Structure	Journal of Nanoelectronics and Optoelectronics (American Scientific Publisher) Vol. 10, No. 6, pp. 1–10, 2015. https://www.ingentaconnect.com/content/asp/jno/2015/00000010/0000006/art00011;jsessionid=ruf9kqslofh.x-ic-live-01
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110.	Sanjeev Kumar Raghuwanshi, Ajay Kumar, Azizur Rahman	Q3 1.544	4 March 2015	Implementation of high speed optical universal logic gates using the electro-optic effect based Mach-Zehnder interferometer structures	Journal of Modern Optics (Taylor and Francis), Vol. 62, no. 12, https://www.tandfonline.com/doi/full/10.1080/09500340.2015.1015636 .
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113.	Sumit Kumar Jindal, Ankush Mahajan, Sanjeev Kumar Raghuwanshi	Q3 1.737	2015	A complete analytical model for clamped edge circular diaphragm non-touch and touch mode capacitive pressure sensor	Microsystem Technologies (Springer),DOI 10.1007/s00542-015-2475-x, https://link.springer.com/article/10.1007/s00542-015-2475-x
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115.	S. K. Jindal*, S. K. Raghuwanshi, Ajay Kumar	Q3 1.345	Sept. 2015	Realization Of MOEMS Pressure Sensor Using Mach-Zehnder Interferometer	Journal of Mechanical Science and Technology , Vol. 29, No. 9, pp. 3831-3839 (Impact Factor:0.761). https://link.springer.com/article/10.1007/s12206-015-0829-z
116.	Mandeep Singh , S. K. Raghuwanshi	Q2 2.281	Dec. 2014	Impact of Higher Order Dispersion on Photonically Assisted Optical Millimeter-Wave Generated using Dual parallel Electro-optic Modulators	Current Applied Physics (Elsevier), vol. 14 pp. 1837-1844, (Impact Factor 2.2). https://www.sciencedirect.com/science/article/pii/S1567173914003125
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118.	Sanjeev Kumar Raghuwanshi, Ajay Kumar	Q2 2.187	Dec. 2014	A new semi – analytical method for the analysis of tapered optical waveguides	Optik (Elsevier), Vol. 125, no. 24, pp. 7515-7221. (Impact Factor 0.742). https://www.sciencedirect.com/science/article/pii/S0030402614011577
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126.	Mandeep Singh, S. K. Raghuwanshi	Q2 2.187	2013	Microwave generation analysis with higher order dispersion in two cascaded Mach-zehnder modulator	Optik (Elsevier), vol. 125, pp. 761-771 https://www.sciencedirect.com/science/article/pii/S0030402613010061
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128.	S. K. Raghuwanshi , Ajay Kumar, Santosh Kumar	Q4 1.113	March, 2013	1 × 4 Signal Router Using 3 Mach-Zehnder Interferometers	Optical Engineering (SPIE), Vol. 52, No. 03 (Impact Factor 1.01) https://www.spiedigitallibrary.org/journals/optical-engineering/volume-52/issue-3/035002/14-signal-router-using-three-Mach-Zehnder-interferometers/10.1117/1.OE.52.3.035002.short
129.	S. K. Raghuwanshi	Q3 1.407	2010	Comparative study of asymmetric versus symmetric planar slab dielectric optical waveguides	Indian J of Phys , (Springer), Vol. 84, No. 7, pp. 831-846, (2015 Impact Factor 1.166).
130.	S. K. Raghuwanshi , S. Talabattula	Q3 1.407	2009	Analytical approximation solutions for 3-D optical waveguides: Review	Indian J. Phys. (Springer), Vol. 83 (2), pp. 1-25, (2015 Impact Factor 1.166). https://link.springer.com/article/10.1007/s12648-010-0059-2
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135.	S. K. Raghuwanshi, P. K. Pattnaik, S. Talabattula Papannareddy R	Q2 2.379	July- Sept. 2006	Analysis of pulse propagation through a Nonlinear Directional Coupler	Journal of Optics, Vol. 35, No. 3, pp. 155-163, July-Sept. 2006 (Springer link). https://link.springer.com/article/10.1007/BF03354805

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(Number of papers)	13	56	44	22

(B) International/National Journals (Indexed in Scopus Data Base)

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1.	Vikash Kumar, Sanjeev Kumar Raghuwanshi, Santosh Kumar	Feb 2024	Highly sensitive Ag/BaTiO ₃ /MoS ₂ nano composite layer based SPR sensor for detection of blood and cervical cancer	Results in Optics https://doi.org/10.1016/j.rio.2023.100597
2.	PurnenduShekhar Pandey & Sanjeev Kumar Raghuwanshi	2020	A Technical Review and Analysis of Surface Plasmon Resonance based Optical Fibre Sensors for Exploiting Oxides Materials	STM Journals- Noida- U.P “Nano Trends-A Journal of Nanotechnology & Its Applications” Volume 22, Issue 1, ISSN: 0973-418X
3.	Vikash Kumar, Sanjeev Kumar Raghuwanshi and shivangi Srivastava	July 2018	Mathematical Modelling Of Bldc Motor For Speed Control & Four Quadrant Operation On Matlab/ Simulink	International Journal of Mechanical and Production Engineering Research and Development (IJMPERD) 4.ISSN (P): 2249-6890; ISSN (E): 225.49-8001 Spec6.ial Issue, Jun 2018, 248-258
4.	Nimish Kumar Srivastava, Akash Srivastava and Snajeev Kumar Raghuwanshi	2018	Microwave waveform generation with high chirp rate and central frequency using dual-parallel mach-zehnder modulator for an efficient microwave beam steering network	Micro7.wave Review - Vol. 24, No. 2, Dece8.mber 2018
5.	Sanjeev Kumar Raghuwanshi and Nimish Kumar Srivastava	2017	Review of Microwave Photonics Technology in the Context of Remote Sensing Application	Reviews in Theoretical Science, Vol. 5, pp. 1–8 (American Scientific Publisher, USA), 2017.
6.	Sanjeev Kumar Raghuwanshi and Ritesh Kumar	2017	Photonics Generation of Tunable Continuous Wave Chirp Microwave Signals Using a Temporally-Stretched and Chirped Pulse-Train.	Reviews in Theoretical Science, Vol. 5, pp. 1–16, (American Scientific Publisher, USA), 2017.

7.	Sanjeev Kumar Raghuwanshi , Mandeep Singh and Reena Sharma	Feb 2016	A Complete Mathematical Model to Study the Characteristics of an Arbitrary Geometry LiNbO ₃ Structure for a High-Speed Mach-Zehnder Modulator for RADAR Applications	J. Opt. Commun. ISSN (Online) 2191-6322, ISSN (Print) 0173-4911, DOI: 10.1515/joc-2015-0028 , Feb 2016.
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9.	S. K. Raghuwanshi , Ritesh Kumar, Akash Srivastava and Nimish Kr. Srivastava	2016	A new proposed scheme to generate Arbitrary Microwave waveform by using four C-Bands Laser	Journal of Optical Communications, DOI 10.1515/joc-2016- 0114, 2016.
10.	Sanjeev Kumar Raghuwanshi and Akash Srivastava	2016	Review of Microwave Photonics Technique to Generate the Microwave Signal by Using Photonics Technology	Journal of Optical Communications DOI 10.1515/joc-2016- 0046 , 2016
11.	Sanjeev Kumar Raghuwanshi , Akash Srivastav and Bidhanshel Singh Athokpam	2016	Review on Photonic Generation of Chirp Arbitrary Microwave Waveforms for Remote Sensing Application	Journal of Optilcal communication, ISSN (Online) 2191-6322, ISSN (Print) 0173-4911, DOI: 10.1515/joc-2016-0065 , July 2016
12.	Sanjeev Kumar Raghuwanshi , Mandeep Singh and Reena Sharma	2016	A Complete Mathematical Model to study the Characteristics of an optical Fiber with Arbitrary Geometry having an Arbitrary Refractive Index Profile	Journal of Optilcal communication, ISSN (Online) 2191-6322, ISSN (Print) 0173-4911, DOI: 10.1515/joc-2016-0008 , May 2016
13.	Vikram Palodiya and S. K. Raghuwanshi	2016	Comprehensive study of z-cut highly integrated lithium niobate optical modulator with adjustable chirp parameters	Journal of Optical Communications, 2016, DOI: https://doi.org/10.1515/joc-2015-0080 , July 2016
14.	Sanjeev Kumar Raghuwanshi , and Srinivas Talabattula	2016	Analysis of Multiple Core/Multiple Clad Step Index Single Mode Optical Fibre by Graphical Techniques	Reviews in Theoretical Science (American Scientific Publisher, USA) (in Press), 2016.
15.	Sanjeev Kumar Raghuwanshi , and B. M. A. Rahman	2016	Characterization and Mode identification Analysis of 3-D Rib Waveguide by using a modified Scalar Finite element method	Reviews in Theoretical Science (American Scientific Publisher, USA) (in Press), 2016.
16.	S. K. Raghuwanshi and Vikram Palodiya	2016	Exact dispersion study of an asymmetric thin planar slab dielectric waveguide without computing $\frac{d^2\beta}{dk^2}$ numerically	Journal of Optical Communications, 2016, 2016.
17.	Sanjeev K. Raghuwanshi , Ritesh Kumar, and Akash Srivastava	2016	Dual-chirp Arbitrary Microwave Waveform Generation by Using a Dual Parallel Mach-Zehnder Modulator Feeding with RF Chirp Signal	Progress in Electromagnetic Research-MIT-USA Vol. 65, 79–92, 2016.
18.	Vikram Palodiya and S. K. Raghuwanshi*	2015	Comparative Study of triple-clad Dispersion Shifted, Dispersion Flattened and Dispersion Compensated Fiber for Broadband Optical Network Application	Journal of Optical Communications, Volume 37, Issue 2, Pages 193–198, ISSN (Print) 0173-4911, Nov. 2015

19.	Sanjeev Kumar Raghuwanshi , B. M. A. Rahman	2015	Characterization and Mode identification Analysis of 3-D Rib Waveguide by using a modified Scalar Finite element method	Reviews in Theoretical Science (American Scientific Publisher, USA), Vol. 4, No. 3, pp. 252-260(9).
20.	Reena Sharma and Sanjeev Kumar Raghuwanshi	2015	RAMAN amplifier gain dynamics with ASE: Numerical analysis and simulation approach	International Journal of Engineering Science and Technology, Vol. 7, No. 3, pp. 52-57, 2015 (Peer review).
21.	Bidhanshel Singh Athokpam* and Sanjeev Kumar Raghuwanshi	2015	Plasmonics Surface Resonance and Its Usage in Sensor	International Journal of Digital Electronics, vol. 1, no. 1 pp. 18-30, 2015. (Peer review)
22.	VikramPalodiya, S. K. Raghuwanshi	2015	Design and parametric study of depressed core optical fiber	In Procedia Computer Sciences (Elsevier Scopus), vol.46, pp. 1385-1392, 2015.
23.	Ajay Kumar and Sanjeev Kumar Raghuwanshi*	2015	Electro-optic Mach-Zehnder Interferometer based Optical Digital Magnitude Comparator and 1's Complement Calculator	J. Opt. Commun. ISSN (Online) 2191-6322, ISSN (Print) 0173-4911, DOI: 10.1515/joc-2015-0028 , September 2015 (SCI Impact Factor 0.2).
24.	Sanjeev Kumar Raghuwanshi , B. M. Azizur Rahman	2015	Propagation and Characterization of Novel Graded and Linearly Chirped Type's of Refractive Index Profile Symmetric Planar Slab waveguide by Numerical Means	Progress in Electromagnetic Research-B (MIT-USA), vol. 62, pp. 255-275 (Impact Factor 4.5).
25.	Sanjeev Kumar Raghuwanshi , Reena Sharma	3 rd May, 2015	Modeling of forward pump EDFA under pump power through MATLAB	International Nano Letter (Springer), Digital Object Identifier (DOI) 10.1007/s40089-015-0149-4. (impact factor: 0.2).
26.	Sanjeev Kumar Raghuwanshi , VikramPalodiya	2015	Analytical Analysis of Leaky Modes in a Multilayer Planar Slab Waveguide for Sensor Applications	Sensor Letters (American Scientific Publisher), USA, Vol. 13, pp. 1-8. (Impact Factor: 1.7)
27.	Sanjeev Kumar Raghuwanshi , Sumit Jindal B. M. A. Rahman	2015	Realization of MOEMS based Temperature Sensor Using Externally Modulated LINBO3 Mach Zehnder Interferometer	Sensor Letters (American Scientific Publisher), USA, Vol. 13. (Impact Factor: 1.66).
28.	S. K. Raghuwanshi , VikramPalodiya, Ajay Kumar, Santosh Kumar	March, 2014	Experimental Characterization of Fiber Optic Communication Link for Digital Transmission System	ICTACT Journal on Communication Technology (IET Inspec.), Vol. 5, Issue 01.
29.	S. K. Raghuwanshi , Debi P. Panda	2014	A complete analytical analysis and modeling of few mode non-uniform fiber Bragg grating assisted sensing waveguide devices	Progress in electromagnetic research M (Cambridge USA), Vol. 36, pp. 23-37. (Impact Factor 4.524)
30.	Ajay Kumar, Santosh Kumar, Sanjeev Kumar Raghuwanshi	2013	Implementation of all-optical logic gate using SOA-MZI structures	Trends in Opto Electro and Optical Communications, Vol. 3, Issue 3,,pp 1-9, (Peer review).
31.	Sumit Kumar Jindal, Sanjeev Kumar Raghuwanshi	2013	A complete analytical model for circular diaphragm pressure sensor with clamped edge	i-manager's journal on circuit and systems, Vol. 1, No. 2, pp. 18-27, (Pro Quest)
32.	Mandeep Singh, S. K. Raghuwanshi	Jun, 2013	Analysis of the crosstalk in optical amplifiers	ICTACT Journal on Communication Technology (Scopus Index), Vol. 4, Issue 02, Jun, 2013.

33.	Ajay Kumar, Sanjeev Kumar Raghuwanshi , Santosh Kumar	2013	53nm Wavelength Tunability due to a Curvature of S-Bend in Optical Power Splitter	International Journal of Engineering and Science (IJES), Vol. 2, Issue 7, pp. 60-77, (Peer review)
34.	Mandeep Singh, S. K. Raghuwanshi	March, 2013	Influence of chromatic dispersion, dispersion slope, dispersion curvature on 61microwave generation	ICTACT Journal on Communication Technology (Scopus Indexing), Vol. 4, Issue 1.(IET inspec)
35.	Ajay Kumar, S. K. Raghuwanshi , Santosh Kumar	2013	Semi-vectorial analysis of parabolically versus exponentially tapered inbuilt chip-to-fiber butt coupler	Journal of Communication Engineering & Systems, Vol 3, No 1, pp. 11-15. (Peer review)
36.	Mandeep Singh, S. K. Raghuwanshi	2013	Comparative Analysis of Power Penalty versus Crosstalk in Optical Active Network Components like Erbium Doped Fiber Amplifier, Raman Amplifier and Semiconductor Optical Amplifier	Trends in Opto-Electro & Optical Communications, Vol. 3, Issue 1, (Peer review)
37.	S. K. Raghuwanshi , Mandeep Singh	March 2013	Effect of higher order dispersion terms on microwave generation due to single mode fiber, dispersion shifted fiber and non-zero dispersion shifted fiber on lithium niobatemach-zehnder modulator	International journal of electrical and electronics engineering research (IJEER), Vol. 3.(Publishers Global)
38.	Ajay Kumar, S. K. Raghuwanshi , Santosh Kumar	Jan. 2013	Effect on modal-index due to an etched film thickness in three-dimensional ridge waveguide	i-manager's Journal on Communication Engineering and Systems, vol. 2, no. 1, pp. 26-31,.(Pro Quest)
39.	S. K. Raghuwanshi , S. Talabattula	2012	Dispersion and peak reflectivity analysis in a non-uniform FBG based sensors due to arbitrary refractive index profile	Progress in Electromagnetic Research B (Cambridge USA),. Vol. 36, pp. 249-265. (Impact Factor 4.5).
40.	S. K. Raghuwanshi , Ajay Kumar, Santosh Kumar	2012	Analytical Study of Finite/Infinite Impulse Response Optical Filter for Signal Processing Application	International Journal of Communication Systems and Networks, vol. 1, no. 2, pp. 80-86, (Elsevier scopus).
41.	S. K. Raghuwanshi , Mandeep Singh	Sep-Nov 2012	Analytical approach to analyze mode fields in arbitrary index fibre with non circular geometry	i-manager's Journal on Electronics Engineering, vol. 3, no. 1, pp. 7-16,.(Pro Quest)
42.	DevendraChack, S. K. Raghuwanshi , V. Kumar	27-30, March 2012	Pulse Propagation Study of 1×3 Multibranch Optical waveguide using BPM	International Journal of Recent Trends in Engineering & Technology (IJRTET), Vol. 7, No. 2, pp. 27-30 .(Journaltocs)
43.	Santosh Kumar, Sanjeev Kumar Raghuwanshi	August 2012	Performance study of parabolically versus exponentially tapered multimode interference coupler	Trends in Opto Electro and Optical Communications, Vol. 2, Issue 2, Pages 8-17.(Peer review)
44.	Sanjeev Kumar Raghuwanshi , Santosh Kumar	Dec 2011- Feb 2012	Step discontinuity analysis in an asymmetric single mode thin planar slab taper optical waveguide	i-manager's Journal on Electronics Engineering (JELE), vol. 2, no. 2, pp. 43-48. (Pro Quest)
45.	S. K. Raghuwanshi , Santosh Kumar	April 2012	Analysis of planar tapered dielectric optical waveguides using matrix approach without considering the reflection of the fields at the taper boundary	i-manager's Journal on Communication Engineering and Systems (JCES), Vol. 1, no. 2, pp. 23-26,.(Pro Quest)
46.	S. K. Raghuwanshi , Santosh Kumar	February- April 2012	Analytical expression for dispersion properties of circular core dielectric	i-manager's Journal on Future Engineering & Technology (JFET), Vol. 7, no. 3, pp. 26-34,.(Pro Quest)

			waveguide without computing $\frac{d^2\beta}{dk^2}$ numerically	
47.	S. K. Raghuwanshi , R. R. Pandey, V. Kumar	July 2011	Optimization of substrate-radiation/substrate-cove radiation modes in planar slab optical waveguide structure	International Nano Lett.,(Springer), Vol. 1, no. 2, pp. 91-96. (Impact Factor 0.2).
48.	S. K. Raghuwanshi , V. Kumar, Devendra Chack, R. R. Pandey	2011	Dispersion study of even mode thin planar slab dielectric waveguide without computing $\frac{d^2\beta}{dk^2}$ numerically	Elsevier Procedia-Technology Journal (ISSN: 1877-0509), pp. 286-290.
49.	S. K. Raghuwanshi , V. Kumar. R.R. Pandey	2011	Derivation of Eigen value Equation by using Equivalent Transmission Line method for the case of Symmetric/Asymmetric Planar slab Waveguide Structure	Journal of International Academy of Physical Sciences, Vol. 15 No.1, pp. 1-14, (Scopus Indexing).(Peer review)
50.	S. K. Raghuwanshi	2011	Ray paths in an Elliptic parabolic refractive index profile fiber	World Journal of Science and Technology, Vol. 1, no. 8, pp. 74-78.(Peer review)
51.	S. K. Raghuwanshi , V. Kumar	2011	Analysis of double clad single-mode step-index fibers	World Journal of Science and Technology, pp. 79-83, Vol. 1, no. 8.(Peer review)
52.	S. K. Raghuwanshi , R. R. Pandey and V. Kumar	Sept-Nov. 2010	Calculation of mode-coupling coefficient using symmetric/asymmetric Waveguide Grating Structures	I-managers J. on Electronics Engineering, Vol. 1, no. 1, pp. 52-58. (Pro Quest)
53.	S. K. Raghuwanshi , S. Talabattula,	2008	Asymmetric pulse distortion due to pulse walk-off phenomena in wide-band DWDM Raman amplification systems	International J. of Engg. Research and Industrial Appls. (IJERIA), Vol. 1, No. 3, pp. 209-223.(Peer review)
54.	S. K. Raghuwanshi , S. Talabattula	15 Dec. 2007	Analytical method to estimate the bandwidth of an uniform FBG based instrument	J. Instrum. Soc. India, Vol. 37, No. 4, pp. 297-308,.(Peer review)

(C) International/National Conferences:

C.1. Paper Presented in Abroad personally

S. No.	Authors	Year	Title	Name and Place of Conference
1.	Vikash Kumar, Sanjeev Kumar Raghuwanshi, Santosh Kumar	27 Jan-2 Feb 2024	Detection of early-stage cancer in adrenal gland (PC12) cells using a prism-based SPR biosensor	SPIE Photonics west San Francisco, California, United States
2.	Kuldeep Choudhary, B Bala Subbanna, Shikha Uniyal, Prabha Shankar Sharma, Vivek Kumar Gupta, Sanjeev Kumar Raghuwanshi, Santosh Kumar	27 Jan-2 Feb 2024	Optical sensing of vitamin C concentrations: a novel approach with etched fiber-based plasmon sensor	SPIE Photonics west San Francisco, California, United States
3.	Md Tauseef Iqbal Ansari, Azhar Shadab, Sanjeev Kumar	27 Jan-2 Feb 2024	Honey quality assurance: innovative fiber Bragg grating sensor for accurate glucose adulteration detection	SPIE Photonics west San Francisco, California, United States

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4.	Vikash Kumar, Sanjeev Kumar Raghuwanshi, Santosh Kumar	27 Jan-2 Feb 2024	Novel surface plasmon resonance (SPR)-based biosensor for pathogenic bacteria detection (PathoBactD)	SPIE Photonics west San Francisco, California, United States
5.	Prabha Shankar Sharma, Kuldeep Choudhary, Vivek Kumar Gupta, Sanjeev Kumar Raghuwanshi, Santosh Kumar	27 Jan-2 Feb 2024	Optical fiber-based LSPR biosensor for enhanced dopamine detection: advancing personalized healthcare	SPIE Photonics west San Francisco, California, United States
6.	Md Tauseef I Ansari, Sanjeev Kumar Raghuwanshi, Azhar Shadab, Santosh Kumar	27 Jan-2 Feb 2024	Detection of edible oil adulteration using fiber Bragg grating sensor: a fast and accurate approach	SPIE Photonics west San Francisco, California, United States
7.	Chandan Kumar, Md Danish Nadeem, Sanjeev Kumar Raghuwanshi, Santosh Kumar	27 Jan-2 Feb 2024	Advancing microwave waveform generation: photonic dual linear chirp modulation with configurable bandwidth	SPIE Photonics west San Francisco, California, United States
8.	Chandan Kumar, Sanjeev Kumar Raghuwanshi, Santosh Kumar	27 Jan-2 Feb 2024	Comprehensive characterization of a graphene-based plasmonic patch antenna for terahertz applications	SPIE Photonics west San Francisco, California, United States
9.	Ritesh Kumar, Amit Ranjan, Arjun Kumar, Atma Ram Gupta, Md Danish Nadeem, Sanjeev Kumar Raghuwanshi, Santosh Kumar	27 Jan-2 Feb 2024	Performance study of optical filters based on various optical components and their tuning mechanisms	SPIE Photonics west San Francisco, California, United States
10.	Chandan Kumar, Sanjeev Kumar Raghuwanshi, Santosh Kumar	27 Jan-2 Feb 2024	Graphene-based terahertz antenna on a photonic band gap substrate: design, analysis, and performance evaluation for optical applications	SPIE Photonics west San Francisco, California, United States
11.	Md Danish Nadeem, Ritesh Kumar, Sanjeev Kumar Raghuwanshi, Santosh Kumar	27 Jan-2 Feb 2024	Advanced photonic-assisted antenna array: efficient beam steering system for radar application	SPIE Photonics west San Francisco, California, United States
12.	Prashant Kumar, Md Danish Nadeem, Rajnish Raj, Sanjeev Kumar Raghuwanshi, Santosh Kumar	27 Jan-2 Feb 2024	Advancing microwave signal generation: frequency quadrupling using dual-drive Mach-Zehnder modulator	SPIE Photonics west San Francisco, California, United States
13.	Azhar Shadab, Sanjeev Kumar Raghuwanshi, Md Tauseef Iqbal Ansari, Santosh Kumar	28 Jan-2 Feb 2023	Design and experimental analysis of TiO2 coated eFBG sensor for chemical sensing	SPIE Photonics west San Francisco, California, United States Paper 12372-40
14.	Shikha Uniyal, Kuldeep Choudhary, Sanjeev Kumar Raghuwanshi, Surbhi Sachdev, Santosh Kumar	28 Jan-2 Feb 2023	Etched MMF optical fiber based LMR biosensor for dopamine detection	SPIE Photonics west San Francisco, California, United States Paper 12387-6
15.	Vikash Kumar, Sanjeev Kumar	28 Jan-2 Feb 2023	Design and analysis of prism-based surface plasmon resonance optical sensor for detection of ammonia gas	SPIE Photonics west San Francisco, California, United States

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16.	Md Tauseef Iqbal Ansari, Sanjeev Kumar Raghuwanshi, Purnendu Shekhar Pandey, Santosh Kumar	28 Jan-2 Feb 2023	Application of spectrophotometry to detect the urea in milk sample	SPIE Photonics west San Francisco, California, United States Paper 12396-21
17.	Shikha Uniyal, Kuldeep Choudhary, Sanjeev Kumar Raghuwanshi, Surbhi Sachdev, Santosh Kumar	28 Jan-2 Feb 2023	Sensitive detection of vitamin C using etched SMS based LSPR biosensor	SPIE Photonics west San Francisco, California, United States Paper 12372-52
18.	Md Danish Nadeem, Sanjeev Kumar Raghuwanshi, Ritesh Kumar, Santosh Kumar	28 Jan-2 Feb 2023	Modeling of quad ring resonator for tunable delay line in z-domain analysis	SPIE Photonics west San Francisco, California, United States Paper 12429-24
19.	Vikash Kumar, Sanjeev Kumar Raghuwanshi, Santosh Kumar	28 Jan-2 Feb 2023	Realization of prism-based surface plasmon resonance sensor for detection of methane gas	SPIE Photonics west San Francisco, California, United States Paper 12422-37
20.	Azhar Shadab, Sanjeev Kumar Raghuwanshi, Purnendu Shekhar Pandey, Santosh Kumar	28 Jan-2 Feb 2023	Experimental analysis of rGO coated eFBG sensor for the detection of harmful smokes	SPIE Photonics west San Francisco, California, United States Paper 12422-38
21.	Mohammad Danish Nadeem, Sanjeev Kumar Raghuwanshi, Ritesh Kumar, Santosh Kumar	28 Jan-2 Feb 2023	Design and analysis of photonic beam forming system using ring resonator for 1×4 phase array antenna in Ka Band	SPIE Photonics west San Francisco, California, United States Paper 12429-30
22.	Purnendu Shekhar Pandey, Sanjeev Kumar Raghuwanshi, Rajesh Singh, Manoj Kumar, Santosh Kumar	28 Jan-2 Feb 2023	Performance enhancement of surface plasmon resonance biosensor based on prism with Kretschmann configuration assisted by 2D materials	SPIE Photonics west San Francisco, California, United States Paper 12423-40
23.	Md Tauseef Iqbal Ansari, Sanjeev Kumar Raghuwanshi, Azhar Shadab, Santosh Kumar	28 Jan-2 Feb 2023	Detection of petrol adulteration using TiO ₂ -coated etched clad based FBG sensor	SPIE Photonics west San Francisco, California, United States Paper 12417-37
24.	Purnendu Shekhar Pandey, Sanjeev Kumar Raghuwanshi, Shashank Awasthi, Azhar Shadab, Md Tauseef Iqbal Ansari, Santosh Kumar	28 Jan-2 Feb 2023	Sensitivity enhancement of the surface plasmon resonance sensor with nobel structure based on PtSe ₂ and 2D materials	SPIE Photonics west San Francisco, California, United States Paper 12430-103
25.	Vivek Kumar Gupta, Kuldeep Choudhary, Sanjeev Kumar Raghuwanshi, Santosh Kumar	28 Jan-2 Feb 2023	Lossy mode resonance based single mode fiber structure for detection of ascorbic acid	SPIE Photonics west San Francisco, California, United States Paper 12397-17
26.	Yadvendra Singh, Ahana Sadhu and	1 April 2020	Design of highly sensitive etched fiber Bragg grating salinity sensor	SPIE Photonics Europe, 2020 , France, Vol. 11354

	Sanjeev Kumar Raghuwanshi			
27.	Yadvendra Singh, Md. Tauseef Iqbal Ansari and Sanjeev Kumar Raghuwanshi	1 April 2020	Fuel adulteration detection system using etched clad based Fiber Bragg Grating (FBG) sensor	SPIE Photonics Europe, 2020 , France, Vol. 11354
28.	Sanjeev Kumar Raghuwanshi , Yadvendra Singh, Azhar Shadab and Purnendu Shekhar Pandey	1-6 February 2020	Sensitivity analysis of TiO ₂ coated fibre Bragg grating sensor for far infrared detection of chemicals in Indian coal mines	SPIE Photonics west Bios San Francisco, California, United States
29.	Yadvendra Singh and Sanjeev Kumar Raghuwanshi	1-6 February 2020	Performance analysis of reduced graphene oxide (rGO) coated long period fiber Bragg grating with different grating lengths for gas and chemical sensing	SPIE Photonics west Bios San Francisco, California, United States
30.	Sanjeev Kumar Raghuwanshi , Yadvendra Singh, Azhar Shadab and Purnendu Shekhar Pandey	1-6 February 2020	Sensitivity analysis of a square shape apodized fibre Bragg grating chemical sensor assisted by high refractive index Bi-directional coupler on both sides	SPIE Photonics west Bios San Francisco, California, United States
31.	Yadvendra Singh, Ahana Sadhu and Sanjeev Kumar Raghuwanshi	1-6 February 2020	Study and analysis of nature and extent of cladding modes in TFBG structure and their correlation with various grating parameters for design of optimized sensors	SPIE Photonics west Bios San Francisco, California, United States
32.	Manish Kumar, Ajay Kumar, Sanjeev Kumar Raghuwanshi and Shamsul Hassan	1-6 February 2020	Design and analysis of trench-based novel structure for high-sensitive surface plasmon resonance sensor	Proc. of SPIE Vol. 11274 SPIE Photonics west Bios San Francisco, California, United States,
33.	Manish Kumar, , Kartikeya Anand, Sanjeev Kumar Raghuwanshi	1-6 February 2020	Analysis of sensing properties of bending in optical fiber for highly sensitive applications	Proc. of SPIE Vol. 11274 SPIE Photonics west Bios San Francisco, California, United States
34.	Yadvendra Singh, Sanjeev Kumar Raghuwanshi	26 February 2019	Design and analysis of surface-plasmon resonance (SPR) sensor to measure electric field using angle interrogation,"	Proc. SPIE 10912, Physics and Simulation of Optoelectronic Devices XXVII, 109121B, Sans Francisco in California, USA.
35.	Yadvendra Singh, Sanjeev Kumar Raghuwanshi	4 March 2019	Electro-optic-based pressure measurement and transmitter using lithium niobate (LiNbO ₃) MachZehnder modulator for industrial application	Proc. SPIE 10925, Photonic Instrumentation Engineering VI, 1092516, Sans Francisco in California, USA.
36.	Manish Kumar, Sanjeev Kumar Raghuwanshi , Yadvendra Singh	26 February 2019	Design and analysis of low-cost high-sensitive surface plasmon resonance-based biosensor	Proc. SPIE 10912, Physics and Simulation of Optoelectronic Devices XXVII, 1091214, Sans Francisco in California, USA.
37.	Purnendu Shekhar Pandey, Sanjeev Kumar Raghuwanshi and Geetam Singh Tomar	April 2018	The real time hardware of Smart Medicine Dispenser to Reduce the Adverse Drugs Reactions	ICACCE 2018, 4 ICACCE 2018, 4th IEEE International Conference on Advances in Computing Computing&Communication Engineering Communication Engineering Communication Engineering, ECE Paris School of Engineering, Paris, France
38.	Sanjeev Kumar Raghuwanshi , Ritesh	Feb. 2018	Photonic generation of a dual nonlinear chirp microwave waveform	Terahertz, RF, Millimeter, and Submillimeter-Wave Technology and

	Kumar and Manish Kumar		in Ku-band and its comparative study with dual linear chirping capability to distinguish rang-Doppler coupling in radar application	Applications XI, Proc. of SPIE Vol. 10531 at The Moscone Center, Sans Francisco in California, USA. 29 January - 1 February 2018
39.	Manish Kumar and Sanjeev Kumar Raghuwanshi	Feb. 2018	Design and analysis of surface plasmon resonance (SPR) sensor to check the quality of food from adulteration.	Physics and Simulation of Optoelectronic Devices XXVI, Proc. of SPIE Vol. 10526 at The Moscone Center, Sans Francisco in California, USA. 29 January - 1 February 2018
40.	Yadvendra Singh, Sanjeev Kumar Raghuwanshi and Manish Kumar	Feb. 2018	Photonic-based liquid level transmitter using Mach-Zehnder Interferometer for industrial application.	Photonic Instrumentation Engineering V, Proc. of SPIE Vol. 10539 at The Moscone Center, Sans Francisco in California, USA. 27 January - 1 February 2018
41.	Vikram Palodiya, Sanjeev Kumar Raghuwanshi , and Rajeev Arya	Sept. 2017	Analysis of multi mode arbitrary profile Trench Assisted Fiber for Broadband Applications	JSAP-OSA Joint Symposia 2017, Fukuoka, Japan 18–21 September 2017 ISBN: 9784863486416
42.	Manish Kumar, Sanjeev Kumar Raghuwanshi , Prakash Pareek	Feb. 2017	High sensitive pressure sensor based on plasmonic Mach-Zehnder interferometer	Physics and Simulation of Optoelectronic Devices XXV, Proc. of SPIE Vol. 10098, 100981D at Sans Francisco in California, USA. doi: 10.1117/12.2252425
43.	Manish Kumar, Sanjeev K. Raghuwanshi , Vikram Palodiya	Sept. 2016	The design and analysis of a noble surface plasmon resonance based pressure sensor	Plasmonics: Design, Materials, Fabrication, Characterization, and Applications XIV, Proc. of SPIE Vol. 9921, 99212V at San Diego in California, USA doi: 10.1117/12.2237728
44.	Vikram Palodiya and S. K. Raghuwanshi	7 Sept. 2016	Novel design of hollow-core multi clad fiber for long haul optical communication system	Proc. SPIE 9958, Photonic Fiber and Crystal Devices: Advances in Materials and Innovations in Device Applications X, at San Diego in California, USA
45.	Vikram Palodiya and S. K. Raghuwanshi	13-18 Feb 2015	Analysis of bend insensitive Liquid core optical fiber for Broadband network and fiber -to-the-home applications	Proc. of SPIE Vol. 9772 97720Y, X th International Conference on Broadband Access Communication Technologies, at Sans Francisco in California, USA
46.	Santosh Kumar, Ashish Bisht, Sandeep Sharma, S. K. Raghuwanshi , Angela Amphawan	18-22 October 2015	Implementation of an optical binary cell of random access memory based on electro-optic effect in mach-zehnder interferometer	Frontiers in Optics (FiO-2015), OSA Technical Digest (online) (Optical Society of America, 2015), paper JW2A.73, at San Jose, CA, USA
47.	Vikram Palodiya and S. K. Raghuwanshi	12-16 October 2015	Performance Study of Lithium Niobate Modulator based on electro optic effect	Proc. JOP, IX International Conference of the Young Scientists and Specialists "Optics-2015", at Saint Petersburg, Russia
48.	VikramPalodiya and S. K. Raghuwanshi	6-8 July 2015	Analysis of Refractive Index Single Mode Optical Fiber for Fiber-To-The-Home Application	Proc. SPIE 9659, 2 nd International Conference on Photonics Solutions (ICPS), Hua Hin, Thailand

49.	Santosh Kumara, AnamikaKumari, Sanjeev Kumar Raghuwanshi	22 June 2015	Study of optical waveguide sensor using metamaterial as buffer layer with non-linear cladding and substrate	Proc. SPIE 9529, Optical Methods for Inspection, Characterization, and Imaging of Biomaterials II, 95291E, Munich, Germany
50.	Santosh Kumar, Ajay Kumar, Sanjeev Kumar Raghuwanshi	19-23 October 2014	Application of Photonic crystal Fiber Sagnac loop in DWDM as a Flat top Comb-Filter	Frontiers in Optics/Laser Science, Arizona, USA, 19-23 October 2014 (Paper ID JW3A).
51.	Santosh Kumar, Ajay Kumar, Sanjeev Kumar Raghuwanshi	1 May, 2014	Implementation of an optical AND gate using Mach-Zehnder interferometers	Proc. SPIE 9131, Optical Modelling and Design III, SPIE Photonics Europe 2014, Brussels, Belgium, PP. 913120
52.	Santosh Kumar, Ajay Kumar, Sanjeev Kumar Raghuwanhsi	2 May, 2014	Analysis of effect of single and multiple micro-ring resonators as an optical filter using the Mason's gain formula	Proc. SPIE 9130, Micro-Optics 2014, SPIE Photonics Europe 2014, Brussels, Belgium, PP. 913007
53.	Santosh Kumar, S. K. Raghuwanshi, Ajay Kumar	July 2013	1 × 8 Signal Router Using Cascading The Mach-Zehnder Interferometers	6 th IEEE/International Conference on AdvancedInfocomm Technology (IEEE/ICAIT- 2013), pp. 161-162, Hsinchu, Taiwan, July 2013. doi: 10.1109/ICAIT.2013.6621541
54.	Ajay Kumar, S. K. Raghuwanshi, Santosh Kumar	July 2013	Analysis of comb filter using Mach- Zehnder Interferometer	6 th IEEE/International Conference on Advanced InfocommTechnology(IEEE/IC AIT-2013), pp. 179-181, Hsinchu, Taiwan, July 2013. doi: 10.1109/ICAIT.2013.6621557
55.	S. K. Raghuwanshi, Ajay Kumar, S. Kumar	August 19-23, 2012	A method of high repetition rate femtosecond optical pulse generation by using bi-stable optical micro-ring resonators	Progress In Electromagnetics Research Symposium Proceedings, pp. 909-912, Moscow, Russia,
56.	Sanjeev Kumar Raghuwanshi, Santosh Kumar, Radha Raman Pandey	August 19-23, 2012	Analysis of double negative meta- material asymmetric planar slab waveguide by transmission equivalent T-circuit model	Progress In Electromagnetics Research Symposium Proceedings, pp. 702-706, Moscow, Russia,
57.	S. K. Raghuwanshi, S. Kumar, V. Kumar, D. Chack	August 19-23, 2012	Propagation study of Y-branch having inbuilt optical splitters and combiner using beam propagation method	Progress In Electromagnetics Research Symposium Proceedings, pp. 720-724, Moscow, Russia, August 19-23, 2012
58.	D. Chack, S. K. Raghuwanshi, V. Kumar	2012	Pulse propagation study of 1x4 multibranchopticalwaveguides using 3-Y branch optical waveguide	Procedia Information Technology & Computer Science, 3 rd World Conference on Information Technology,barcelona, Spain2012
59.	D. Chack, S. K. Raghuwanshi, V. Kumar, and NiteshkumarAgrawal	2012	Field propagation study of Y- branch assisted by MMI coupler	Procedia Information Technology & Computer Science, 3 rd World Conference on Information Technology, barcelona, Spain

C.2. Paper Presented in India

S. No.	Authors	Year	Title	Name and Place of Conference
1.	Md Danish Nadeem, S.K.Raghuwanshi, and P.S.Pandey	2023	Performance evolution of linearly chirped fiber Bragg grating for time delay analysis in beam steering for enhance communication	IEEE International Conference on Artificial Intelligence and Smart Communication (AISC) G.L.Bajaj – Greater Noida,India
2.	Azhar Shadab, Md Tauseef Iqbal Ansari, Yadendra Singh & S.K.Raghuwanshi	8-11 Jan 2020	Horizontal versus Vertically Etched Fiber Bragg Sensor for Refractive Index Sensing	National Laser Symposium-28,VIT-Chennai
3.	Yadendra Singh, A. Sadhu and S. K. Raghuwanshi	8-11 Jan 2020	On Implementation of Highly Sensitive Evanescent Field Salinity	National Laser Symposium-28,VIT-Chennai
4.	Nimish Srivastava and Sanjeev Raghuwanshi	2019	Demonstration of highly steerable beamforming system incorporating a waveguide of spatiallydistributed fiber bragg grating	International Conference on Signal Processing & Integrated Networks (SPIN-2019), 7 - 8 March 2019, Amity University, Sec-125, Noida, Delhi-NCR, India
5.	Vikas Kumar, Sanjeev Kumar Raghwwanshi and Ravishankar Tiwari	2020	Implementation of Helmet Mounted Display system to Control Missile 3D Movement and Object Detection	IEEE International Conference on Power Electronics & IoT Applications in Renewable Energy and Its Control (PARC 2020), Department of Electrical Engineering, GLA University, Mathura, India
6.	Sanjeev Raghuwanshi and Vikas Kumar	Jan 2019	Design and Development of Dual Axis Solar Panel Tracking System For Normalized Performance Enhancement Of Solar Panel	International Conference on Sustainable Computing in Science, Technology and Management (SUSCOM-2019), February 26 - 28, 2019, Amity University Rajasthan, Jaipur, India
7.	Manish Kumar, S. K. Raghuwanshi	Mar 2019	'Realization of low-cost field-deployable He-Ne Laser based sensor system to check quality of food from adulteration	3rd International Conference on Optical & Wireless Technologies (OWT 2019), March 16-17, 2019, Malaviya National Institute of Technology Jaipur (MNIT Jaipur), India
8.	Vikash Kumar, Snajeev Kumar Raghuwanshi and Ankit Kumar	2018	Hand Talk System for Deaf and Dumb Person	International Conference on Mathematical Modelling and Scientific Computing, 2018, IIT Indore
9.	Ritesh Kumar and Sanjeev Kumar Raghuwanshi	2018	Microwave Optoelectronic Oscillator with Chirping Capability	The International Conference on Fiber Optics and Photonics (PHOTONICS 2018), Dec. 12-15, 2018, IIT Delhi, India
10.	Akash Srivastava and S. K. Raghuwanshi	Sept. 2016	High chirp rate arbitrary microwave waveform generation by using improved temporal pulse shaping followed by LC-FBG	International OSA Network of Students (IONS) 2016, IIT (ISM) Dhanbad, Jharkhand, India, Sept 7-10, CO-Sponsored by OSI, SPIE
11.	Alisha Priya and S. K. Raghuwanshi	Sept. 2016	Study and analysis of Bragg grating in different sensor applications	International OSA Network of Students (IONS) 2016, IIT (ISM) Dhanbad, Jharkhand,

				India, Sept 7-10, CO-Sponsored by OSI, SPIE
12.	Aditi and S. K. Raghuwanshi	Sept. 2016	Indoor Optical Wireless Communication	International OSA Network of Students (IONS) 2016, IIT (ISM) Dhanbad, Jharkhand, India, Sept 7-10, CO-Sponsored by OSI, SPIE
13.	Saurabh Sambhav and S. K. Raghuwanshi	Sept. 2016	Mathematical approach to Stimulation in Tapered Optical Fibre	International OSA Network of Students (IONS) 2016, IIT (ISM) Dhanbad, Jharkhand, India, Sept 7-10, CO-Sponsored by OSI, SPIE
14.	Nimish Kumar Srivastava and S. K. Raghuwanshi	Sept. 2016	Photonic Generation of an Arbitrary Chirped Microwave Waveform for Increasing Range Resolution of RADAR	International OSA Network of Students (IONS) 2016, IIT (ISM) Dhanbad, Jharkhand, India, Sept 7-10, CO-Sponsored by OSI, SPIE
15.	Yadvendra Singh and S. K. Raghuwanshi	Sept. 2016	Beam Deflection Analysis using Finite Element Method for Different Loads	International OSA Network of Students (IONS) 2016, IIT (ISM) Dhanbad, Jharkhand, India, Sept 7-10, CO-Sponsored by OSI, SPIE
16.	Sumit Kumar Jindal and Sanjeev kumar Raghuwanshi	2016	Realization of 2:1 MUX using Mach Zehnder Interferometer structure and its application in selection of output signal of MOEMS pressure and temperature sensor	AIP Conference Proceedings 1715, 020009(2016), doi: 10.1063/1.4942691
17.	Sumit Kumar Jindal and Sanjeev kumar Raghuwanshi	2016	Analytical comparison of circular diaphragm based simple, single and double touch mode- MEMS capacitive pressure sensor	AIP Conference Proceedings 1715, 020018(2016), doi: 10.1063/1.4942700
18.	Sumit Kumar Jindal and Sanjeev kumar Raghuwanshi	2016	Study of materials for the design of MEMS capacitive pressure sensor	AIP Conference Proceedings 1724, 020118 (2016); https://doi.org/10.1063/1.4945238
19.	VikramPalodiya, S. K. Raghuwanshi	11-14 March 2015	Comparative study of step index and trench assisted single mode optical fiber	4 th International conference on Current Developments in Atomic, Molecular, Optical and Nano Physics with Applications (CDAMOP 2015) New Delh
20.	Ajay Kumar, S. K Raghuwanshi , Santosh Kumar	Jan. 30-31, 2014	Photonic crystal Fiber Sagnac loop as a Flat top Comb-Filter	In proceeding National Conference on Emerging Trends in Engineering and Science (ETES) 2014, Asansol
21.	VikramPalodiya, S. K. Raghuwanshi , Ajay Kumar, Santosh Kumar	Jan. 30-31, 2014	Effect of various Parameters on $LiNbO_3$ Modulator using Sellmeier's Equation	In proceeding National Conference on Emerging Trends in Engineering and Science (ETES) 2014, Asansol
22.	S.K Jindal, S.K Raghuwanshi	15, Dec-2014	Analytical Solutions for square shape pressure Microsensors	IJRET, Volume: 03 Special Issue: 15, ICICT, CUSAT, Cochin, India
23.	Reena Sharma, S. K. Raghuwanshi	25-26 Sept. 2014	Analysis of cross phase modulation in EDFA based on the study of phase & frequency chirp	IEEE International Conference on confluence the Next Generation Information Technology Summit (Confluence), Amity University Noida, India, pp. 467-470, 25-26

24.	VikramPalodiya, Santosh Kumar, Ajay Kumar, S. K. Raghuwanshi	Dec. 2013	Dispersion Properties of Solid Core Bragg Fiber having an Arbitrary Refractive Index Core Profile for DWDM Applications	In IEEE proceeding International Conference of Microwave and Photonics 2013, Dhanbad
25.	Ajay Kumar, S. K. Raghuwanshi , Santosh Kumar	Dec. 2013.	Analysis of Various Optical Filtering Techniques	In IEEE proceeding International Conference of Microwave and Photonics 2013, Dhanbad
26.	Reena Sharma S. K. Raghuwanshi	Dec. 2013	Matlab simulink based test bed of QW laser for optical communication system	IEEE International conference on microwave and photonics (ICMAP) Dhanbad
27.	DevendraChack , S. K. Raghuwanshi , V. Kumar, NiteshkumarAgrawal	6 to 8 April 2013	Analyzing the Optimum Parameter of an 1×2 MMI Splitter	IEEE, International Conference on Communication Systems and Network Technologies, Gwalior, India
28.	S. K. Raghuwanshi , Santosh Kumar	December 17-19, 2012	Analysis of Multimode interference star coupler having s-bend waveguide	Proceeding of IEEE 5 th International Conference on Computers and Devices for Communication-CODEC 2012, Kolkatta, India
29.	S. K. Raghuwanshi , Santosh Kumar	July 26-28, 2012	Derivation of dispersion equation by using equivalent transmission line method for the case of planar slab optical waveguide structure	Proceeding of IEEE International Conference on Optical Engineering 2012, pp. 109-112, VTU Belgaum, India
30.	Santosh Kumar, S. K. Raghuwanshi	July 26-28, 2012	Analysis of step discontinuities in rectangular MMI coupler by beam propagation method	Proceeding of IEEE International Conference on Optical Engineering 2012, pp. 157-163, July 26-28, 2012, VTU, Belgaum, India
31.	S. K. Raghuwanshi , Ajay Kumar, and Santosh Kumar	May 11-13, 2012	Design and analysis of finite/infinite impulse response optical filter for signal processing	IEEE 2012 International Conference on Communication Systems and Network Technologies (CSNT-2012), pp. 529-533, Rajkot, India
32.	Sanjeev Kumar Raghuwanshi , V. Kumar, DevendraChack Santosh Kumar	May 11-13, 2012	Propagation Study of Y-Junction Optical Splitter using BPM	IEEE 2012 International Conference on Communication Systems and Network Technologies (CSNT-2012), pp. 625-629, Rajkot, India
33.	S. K. Raghuwanshi , Santosh Kumar D. Chack	March 16-18, 2012	Dispersion Study of a Non-uniform Dielectric Planar Slab Optical Waveguide	Proceeding of IEEE Students' Conference on Engineering and Systems (SCES-2012), pp. 68, MNIT Allahabad
34.	Santosh Kumar, S. K. Raghuwanshi	March 16-18, 2012	Derivation of Eigen Value Equation for Multiple Clad/Core Planar Slab Optical Waveguides: A General Approach	Proceeding of IEEE Students' Conference on Engineering and Systems (SCES-2012), pp. 68, MNIT Allahabad
35.	S. K. Raghuwanshi , DevendraChack	Nov. 3-4, 2011.	Dispersion Study of an In-homogenous Dielectric Planar Slab Optical Waveguide	National Seminar on frontiers in Electronics, Communication, Instrumentation and Information Technology (FECIT-2011), pp. 37, paper ID PTS-10, Indian School of Mines Dhanbad,
36.	Santosh Kumar, S. K. Raghuwanshi	Nov. 3-4, 2011	Derivation of Eigen Value equation for Double Clad/Double Core Planar Slab Optical Waveguides	National Seminar on frontiers in Electronics, Communication, Instrumentation and Information Technology (FECIT-2011), pp. 38, paper ID

				PTS-11, Indian School of Mines Dhanbad
37.	S. K. Raghuwanshi , V. Kumar, R.R. Pandey	18 and 19 March 2011.	Performance study of Exponential varying Refractive index Planar Slab Optical waveguide	Proceeding of IEEE International conference on computer, communication & Electrical technology (ICCCET), Tirunelveli,Tamilnadu, India, pp. 16-20
38.	R. R. Pandey, S. K. Raghuwanshi	June 14- 16, 2011	Analysis of linear tapered dielectric optical waveguides using matrix approach	13 th International Conference of International Academy of Physical Sciences (CONIAPS- XIII), Dehradun, India
39.	S. K. Raghuwanshi , V. Kumar, R. R. Pandey	June 14- 16, 2011	Dispersion study of cylindrical dielectric waveguide without computing $\frac{d^2\beta}{dk^2}$ numerically	13 th International Conference of International Academy of Physical Sciences (CONIAPS- XIII), June 14-16, 2011, Dehradun, India
40.	S. K. Raghuwanshi , V. Kumar, D. Chack	2011	Analysis of Step Discontinuity in a Single Mode Planar Slab Taper Optical Waveguide	Proceeding of IEEE International Conference on Computational Intelligence and Communication Networks (CICN-2011), pp. 192-196, Gwalior, India
41.	S. K. Raghuwanshi , V. Kumar	29-30 Nov. 2010	Analysis of Double Clad Single- Mode Step-Index fibers having depressed versus raised inner Cladding	International conf. in comm., comput. control and nano-tech. (ICN 2010), Bhalki India.
42.	S. K. Raghuwanshi	29-30 Nov. 2010	Ray paths in an Elliptic parabolic refractive index profile fiber	International conf. in comm., compute. Control. and nano- tech. (ICN 2010), Bhalki India
43.	S. K. Raghuwanshi , A. Tiwari R. Pandey	22-24 Dec. 2010	Study of Mode Cut-off Condition of Single Mode Planar Slab Optical Waveguide	12 th International Conference of International Academy of Physical Sciences (CONIAPS XII), Jaipur
44.	S. K. Raghuwanshi	6th to 7th March 2009	Analysis of Integrated Optical Micro- Ring Resonator	National conference on Information and Communication Technology, organized by Mukesh Patel School of Technology Management and Engineering, NMIMS University, NCICT – 6th to 7th March 2009, Mumbai
45.	S. K. Raghuwanshi	6th to 7th March 2009	Basics of MEMS/MOEMS Technology	National conference on Information and Communication Technology, organized by Mukesh Patel School of Technology Management and Engineering, NMIMS University, NCICT – 6th to 7th March 2009, Mumbai.
46.	S. K. Raghuwashi	3-5, Dec. 2009	Study of 1-D photonic crystal fiber by using plane wave expansion method	National workshop on Quantum confined systems and nano- scale devices, Kerala.
47.	S. K. Raghuwanshi	2009	Low dispersion due to square law medium profile	Annual University Magazine of Sir PadampatSinghania university

48.	S.K.Raghuwanshi S. Talabattula	3-5 Jan. 2008	Multilayer thin-film filters	Proceedings of second Interantional Conference on Resource Utilization & Intelligent Systems (INCRUIS-2008), pp. 699-703, 3-5 Jan. 2008, Perundurai, Erode, T.N., India.
49.	S.K.Raghuwanshi S. Talabattula,	3-5 Jan. 2008	Asymmetric group-velocity dispersion due to pulse walk-off effect in wide band WDM Raman amplification systems	Proceedings of second Interantional Conference on Resource Utilization & Intelligent Systems (INCRUIS-2008), pp. 465-469, 3-5 Jan. 2008, Perundurai, Erode, T.N., India.
50.	S. K. Raghuwanshi, S. Talabattula	27-30 May 2008	A numerical technique to generate data points for electric field lines and equipotential lines for arbitrary configuration of point sources	MCDES-IISc, Centenary Conference on Managing Complexity in a Distributed World, Paper I.D.-30
51.	S.K.Raghuwanshi, Ra ghunath K., S. Talabattula	1-3 Feb. 2007	Fiber Bragg grating technology: Applications for telecommunication engineering as a WDM component	International conference on Advances in Electronics and Communications (icon ADELCO-2007), Kovilpatti, Tamilnadu, pp. 179-188
52.	S. K Raghuwanshi S. Talabattula	1-3 March 2007	Contra-directional/co-directional coupling between modes in a fiber Bragg grating	Proceedings of XXXII Optical Society of India (OSI) Symposium on Contemporary Optics & Applications, pp. 41-42, Vadodara, India
53.	S. K Raghuwanshi S. Talabattula	1-3 March 2007	Degenerate/non-degenerate modes coupling in an optical waveguide	Proceedings of XXXII Optical Society of India (OSI) Symposium on Contemporary Optics & Applications, pp. 50-51, Vadodara, India.
54.	S.K.Raghuwanshi, M. Mittal S. Talabattula	9-11 April 2007	Dispersion in an uniform long period grating: Transmission spectra	National Conference on Recent Trends in Optoelectronics & Laser technology NCOL-2007, pp. 50-51, Thiruvananthapuram, Kerala, India
55.	S.K.Raghuwanshi S. Talabattula	17-20 Dec. 2007	Electromagnetic analysis of the planar slab waveguide	International conference on Microwaves & Optoelectronics (ICMO-2007), pp. 3-11, Aurangabad, India
56.	S. K. Raghuwanshi S. Talabattula	17-20 Dec. 2007	Mode identification in step-index circular waveguides	International conference on Microwaves & Optoelectronics (ICMO-2007), pp. 67-74, Aurangabad, India.
57.	S.K.Raghuwanshi S. Talabattula,	6 April 2006	Fiber design to achieve flat gain amplification for fiber Raman amplifier	Proc. of 3 rd National conference on Advances in Electronic Communications (ADELCO-2006), pp. 55-60, Kovilpatti, Tamilnadu, India.

58.	S.K.Raghuwanshi, S. Talabattula	7-8 Sept. 2006	Low dispersion Management by using Graded index waveguide	Proc. of National conference on Recent Trends in Electrical, Electronics, Computer Science & IT Engineering (TECHNO FLASH-06), pp. 1, 7-8 Sept. 2006, Chennai, India.
59.	S.K.Raghuwanshi, S. Talabattula	6-8 Oct. 2006	Analysis of square shape planar slab waveguide with periodic rectangular strip of dielectric layers for dispersion management in optical fiber communication links	National conference on Recent Advancements in Microwave Techniques & Applications, pp. 355-359, 6-8 Oct. 2006, Jaipur, India.
60.	S.K.Raghuwanshi, S. Talabattula A. Selvarajan	6-8 Oct. 2006	Analysis of hexagonal shape holey optical fiber having arbitrary refractive index profile by using 2-D FEM method	National conference on Recent Advancements in Microwave Techniques & Applications, pp. 140-145, Jaipur, India
61.	S.K.Raghuwanshi S. Talabattula	Dec. 18- 20, 2006	FDM method to solve nonlinear Schrodinger equation: A Solitions formation	3 rd International conference on Computers and Devices for Communication CODEC-2006, University of Calcutta, pp. 516-520, India.
62.	S.K.Raghuwanshi S. Talabattula	Dec. 18- 20, 2006	Computational method for analysis of 3 D rectangular waveguide: A 2 D finite element approach	3 rd International conference on Computers and Devices for Communication CODEC-2006, University of Calcutta, pp. 497-500, India
63.	S.K.Raghuwanshi, P. K. Pattnaik, B. Bathula, Bh. Vijayaaditya, S. TalabattulaPapannared dy R	2006	Crank-Nicholson scheme for analysis of pulse propagation problem through a nonlinear Directional Coupler	Proceedings of Eighth International conference on Optoelectronics, Fiber Optics and Photonics-2006, UH, India NLO 52.
64.	S. K .Raghuwanshi, P. Jain S. Talabattula	12-15 Dec. 2005	Pulse distortion due to Pulse walk-off in wide band WDM Raman amplification systems	Proceedings of International conference on Optics & Optoelectronics (ICOL-2005), IRDE, Dehradun, India (PP-FIO-47).
65.	P. Jain, S.K.Raghuwanshi S. Talabattula	12-15 Dec. 2005	A novel approach to analyze Z-varying integrated optical waveguides	Proceedings of International conference on Optics & Optoelectronics, IRDE, Dehradun, India (PP-FIO-22).
66.	S. K. Raghuwanshi	Dec. 2004	An algorithm to design the optimal flat gain fiber Raman amplifier	National Conf. on Microwave and Optoelectronics (NCMO), Aurangabad