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| Book Name: | [Science and Technology: Developments and Applications](https://www.bookpi.org/bookstore/product/science-and-technology-developments-and-applications-vol-1/) |
| Manuscript Number: | **Ms\_BPR\_4429** |
| Title of the Manuscript:  | **Piezo/fibre-crystal-photonic laser modulator** |
| Type of the Article | **BOOK CHAPTER** |

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| PART 1: Comments |
|  | Reviewer’s comment**Artificial Intelligence (AI) generated or assisted review comments are strictly prohibited during peer review.** | Author’s Feedback*(Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)* |
| **Please write a few sentences regarding the importance of this manuscript for the scientific community. A minimumof 3-4 sentences may be required for this part.** | 1. The low sensitivity of PM-PCF to temperature changes ensures reliable performance in varying environmental conditions, making it suitable for practical applications.
2. The system supports both positive and negative linear laser modulation, providing adaptability for diverse optical communication and sensing needs.
3. The piezoelectric transducer's resonance frequency enables rapid and efficient modulation, achieving high-speed optical signal control with a bandwidth of 50 kHz to 55 kHz.
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| **Is the title of the article suitable?****(If not please suggest an alternative title)** | **Yes** |  |
| Is the abstract of the article comprehensive? Do you suggest the addition (or deletion) of some points in this section? Please write your suggestions here. | **Revision**  |  |
| **Is the manuscript scientifically, correct? Please write here.** | **But comparison is required** |  |
| **Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.****-** | **Modification required** |  |
| Is the language/English quality of the article suitable for scholarly communications? | Ok  |  |
| Optional/Generalcomments | Compare your work in tabular form and indicate your work is better than this work:1[Optimization of microstructred fiber’s mode distribution for high speed data transmission](https://scholar.google.com/citations?view_op=view_citation&hl=en&user=SSjCMpwAAAAJ&sortby=pubdate&citation_for_view=SSjCMpwAAAAJ:mlAyqtXpCwEC)S Misra, I Bala, K Swain, R Satpathy, G palai, CS MishraJournal of Optics, 1-112. [Realization of an efficient long-haul optical link using compensating fiber via dispersion mitigation](https://scholar.google.com/citations?view_op=view_citation&hl=en&user=SSjCMpwAAAAJ&sortby=pubdate&citation_for_view=SSjCMpwAAAAJ:yFnVuubrUp4C)P Mishra, B Prasad, G Palai, P Sarkar, T PandaJournal of Optics, 1-113.[Realization of attenuator and amplifier using photonic crystal fiber](https://scholar.google.com/citations?view_op=view_citation&hl=en&user=SSjCMpwAAAAJ&cstart=20&pagesize=80&sortby=pubdate&citation_for_view=SSjCMpwAAAAJ:AvfA0Oy_GE0C)CS Mishra, R Arunachalam, C Nayak, MR Nayak, SK Sahu, G PalaiSilicon, 1-64.[Concentration Measurement of Urea in Blood using Photonic Crystal Fiber](https://scholar.google.com/citations?view_op=view_citation&hl=en&user=SSjCMpwAAAAJ&cstart=20&pagesize=80&sortby=pubdate&citation_for_view=SSjCMpwAAAAJ:-FonjvnnhkoC)BA Kumar, SK Sahu, G PalaiAdvances in Intelligent Computing and Communication: Proceedings of ICAC … |  |

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| **PART 2:**  |
|  | **Reviewer’s comment** | **Author’s comment** *(if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)* |
| **Are there ethical issues in this manuscript?**  | *(If yes, Kindly please write down the ethical issues here in details)* |  |

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| **Reviewer Details:** |
| Name: | **Gopinath Palai** |
| Department, University & Country | **Sri Sri University, India** |