* ***Peer Reviewed Journal Articles***

1. **Rathin K. Joshi**, Varun Kumar, Megha Agrawal, Avinash Rao, Latika Mohan, M. Jayachandra, and Hardik J. Pandya. "***Spatiotemporal analysis of interictal EEG for automated seizure detection and classification*.**" Biomedical Signal Processing and Control 79 (2023): 104086.

[(Link to the paper)](https://www.sciencedirect.com/science/article/abs/pii/S174680942200550X)

1. **Rathin K. Joshi**, Manu K S, Hari R S, Mahesh Jayachandra, Manjunath Dandi, Hardik J. Pandya “***Automated ABR and MMN Extraction using Customized Headband for Hearing Screening.***” Biomedical Signal Processing and Control 94 (2024): 106264.

[(Link to the paper)](https://www.sciencedirect.com/science/article/abs/pii/S1746809424003227)

1. Suman Chatterjee, **Rathin K. Joshi**, Tushar Sakorikar, Bhagaban Behera, Nitu Bhaskar, Shabari Girishan K V, Mahesh Jayachandra, and Hardik J. Pandya. “***Design and fabrication of a microelectrode array for studying epileptiform discharges from rodents*.**” Biomedical Microdevices 25, no. 3 (2023): 31.

[(Link to the paper)](https://link.springer.com/article/10.1007/s10544-023-00672-0)

1. Suman Chatterjee, Tushar Sakorikar, Arjun Bs, **Rathin K. Joshi**, Abhay Sikaria, Mahesh Jayachandra, Vikas V, and Hardik J. Pandya. "***A flexible implantable microelectrode array for recording electrocorticography signals from rodents*.**" Biomedical Microdevices 24, no. 4 (2022): 31.

[(Link to the paper)](https://link.springer.com/article/10.1007/s10544-022-00632-0)

1. Bhagaban Behera, **Rathin K. Joshi**, GK Anil Vishnu, Sanjay Bhalerao, and Hardik J. Pandya. "***Electronic nose: A non-invasive technology for breath analysis of diabetes and lung cancer patients*.**" Journal of Breath Research 13, no. 2 (2019): 024001.

([Link to the Paper](https://doi.org/10.1088/1752-7163/aafc77))

* ***Conferences/Symposiums Publications (In Reverse Chronological Order):***

1. **Rathin K. Joshi**, Hardik J. Pandya ***“Design and Development of a Bimodal, Auditory event-related Potential Extractor System for Neonatal Hearing Screening.”*** In EECS Research Student Symposium, IISc, 2021. [(Link To the Book of Abstracts)](https://eecs.iisc.ac.in/EECS2024/resources/BookofAbstracts_final.pdf)
2. Suman Chatterjee, **Rathin K. Joshi**, Shabari Girishan K V, and Hardik J. Pandya “***Flexible Microelectrode Array for Chronic Electrocorticography Recording under Different Neurophysiological Conditions.***” In 2023 IEEE EMBS Conference on Neural Engineering (NER 2023). ([Link to The Paper](https://ieeexplore.ieee.org/abstract/document/10123820))
3. **Rathin K. Joshi**, K. S. Manu, R. S. Hari, Mahesh Jayachandra, and Hardik J. Pandya. "***Design, Development, and Validation of a Portable Visual P300 Event-Related Potential Extraction System.***" In 2022 IEEE Biomedical Circuits and Systems Conference (BioCAS), pp. 409-413. IEEE, 2022. ([Link to the Paper](https://doi.org/10.1109/BioCAS54905.2022.9948657))
4. **Rathin K. Joshi**, Hema Hariharan, K. Srinivasan, A. Tak, S. Kubakkadi, Hardik J. Pandya, and Mahesh Jayachandra “***Teaching Cognitive Neuroscience: Neuro-Instrumentation, an Indian perspective.***” Society for Neuroscience (SfN, 2022). ([Link to the Abstract Page](https://www.abstractsonline.com/pp8/#!/10619/presentation/75128))
5. Hema Hariharan, A. Tak, **Rathin. K. Joshi**, Bhargavi Budhial, Suzzane Thomas, K. Srinivas, Hardik J. Pandya, and Mahesh Jayachandra. “***Dynamic variations in P300 Attention and Working Memory components in Males and Females, in an Indian cohort.***” Society for Neuroscience (SfN, 2022). ([Link to the Abstract Page](https://www.abstractsonline.com/pp8/#!/10619/presentation/64508))
6. **Rathin K. Joshi** and Hardik J. Pandya, “***Design and Development of a Headband for Cortical Response Extraction***,” EECS Research Student Symposium, IISc, 2021. ([(Link To the Book of Abstracts)](https://eecs.iisc.ac.in/EECS2021/resources/EECS_2021_BookofAbstracts.pdf))
7. **Rathin K. Joshi**, Rutu Parekh, and Yash Agrawal. "***Design and optimization of single electron transistor based 4-bit arithmetic and logic unit at room temperature operation.***" In 2017 IEEE International Symposium on Nanoelectronic and Information Systems (iNIS), pp. 34-39. IEEE, 2017. ([Link to the Paper](https://doi.org/10.1109/iNIS.2017.17))
8. Sreenivas Bhaskara, Shabari Girishan K V, Saravanan M., **Rathin K. Joshi**, Harik J. Pandya. ***“Neural interface for ECoG signal recording in Rat Models”*** Annual Symposium, Centre for Neuroscience, IISc, 2023.