

Sl. No	Year	Paper Title, Author(s), Journal, Volume no., Page no, Year
1	2025	Shekhar A, Mandal S, ‘Z-domain Modeling and Performance Evaluation of Triple Optical Ring Resonator with embedded Bragg Gratings as Optical Filter & Biosensor’ , IEEE Sensors Journal, 25(16), 2025, 30727-30734, DOI 10.1109/JSEN.2025.3584879.
2	2025	Suraj Saha, S Mandal , ‘ π -phase-shift High-Contrast Bragg Grating Embedded Micro-Optical SRR Filter: Zdomain Modelling and Spectral Analysis’, Optic Communications, Elsevier, S0030-4018(25)00881-8, 2025, DOI: https://doi.org/10.1016/j.optcom.2025.132353
3	2025	Shekhar A, Mandal S, ‘Design and Analysis of Modified Double Ring Resonator With Embedded High Contrast Optical Bragg Grating as an Optical Filter and a Biosensor’, IEEE Transactions on Nanotechnology, (24), 330-337, 2025
4	2025	Suraj Saha, S Mandal “High contrast grating embedded multi-bus micro-optical triple ring-resonated temperature sensor design and simulation”, Optik, 327(2025), 172276
5	2025	Shekhar A, Ranjan R, Mandal S ,”Model of double optical ring resonator configuration as a biosensor using FDTD numerical method” , Optical and Quantum Electronics (2025) 57:35 https://doi.org/10.1007/s11082-024-07948-6
6	2025	Shekhar A, Mandal S,” Modeling and z domain analysis of a modified double ring resonator for optical filtering”, Optical and Quantum Electronics, Springer Nature, (2025) 57(315)
7	2025	A Mishra, S Mandal, et al. ‘Non-Linear Control of Interleaved Boost Converter Using Disturbance Observer-Based Approach’, IEEE Access, 23833-23440, 13 (2025)
8	2025	G Mandal, A Kumar, S Mandal “Assessment of metrological characterisation of 30000 kg weighting balance using a novel step up method expandable up to 50000 kg”, MAPAN, Springer, 40(2025), 523-532
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11	2024	Mala A, Mandal S, “Triple-Ring Multibus System as an Optical Filter: Modelling and Performance Analysis”, Brazilian Journal of Physics (2024) 54:154
12	2024	A Mishra, S Mandal , “Comparative study of the Normalised Error Based Control and Traditional Current Mode Control for a sixth Order Boost Converter” , IEEE Access, 102181-102187, 12 (2024)
13	2024	Parimal, S Mandal, “Design of an optical square root evaluator based on a two-bit optical divider circuit using a micro-optical ring resonator (MORR) in the Z-domain.”, Optical and Quantum Electronics, Springer Nature, (2024) 56:493.

14	2024	S Kundu, M Hossain, S Mandal, “Design and analysis of all-optical carry lookahead adder using microring resonator in Z-domain”, Optical Engineering, Opt. Eng. 63(1), 10182 (2024)
15	2023	Anshu Mala, S Mandal, "Modelling and Performance Analysis of Cascaded Asymmetrical Quadruple Micro-Optical Ring Resonator as an Optical Filter", Optical and Quantum Electronics, Springer Nature, (2023), 55 (969)
16	2023	Parimal, S Mandal, “Design of an optical test bench (OTB) for an N-bit optical multiplier, optical convolution, and optical correlation circuit using an optical microring resonator in the Z-domain”, Optical and Quantum Electronics, Springer Nature ,(2023) 55:844.
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42	2018	Deepak Kumar Gope, Uday Kumar, Somnath Chattopadhyaya , Sanjoy Mandal, “Experimental investigation of pug cutter embedded TIG welding of Ti-6Al-4V titanium alloy”, 32(6), 2018, J of Mechanical Science and Technology.
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