# Preecha Yupapin

List of Publications by Year
in descending order



| 131 | 2,405 | 236925 25 | 265206 42 |
|---|---|---|---|
| papers | citations | h-index | g-index |

| 137 | 137 | 137 | 719 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Triâ€core photonic crystal fiber based refractive index dual sensor for salinity and temperature detection. Microwave and Optical Technology Letters, 2019, 61, 847-852. | 1.4 | 96 |
| 2 | Distributed Feedback Laser (DFB) for Signal Power Amplitude Level Improvement in Long Spectral Band. Journal of Optical Communications, 2024, 44, s125-s130. | 4.7 | 94 |
| 3 | Average Power Model of Optical Raman Amplifiers Based on Frequency Spacing and Amplifier Section Stage Optimization. Journal of Optical Communications, 2023, 44, 19-27. | 4.7 | 84 |
| 4 | Analytical Model Analysis of Reflection/Transmission Characteristics of Long-Period Fiber Bragg Grating (LPFBG) by Using Coupled Mode Theory. Journal of Optical Communications, 2021, . | 4.7 | 84 |
| 5 | Spatial Continuous Wave Laser and Spatiotemporal VCSEL for High-Speed Long Haul Optical Wireless Communication Channels. Journal of Optical Communications, 2023, 44, 43-51. | 4.7 | 83 |
| 6 | The Engagement of Hybrid Ultra High Space Division Multiplexing with Maximum Time Division Multiplexing Techniques for High-Speed Single-Mode Fiber Cable Systems. Journal of Optical Communications, 2022, 43, 219-223. | 4.7 | 77 |
| 7 | BaTiO3-Graphene-Affinity Layerâ€“Based Surface Plasmon Resonance (SPR) Biosensor for Pseudomonas Bacterial Detection. Plasmonics, 2020, 15, 1221-1229. | 3.4 | 76 |
| 8 | High-Speed Light Sources in High-Speed Optical Passive Local Area Communication Networks. Journal of Optical Communications, 2023, 44, 61-67. | 4.7 | 75 |
| 9 | Mathematical Model Analysis of Dispersion and Loss in Photonic Crystal Fibers. Journal of Optical Communications, 2023, 44, 139-144. | 4.7 | 74 |
| 10 | Nonlinear Effects with Semiconductor Optical Amplifiers. Journal of Optical Communications, 2023, 44, 11-17. | 4.7 | 74 |
| 11 | High-Speed Transmission Circuits Signaling in Optical Communication Systems. Journal of Optical Communications, 2022, . | 4.7 | 73 |
| 12 | Comparative Simulation Study of Multi Stage Hybrid All Optical Fiber Amplifiers in Optical Communications. Journal of Optical Communications, 2021, . | 4.7 | 73 |
| 13 | Technical Specifications of the Submarine Fiber Optic Channel Bandwidth/Capacity in Optical Fiber Transmission Systems. Journal of Optical Communications, 2020, . | 4.7 | 72 |
| 14 | Pump Laser Automatic Signal Control for Erbium-Doped Fiber Amplifier Gain, Noise Figure, and Output Spectral Power. Journal of Optical Communications, 2021, . | 4.7 | 70 |
| 15 | Basic Functions of Fiber Bragg Grating Effects on the Optical Fiber Systems Performance Efficiency. Journal of Optical Communications, 2022, 43, 633-639. | 4.7 | 69 |
| 16 | Interaction between Optical Sources and Optical Modulators for High-Speed Optical Communication Networks. Journal of Optical Communications, 2022, 43, 625-632. | 4.7 | 65 |
| 17 | Effects of Order Super Gaussian Pulses on the Performance of High Data Rate Optical Fiber Channel in the Presence of Self Phase Modulation. Journal of Optical Communications, 2023, 44, 117-123. | 4.7 | 62 |
| 18 | Enhanced Hand-Oriented Activity Recognition Based on Smartwatch Sensor Data Using LSTMs. Symmetry, 2020, 12, 1570. | 2.2 | 60 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Introduction to Photonics: Principles and the Most Recent Applications of Microstructures. Micromachines, 2018, 9, 452. | 2.9 | 54 |
| 20 | Modeling of highly sensitive surface plasmon resonance (SPR) sensor for urine glucose detection. Optical and Quantum Electronics, 2020, 52, 1. | 3.3 | 54 |
| 21 | Micro-Current Source Generated by a WGM of Light Within a Stacked Silicon-Graphene-Au Waveguide. IEEE Photonics Technology Letters, 2017, 29, 1768-1771. | 2.5 | 49 |
| 22 | Analytical and simulation results of a triple micro whispering gallery mode probe system for a 3D blood flow rate sensor. Applied Optics, 2016, 55, 9504. | 2.1 | 45 |
| 23 | ResNet-SE: Channel Attention-Based Deep Residual Network for Complex Activity Recognition Using Wrist-Worn Wearable Sensors. IEEE Access, 2022, 10, 51142-51154. | 4.2 | 44 |
| 24 | Modeling and Analysis of a Microresonating Biosensor for Detection of Salmonella Bacteria in Human Blood. Sensors, 2014, 14, 12885-12899. | 3.8 | 37 |
| 25 | Ultra-High-Sensitive Sensor Based on Surface Plasmon Resonance Structure Having Si and Graphene Layers for the Detection of Chikungunya Virus. Plasmonics, 2022, 17, 1315-1321. | 3.4 | 30 |
| 26 | Microring Switching Control Using Plasmonic Ring Resonator Circuits for Super-Channel Use. Plasmonics, 2019, 14, 1669-1677. | 3.4 | 27 |
| 27 | Design of all-optical universal logic gates using mode-conversion in single silicon microring resonator. Journal of Nanophotonics, 2019, 13, 1. | 1.0 | 24 |
| 28 | Nano force sensing using symmetric double stage micro resonator. Measurement: Journal of the International Measurement Confederation, 2014, 58, 215-220. | 5.0 | 23 |
| 29 | Detection of Salmonella bacterium in drinking water using microring resonator. Artificial Cells, Nanomedicine and Biotechnology, 2016, 44, 315-321. | 2.8 | 23 |
| 30 | Coherent light squeezing states within a modified microring system. Results in Physics, 2018, 9, 211-214. | 4.1 | 21 |
| 31 | LiFi cross-connection node model using whispering gallery mode of light in a microring resonator. Microsystem Technologies, 2018, 24, 4833-4838. | 2.0 | 21 |
| 32 | Microring stereo sensor model using Kerrâ€“Vernier effect for bio-cell sensor and communication. Nano Communication Networks, 2018, 17, 30-35. | 2.9 | 20 |
| 33 | Gold nanoparticle trapping and delivery for therapeutic applications. International Journal of Nanomedicine, 2012, 7, 11. | 6.7 | 18 |
| 34 | Molecular buffer using a PANDA ring resonator for drug delivery use. International Journal of Nanomedicine, 2011, 6, 575. | 6.7 | 17 |
| 35 | Design of Mach-Zehnder interferometer and ring resonator for biochemical sensing. Photonic Sensors, 2015, 5, 12-18. | 5.0 | 16 |
| 36 | Rabi oscillation generation in the microring resonator system with double-series ring resonators. Optoelectronics Letters, 2015, 11, 342-347. | 0.8 | 16 |

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| 37 | Electron driven mobility model by light on the stacked metalâ€“dielectric interfaces. Microwave and Optical Technology Letters, 2017, 59, 1704-1709. | 1.4 | 16 |
| 38 | Theorizing how the brain encodes consciousness based on negentropic entanglement. Journal of Integrative Neuroscience, 2019, 18, 1-10. | 1.7 | 16 |
| 39 | Effectiveness of Taguchi method for the optimization of narrowband optical filters based on grating waveguides. Microsystem Technologies, 2019, 25, 789-795. | 2.0 | 15 |
| 40 | Plasmonic Micro-Antenna Characteristics Using Gold Grating Embedded in a Panda-Ring Circuit. Plasmonics, 2020, 15, 279-285. | 3.4 | 15 |
| 41 | All-optical notch filters for ultra-wideband chaotic communications. European Physical Journal Plus, 2018, 133, 1. | 2.6 | 14 |
| 42 | Ultra-fast electro-optic switching control using a soliton pulse within a modified add-drop multiplexer. Microsystem Technologies, 2018, 24, 3777-3782. | 2.0 | 13 |
| 43 | Electron Cloud Spectroscopy Using Micro-Ring Fabryâ€“Perot Sensor Embedded Gold Grating. IEEE Sensors Journal, 2020, 20, 10564-10571. | 4.7 | 13 |
| 44 | Investigation of As<sub>2</sub>S<sub>3</sub>-borosilicate chalcogenide glass-based dispersion-engineered photonic crystal fibre for broadband supercontinuum generation in the mid-IR region. Journal of Modern Optics, 2020, 67, 920-926. | 1.3 | 13 |
| 45 | Planning a sports training program using Adaptive Particle Swarm Optimization with emphasis on physiological constraints. BMC Research Notes, 2018, 11, 9. | 1.4 | 12 |
| 46 | An elementary optical logic circuit for quantum computing: a review. Optical and Quantum Electronics, 2019, 51, 1. | 3.3 | 12 |
| 47 | Fast and slow light generated by surface plasmon wave and gold grating coupling effects. Indian Journal of Physics, 2018, 92, 789-798. | 1.8 | 11 |
| 48 | Microring Distributed Sensors Using Space-Time Function Control. IEEE Sensors Journal, 2020, 20, 799-805. | 4.7 | 11 |
| 49 | Optical configuration of an Nâ€‰â^¶â€‰2<sup>N</sup> reversible decoder using a LiNbO<sub>3</sub>-based Machâ€“Zehnder interferometer. Applied Optics, 2021, 60, 4544. | 1.8 | 11 |
| 50 | Analytical microring stereo system using coupled mode theory and application. Applied Optics, 2019, 58, 8167. | 1.8 | 11 |
| 51 | Embedded nanomicro syringe on chip for molecular therapy. International Journal of Nanomedicine, 2011, 6, 2925. | 6.7 | 10 |
| 52 | Naked-eye 3D imaging model using the embedded micro-conjugate mirrors within the medical micro-needle device. Microsystem Technologies, 2018, 24, 2695-2699. | 2.0 | 10 |
| 53 | Butterfly-like phase shift: a novel gauge for critical coupling of addâ€“drop resonator. Journal of Theoretical and Applied Physics, 2018, 12, 127-134. | 1.4 | 9 |
| 54 | LiFi up-downlink conversion node model generated by inline successive optical pumping. Microsystem Technologies, 2019, 25, 945-950. | 2.0 | 9 |

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| 55 | Silicon microring resonator waveguide-based graphene photodetector. Microsystem Technologies, 2019, 25, 319-328. | 2.0 | 9 |
| 56 | Electroâ€optic conversion circuit incorporating a fiber optic loop for light fidelity upâ€down link use. Microwave and Optical Technology Letters, 2019, 61, 526-531. | 1.4 | 9 |
| 57 | GHz frequency filtering source using hexagonal metamaterial splitting ring resonators. Microwave and Optical Technology Letters, 2017, 59, 1337-1340. | 1.4 | 8 |
| 58 | Induced mitochondrial membrane potential for modeling solitonic conduction of electrotonic signals. PLoS ONE, 2017, 12, e0183677. | 2.5 | 8 |
| 59 | Plasmonic op-amp circuit model using the inline successive microring pumping technique. Microsystem Technologies, 2018, 24, 3689-3695. | 2.0 | 8 |
| 60 | Ultrafast all-optical ALU operation using a soliton control within the cascaded InGaAsP/InP microring circuits. Microsystem Technologies, 2019, 25, 431-440. | 2.0 | 8 |
| 61 | Microplasma Source Circuit Using Microring Spaceâ€“Time Distortion Control. IEEE Transactions on Plasma Science, 2020, 48, 3600-3605. | 1.3 | 8 |
| 62 | Spin-wave generation using MZI embedded plasmonic antennas for quantum communications. Optical and Quantum Electronics, 2020, 52, 1. | 3.3 | 8 |
| 63 | Proposal for Alzheimer’s diagnosis using molecular buffer and bus network. International Journal of Nanomedicine, 2011, 6, 1209. | 6.7 | 7 |
| 64 | Blood cleaner on-chip design for artificial human kidney manipulation. International Journal of Nanomedicine, 2011, 6, 957. | 6.7 | 7 |
| 65 | Brain sensor and communication model using plasmonic microring antenna network. Optical and Quantum Electronics, 2019, 51, 1. | 3.3 | 7 |
| 66 | On-chip polariton generation using an embedded nanograting microring circuit. Results in Physics, 2018, 10, 913-916. | 4.1 | 6 |
| 67 | Molecular orbitals of delocalized electron clouds in neuronal domains. BioSystems, 2019, 183, 103982. | 2.0 | 6 |
| 68 | Analytical and numerical demonstration of phase characteristics on two solitons under the influence of third-order dispersion. Optical and Quantum Electronics, 2019, 51, 1. | 3.3 | 6 |
| 69 | 3Dâ€quantum interferometer using silicon microringâ€embedded gold grating circuit. Microscopy Research and Technique, 2020, 83, 1217-1224. | 2.2 | 6 |
| 70 | Optimum light transmission via microring resonator under a lossyâ€coupler critical coupling condition. Microwave and Optical Technology Letters, 2021, 63, 653-661. | 1.4 | 6 |
| 71 | Integrating Metamaterial Antenna Node and LiFi for Privacy Preserving Intelligent COVID-19 Hospital Patient Management. Cognitive Computation, 2021, , 1-14. | 5.2 | 6 |
| 72 | Nano-particles for Cosmetic Use: Particle Sizing, Cytotoxicity Test, and Facial Gesture Monitoring Model. Journal of Cosmetology & Trichology, 2016, 2, . | 0.1 | 5 |

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| 73 | In-situ 3D micro-sensor model using embedded plasmonic island for biosensors. Microsystem Technologies, 2018, 24, 3631-3635. | 2.0 | 5 |
| 74 | Characteristics of microring circuit using plasmonic island driven electron mobility. Microsystem Technologies, 2018, 24, 3573-3577. | 2.0 | 5 |
| 75 | Micro-optical probe model using integrated triple microring resonators for vertical depth identification. Microsystem Technologies, 2018, 24, 3513-3519. | 2.0 | 5 |
| 76 | Characteristics of an on-chip polariton successively filtered circuit. Results in Physics, 2018, 11, 410-413. | 4.1 | 5 |
| 77 | Mode-locked self-pumping and squeezing photons model in a nonlinear micro-ring resonator. Optical and Quantum Electronics, 2018, 50, 1. | 3.3 | 5 |
| 78 | Manual control of optical tweezer switching for particle trapping and injection. Micro and Nano Letters, 2018, 13, 911-914. | 1.3 | 5 |
| 79 | Nano-capacitor-like model using light trapping in plasmonic island embedded microring system. Results in Physics, 2018, 10, 727-730. | 4.1 | 5 |
| 80 | Bifurcation behaviors generated by Pandaâ€ring control circuit. Microwave and Optical Technology Letters, 2019, 61, 1783-1787. | 1.4 | 5 |
| 81 | Array waveguide grating model for nanoparticle sensor applications. Microsystem Technologies, 2019, 25, 2259-2265. | 2.0 | 5 |
| 82 | Modeling of a superconducting sensor with microring-embedded gold-island spaceâ€“time control. Journal of Computational Electronics, 2020, 19, 1678-1684. | 2.5 | 5 |
| 83 | Bandenna for RF energy harvesting and flexible electronics. Microsystem Technologies, 2021, 27, 1857-1861. | 2.0 | 5 |
| 84 | Design and modeling of double Panda-microring resonator as multi-band optical filter. Nano Communication Networks, 2021, 29, 100352. | 2.9 | 5 |
| 85 | High-density quantum bits generation using microring plasmonic antenna. Optical and Quantum Electronics, 2020, 52, 1. | 3.3 | 5 |
| 86 | Exploring a reversible NOR from a 4ÂÃ—Â4 modified Fredkin gate and its optical mapping using a LiNbO3-based MZI. Journal of Computational Electronics, 2022, 21, 304-318. | 2.5 | 5 |
| 87 | Multi-access drug delivery network and stability. International Journal of Nanomedicine, 2011, 6, 1757. | 6.7 | 4 |
| 88 | Nerve communication model by bio-cells and optical dipole coupling effects. Artificial Cells, Nanomedicine and Biotechnology, 2013, 41, 368-375. | 2.8 | 4 |
| 89 | A simple humidity sensor utilizing air-gap as sensing part of the Machâ€“Zehnder interferometer. Optical and Quantum Electronics, 2017, 49, 1. | 3.3 | 4 |
| 90 | Dual-wavelength transmission system using double micro-resonator system for EMI healthcare applications. Microsystem Technologies, 2019, 25, 1185-1193. | 2.0 | 4 |

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| 91 | Two-pump optical parametric amplification in the S-band using a tellurite microstructured optical fiber. Indian Journal of Physics, 2019, 93, 101-105. | 1.8 | 4 |
| 92 | Micro-metamaterial antenna characteristics using microring embedded silver bars. Microsystem Technologies, 2020, 26, 3927-3933. | 2.0 | 4 |
| 93 | Fullâ€time slot teleportation using unified spaceâ€time function control. Microwave and Optical Technology Letters, 2020, 62, 2183-2188. | 1.4 | 4 |
| 94 | Realizing THz RFID Using Silicon Chip Space-Time Control Circuit. Silicon, 2021, 13, 3725-3732. | 3.3 | 4 |
| 95 | Molecular network topology and reliability for multipurpose diagnosis. International Journal of Nanomedicine, 2011, 6, 2385. | 6.7 | 3 |
| 96 | Channel resolution enhancement through scalability of nano/micro-scale thickness and width of SU-8 polymer based optical channels using UV lithography. Microsystem Technologies, 2018, 24, 1673-1681. | 2.0 | 3 |
| 97 | Multifunction interferometry using the electron mobility visibility and mean free path relationship. Microscopy Research and Technique, 2018, 81, 872-877. | 2.2 | 3 |
| 98 | Hibernation Model Based on Polariton Successive Filtering. The National Academy of Sciences, India, 2020, 43, 207-211. | 1.3 | 3 |
| 99 | Double Vision Model Using Space-Time Function Control within Silicon Microring System. Silicon, 2020, 12, 2635-2640. | 3.3 | 3 |
| 100 | Electron density transport using microring circuit for dual-mode power transmission. Optical and Quantum Electronics, 2020, 52, 1. | 3.3 | 3 |
| 101 | Realizing unique bifurcation model in a cascaded microring feedback circuit. Optical and Quantum Electronics, 2020, 52, 1. | 3.3 | 3 |
| 102 | Analytical Treatment and Modeling of Integrated Ring Resonator Device by Z-Transform Method for Signals Amplification. Journal of Computational and Theoretical Nanoscience, 2015, 12, 2253-2258. | 0.4 | 2 |
| 103 | Micropropulsion generation model and simulation by WGM acceleration within a <scp>P</scp>anda ring resonator system. Microwave and Optical Technology Letters, 2017, 59, 377-380. | 1.4 | 2 |
| 104 | Multiâ€optical carrier generation using a microring resonator to enhance the number of serviceable channels in radio over free space optic. Microwave and Optical Technology Letters, 2017, 59, 2038-2044. | 1.4 | 2 |
| 105 | Electron Mobility Sensor Scheme-Based on a Machâ€“Zehnder Interferometer Approach. IEEE Photonics Technology Letters, 2018, 30, 887-890. | 2.5 | 2 |
| 106 | Broadband photon squeezing control using microring embedded gold grating for LiFi-quantum link. SN Applied Sciences, 2019, 1, 1. | 2.9 | 2 |
| 107 | Modified duobinary modulation of optical signals generated by siliconâ€based microring resonator. Microwave and Optical Technology Letters, 2019, 61, 1661-1668. | 1.4 | 2 |
| 108 | Electron Cloud Density Generated by Microring-Embedded Nano-grating System. Plasmonics, 2020, 15, 543-549. | 3.4 | 2 |

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| 109 | Electron cloud spin generated by microring spaceâ€time control circuit for 3D quantum printing. Microwave and Optical Technology Letters, 2020, 62, 3702-3708. | 1.4 | 2 |
| 110 | A Theoretical Study on the Influence of Carrier Generation on Drain-Source Current of Graphene Nanoscroll Transistors. Plasmonics, 2019, 14, 1329-1334. | 3.4 | 1 |
| 111 | Mindfulness Model Using Polariton Oscillation in Plasmonic Circuit for Human Performance Management. Axioms, 2020, 9, 76. | 1.9 | 1 |
| 112 | High-Density Wavelength Multiplexing Model for THz-EMI Transmission. Wireless Personal Communications, 2020, 113, 1225-1239. | 2.7 | 1 |
| 113 | Correction to â€œMicroring Distributed Sensors Using Space-Time Function Controlâ€•[Jan 20 799-805]. IEEE Sensors Journal, 2020, 20, 3956-3956. | 4.7 | 1 |
| 114 | Q-switched tunable fiber laser utilizing silver nanoparticles deposited onto PVA film as saturable absorber. Indian Journal of Physics, 2021, 95, 141-145. | 1.8 | 1 |
| 115 | Microring Plasmonic Circuit Characteristics Using Spaceâ€“Time Modulation Control. Plasmonics, 2021, 16, 533-539. | 3.4 | 1 |
| 116 | Temperature Sensing with Fibre Bragg Grating and No-Core Fibre. The National Academy of Sciences, India, 2021, 44, 405-407. | 1.3 | 1 |
| 117 | Ultra-High Capacity FSK Transmission Using Silicon Microring Embedded Gold Grating Circuits. Silicon, 2021, 13, 1295-1301. | 3.3 | 1 |
| 118 | Micro-supercapacitor characteristics using a micro-ring space-time control circuit. Journal of Computational Electronics, 2021, 20, 928-933. | 2.5 | 1 |
| 119 | Distributed MEMS Sensors Using Plasmonic Antenna Array Embedded Sagnac Interferometer. Plasmonics, 0, , 1. | 3.4 | 1 |
| 120 | Highâ€density WGM probes generated by a ChG ring resonator for highâ€density 3D imaging and applications. Microwave and Optical Technology Letters, 2018, 60, 2689-2693. | 1.4 | 0 |
| 121 | Ultrafast chaotic switching and monitoring using plasmonic addâ€drop multiplexer. Microwave and Optical Technology Letters, 2018, 60, 2719-2724. | 1.4 | 0 |
| 122 | A microring conjugate mirror design and simulation for nakedâ€eye 3D imaging application. Microwave and Optical Technology Letters, 2018, 60, 1653-1660. | 1.4 | 0 |
| 123 | On comparison of the temperature sensitivity of SU-8-based triple-arm MZI against straight rib optical waveguides patterned on silicon wafer. Indian Journal of Physics, 2019, 93, 385-391. | 1.8 | 0 |
| 124 | Thermoâ€electroâ€optic energy conversion using plasmonic island embedded silicon microring circuit. Microwave and Optical Technology Letters, 2020, 62, 3407-3411. | 1.4 | 0 |
| 125 | Dual-parameter sensor using low-index polymer-overlaid micro-resonator based on dispersion relation. Applied Physics B: Lasers and Optics, 2020, 126, 1. | 2.2 | 0 |
| 126 | Hall effect sensors using polarized electron cloud spin orientation control. Microscopy Research and Technique, 2021, 84, 563-570. | 2.2 | 0 |

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| 127 | Microring Plasmonic Transducer Circuits for Up-Downstream Communications. Plasmonics, 2021, 16, 123-129. | 3.4 | 0 |
| 128 | Design, Measurements, and Analysis of Enhanced Bandwidth UWB. International Journal of Ambient Computing and Intelligence, 2021, 12, 140-158. | 1.1 | 0 |
| 129 | Plasmonic Antenna Embedded Chalcogenide MZI Circuit for Ultra-high Density Up- and Downlink Transmission. Plasmonics, 2021, 16, 947-955. | 3.4 | 0 |
| 130 | 3D Fringe Pattern Coding and Recognition Using Plasmonic Sensing Circuit. Plasmonics, 0, , 1. | 3.4 | 0 |
| 131 | Optical black hole characteristics using microring spaceâ€time distortion circuit. Microwave and Optical Technology Letters, 2022, 64, 1317-1323. | 1.4 | 0 |