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	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
2	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
3	High-Speed Light Sources in High-Speed Optical Passive Local Area Communication Networks. Journal of Optical Communications, 2023, 44, 61-67.	4.7	75
4	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
5	Mathematical Model Analysis of Dispersion and Loss in Photonic Crystal Fibers. Journal of Optical Communications, 2023, 44, 139-144.	4.7	74
6	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
7	Nonlinear Effects with Semiconductor Optical Amplifiers. Journal of Optical Communications, 2023, 44, 11-17.	4.7	74
8	Interaction between Optical Sources and Optical Modulators for High-Speed Optical Communication Networks. Journal of Optical Communications, 2022, 43, 625-632.	4.7	65
9	High-Speed Transmission Circuits Signaling in Optical Communication Systems. Journal of Optical Communications, 2022, .	4.7	73
10	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
11	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
12	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
13	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
14	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
15	Optical black hole characteristics using microring spaceâ€time distortion circuit. Microwave and Optical Technology Letters, 2022, 64, 1317-1323.	1.4	0
16	Comparative Simulation Study of Multi Stage Hybrid All Optical Fiber Amplifiers in Optical Communications. Journal of Optical Communications, 2021, .	4.7	73
17	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
18	Microring Plasmonic Circuit Characteristics Using Spaceâ€“Time Modulation Control. Plasmonics, 2021, 16, 533-539.	3.4	1

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19	Temperature Sensing with Fibre Bragg Grating and No-Core Fibre. The National Academy of Sciences, India, 2021, 44, 405-407.	1.3	1
20	Ultra-High Capacity FSK Transmission Using Silicon Microring Embedded Gold Grating Circuits. Silicon, 2021, 13, 1295-1301.	3.3	1
21	Hall effect sensors using polarized electron cloud spin orientation control. Microscopy Research and Technique, 2021, 84, 563-570.	2.2	0
22	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
23	Microring Plasmonic Transducer Circuits for Up-Downstream Communications. Plasmonics, 2021, 16, 123-129.	3.4	0
24	Design, Measurements, and Analysis of Enhanced Bandwidth UWB. International Journal of Ambient Computing and Intelligence, 2021, 12, 140-158.	1.1	0
25	Plasmonic Antenna Embedded Chalcogenide MZI Circuit for Ultra-high Density Up- and Downlink Transmission. Plasmonics, 2021, 16, 947-955.	3.4	0
26	Integrating Metamaterial Antenna Node and LiFi for Privacy Preserving Intelligent COVID-19 Hospital Patient Management. Cognitive Computation, 2021, , 1-14.	5.2	6
27	Micro-supercapacitor characteristics using a micro-ring space-time control circuit. Journal of Computational Electronics, 2021, 20, 928-933.	2.5	1
28	Bandenna for RF energy harvesting and flexible electronics. Microsystem Technologies, 2021, 27, 1857-1861.	2.0	5
29	Realizing THz RFID Using Silicon Chip Space-Time Control Circuit. Silicon, 2021, 13, 3725-3732.	3.3	4
30	Optical configuration of an Nâ€‰â^¶â€‰2^N reversible decoder using a LiNbO₃-based Machâ€“Zehnder interferometer. Applied Optics, 2021, 60, 4544.	1.8	11
31	Design and modeling of double Panda-microring resonator as multi-band optical filter. Nano Communication Networks, 2021, 29, 100352.	2.9	5
32	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
33	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
34	Technical Specifications of the Submarine Fiber Optic Channel Bandwidth/Capacity in Optical Fiber Transmission Systems. Journal of Optical Communications, 2020, .	4.7	72
35	Plasmonic Micro-Antenna Characteristics Using Gold Grating Embedded in a Panda-Ring Circuit. Plasmonics, 2020, 15, 279-285.	3.4	15
36	Microring Distributed Sensors Using Space-Time Function Control. IEEE Sensors Journal, 2020, 20, 799-805.	4.7	11

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37	Hibernation Model Based on Polariton Successive Filtering. The National Academy of Sciences, India, 2020, 43, 207-211.	1.3	3
38	Double Vision Model Using Space-Time Function Control within Silicon Microring System. Silicon, 2020, 12, 2635-2640.	3.3	3
39	Electron Cloud Density Generated by Microring-Embedded Nano-grating System. Plasmonics, 2020, 15, 543-549.	3.4	2
40	Enhanced Hand-Oriented Activity Recognition Based on Smartwatch Sensor Data Using LSTMs. Symmetry, 2020, 12, 1570.	2.2	60
41	Electron Cloud Spectroscopy Using Micro-Ring Fabryâ€“Perot Sensor Embedded Gold Grating. IEEE Sensors Journal, 2020, 20, 10564-10571.	4.7	13
42	Investigation of As₂S₃-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
43	Mindfulness Model Using Polariton Oscillation in Plasmonic Circuit for Human Performance Management. Axioms, 2020, 9, 76.	1.9	1
44	Modeling of a superconducting sensor with microring-embedded gold-island spaceâ€“time control. Journal of Computational Electronics, 2020, 19, 1678-1684.	2.5	5
45	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
46	Microplasma Source Circuit Using Microring Spaceâ€“Time Distortion Control. IEEE Transactions on Plasma Science, 2020, 48, 3600-3605.	1.3	8
47	3Dâ€quantum interferometer using silicon microringâ€embedded gold grating circuit. Microscopy Research and Technique, 2020, 83, 1217-1224.	2.2	6
48	High-Density Wavelength Multiplexing Model for THz-EMI Transmission. Wireless Personal Communications, 2020, 113, 1225-1239.	2.7	1
49	Thermoâ€electroâ€optic energy conversion using plasmonic island embedded silicon microring circuit. Microwave and Optical Technology Letters, 2020, 62, 3407-3411.	1.4	0
50	Modeling of highly sensitive surface plasmon resonance (SPR) sensor for urine glucose detection. Optical and Quantum Electronics, 2020, 52, 1.	3.3	54
51	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
52	BaTiO3-Graphene-Affinity Layerâ€“Based Surface Plasmon Resonance (SPR) Biosensor for Pseudomonas Bacterial Detection. Plasmonics, 2020, 15, 1221-1229.	3.4	76
53	Electron density transport using microring circuit for dual-mode power transmission. Optical and Quantum Electronics, 2020, 52, 1.	3.3	3
54	Micro-metamaterial antenna characteristics using microring embedded silver bars. Microsystem Technologies, 2020, 26, 3927-3933.	2.0	4

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55	Fullâ€time slot teleportation using unified spaceâ€time function control. Microwave and Optical Technology Letters, 2020, 62, 2183-2188.	1.4	4
56	Spin-wave generation using MZI embedded plasmonic antennas for quantum communications. Optical and Quantum Electronics, 2020, 52, 1.	3.3	8
57	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
58	Realizing unique bifurcation model in a cascaded microring feedback circuit. Optical and Quantum Electronics, 2020, 52, 1.	3.3	3
59	High-density quantum bits generation using microring plasmonic antenna. Optical and Quantum Electronics, 2020, 52, 1.	3.3	5
60	LiFi up-downlink conversion node model generated by inline successive optical pumping. Microsystem Technologies, 2019, 25, 945-950.	2.0	9
61	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
62	Effectiveness of Taguchi method for the optimization of narrowband optical filters based on grating waveguides. Microsystem Technologies, 2019, 25, 789-795.	2.0	15
63	Silicon microring resonator waveguide-based graphene photodetector. Microsystem Technologies, 2019, 25, 319-328.	2.0	9
64	Dual-wavelength transmission system using double micro-resonator system for EMI healthcare applications. Microsystem Technologies, 2019, 25, 1185-1193.	2.0	4
65	Microring Switching Control Using Plasmonic Ring Resonator Circuits for Super-Channel Use. Plasmonics, 2019, 14, 1669-1677.	3.4	27
66	Brain sensor and communication model using plasmonic microring antenna network. Optical and Quantum Electronics, 2019, 51, 1.	3.3	7
67	Molecular orbitals of delocalized electron clouds in neuronal domains. BioSystems, 2019, 183, 103982.	2.0	6
68	An elementary optical logic circuit for quantum computing: a review. Optical and Quantum Electronics, 2019, 51, 1.	3.3	12
69	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
70	Broadband photon squeezing control using microring embedded gold grating for LiFi-quantum link. SN Applied Sciences, 2019, 1, 1.	2.9	2
71	Modified duobinary modulation of optical signals generated by siliconâ€based microring resonator. Microwave and Optical Technology Letters, 2019, 61, 1661-1668.	1.4	2
72	Bifurcation behaviors generated by Pandaâ€ring control circuit. Microwave and Optical Technology Letters, 2019, 61, 1783-1787.	1.4	5

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73	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
74	Array waveguide grating model for nanoparticle sensor applications. Microsystem Technologies, 2019, 25, 2259-2265.	2.0	5
75	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
76	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
77	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
78	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
79	Design of all-optical universal logic gates using mode-conversion in single silicon microring resonator. Journal of Nanophotonics, 2019, 13, 1.	1.0	24
80	Analytical microring stereo system using coupled mode theory and application. Applied Optics, 2019, 58, 8167.	1.8	11
81	Theorizing how the brain encodes consciousness based on negentropic entanglement. Journal of Integrative Neuroscience, 2019, 18, 1-10.	1.7	16
82	In-situ 3D micro-sensor model using embedded plasmonic island for biosensors. Microsystem Technologies, 2018, 24, 3631-3635.	2.0	5
83	Plasmonic op-amp circuit model using the inline successive microring pumping technique. Microsystem Technologies, 2018, 24, 3689-3695.	2.0	8
84	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
85	Electron Mobility Sensor Scheme-Based on a Machâ€“Zehnder Interferometer Approach. IEEE Photonics Technology Letters, 2018, 30, 887-890.	2.5	2
86	Coherent light squeezing states within a modified microring system. Results in Physics, 2018, 9, 211-214.	4.1	21
87	Characteristics of microring circuit using plasmonic island driven electron mobility. Microsystem Technologies, 2018, 24, 3573-3577.	2.0	5
88	Micro-optical probe model using integrated triple microring resonators for vertical depth identification. Microsystem Technologies, 2018, 24, 3513-3519.	2.0	5
89	Planning a sports training program using Adaptive Particle Swarm Optimization with emphasis on physiological constraints. BMC Research Notes, 2018, 11, 9.	1.4	12
90	LiFi cross-connection node model using whispering gallery mode of light in a microring resonator. Microsystem Technologies, 2018, 24, 4833-4838.	2.0	21

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91	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
92	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
93	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
94	All-optical notch filters for ultra-wideband chaotic communications. European Physical Journal Plus, 2018, 133, 1.	2.6	14
95	Characteristics of an on-chip polariton successively filtered circuit. Results in Physics, 2018, 11, 410-413.	4.1	5
96	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
97	Ultrafast chaotic switching and monitoring using plasmonic addâ€drop multiplexer. Microwave and Optical Technology Letters, 2018, 60, 2719-2724.	1.4	0
98	Introduction to Photonics: Principles and the Most Recent Applications of Microstructures. Micromachines, 2018, 9, 452.	2.9	54
99	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
100	On-chip polariton generation using an embedded nanograting microring circuit. Results in Physics, 2018, 10, 913-916.	4.1	6
101	Mode-locked self-pumping and squeezing photons model in a nonlinear micro-ring resonator. Optical and Quantum Electronics, 2018, 50, 1.	3.3	5
102	Microring stereo sensor model using Kerrâ€“Vernier effect for bio-cell sensor and communication. Nano Communication Networks, 2018, 17, 30-35.	2.9	20
103	Multifunction interferometry using the electron mobility visibility and mean free path relationship. Microscopy Research and Technique, 2018, 81, 872-877.	2.2	3
104	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
105	Manual control of optical tweezer switching for particle trapping and injection. Micro and Nano Letters, 2018, 13, 911-914.	1.3	5
106	Nano-capacitor-like model using light trapping in plasmonic island embedded microring system. Results in Physics, 2018, 10, 727-730.	4.1	5
107	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
108	Electron driven mobility model by light on the stacked metalâ€“dielectric interfaces. Microwave and Optical Technology Letters, 2017, 59, 1704-1709.	1.4	16

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109	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
110	GHz frequency filtering source using hexagonal metamaterial splitting ring resonators. Microwave and Optical Technology Letters, 2017, 59, 1337-1340.	1.4	8
111	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
112	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
113	Induced mitochondrial membrane potential for modeling solitonic conduction of electrotonic signals. PLoS ONE, 2017, 12, e0183677.	2.5	8
114	Nano-particles for Cosmetic Use: Particle Sizing, Cytotoxicity Test, and Facial Gesture Monitoring Model. Journal of Cosmetology & Trichology, 2016, 2, .	0.1	5
115	Detection of Salmonella bacterium in drinking water using microring resonator. Artificial Cells, Nanomedicine and Biotechnology, 2016, 44, 315-321.	2.8	23
116	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
117	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
118	Design of Mach-Zehnder interferometer and ring resonator for biochemical sensing. Photonic Sensors, 2015, 5, 12-18.	5.0	16
119	Rabi oscillation generation in the microring resonator system with double-series ring resonators. Optoelectronics Letters, 2015, 11, 342-347.	0.8	16
120	Modeling and Analysis of a Microresonating Biosensor for Detection of Salmonella Bacteria in Human Blood. Sensors, 2014, 14, 12885-12899.	3.8	37
121	Nano force sensing using symmetric double stage micro resonator. Measurement: Journal of the International Measurement Confederation, 2014, 58, 215-220.	5.0	23
122	Nerve communication model by bio-cells and optical dipole coupling effects. Artificial Cells, Nanomedicine and Biotechnology, 2013, 41, 368-375.	2.8	4
123	Gold nanoparticle trapping and delivery for therapeutic applications. International Journal of Nanomedicine, 2012, 7, 11.	6.7	18
124	Molecular buffer using a PANDA ring resonator for drug delivery use. International Journal of Nanomedicine, 2011, 6, 575.	6.7	17
125	Embedded nanomicro syringe on chip for molecular therapy. International Journal of Nanomedicine, 2011, 6, 2925.	6.7	10
126	Proposal for Alzheimer’s diagnosis using molecular buffer and bus network. International Journal of Nanomedicine, 2011, 6, 1209.	6.7	7

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127	Multi-access drug delivery network and stability. International Journal of Nanomedicine, 2011, 6, 1757.	6.7	4
128	Molecular network topology and reliability for multipurpose diagnosis. International Journal of Nanomedicine, 2011, 6, 2385.	6.7	3
129	Blood cleaner on-chip design for artificial human kidney manipulation. International Journal of Nanomedicine, 2011, 6, 957.	6.7	7
130	3D Fringe Pattern Coding and Recognition Using Plasmonic Sensing Circuit. Plasmonics, 0, , 1.	3.4	0
131	Distributed MEMS Sensors Using Plasmonic Antenna Array Embedded Sagnac Interferometer. Plasmonics, 0, , 1.	3.4	1