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Analysis Of A Microring Resonator

The most basic configuration of the microring resonator is shown in the image below. It consists of a ring-shaped waveguide coupled to two optical waveguides. The cavity mode is excited by evanescent coupling between closely spaced optical waveguides.

Ring resonator getting started - Design and initial ...

Pseudospin-orbit coupling of light, exploiting artificially defined photon spins to steer its spatial motion, underlies many intriguing light-matter interaction phenomena and spin-based optical devices. Microring resonators, hosting counter-circulating whispering gallery modes as two pseudospins, are promising candidates for spin-based light control. Here, by applying a gauge-flux biasing ...

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Pseudospin-Orbit Coupling for Chiral Light Routings in ...

Researchers demonstrate a microring cavity with a photonic crystal on its inside edge, which enables a simultaneous high quality factor (1,000,000) and slow light (10 times slower than for ...

High-Q slow light and its localization in a photonic ...

Experimental setup and device engineering. The device is shown in Figure 1a. We realize the down-conversion source as a high quality-factor AlN-microring resonator, which enhances the pump-photon ...

Parametric down-conversion photon-pair source on a ...

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sciences, and just 3121 in the social sciences. A high IF/citation rate says nothing about the quality -- or even, validity -- of the references being cited.

Applied Physics Letters Latest Impact Factor IF 2021-2022 ...

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Measurement | Vol 188, January 2022 | ScienceDirect.com by ...

He has made original contributions such as developing a microring resonator that allows multi-carrier generation to be applied to all Optical Orthogonal Frequency Division Multiplexing (OFDM) signal and Multiple Input and Multiple Output (...)

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Because in the linear regime the system is reciprocal, both the clockwise (CW) and counterclockwise (CCW) modes in

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each microring resonator experience gauge fields with opposite signs. This, in turn, makes the overall cavity degenerate; that is, for any frequency supported by the CW modes, there is a corresponding CCW mode.

Topological insulator laser: Theory

Recently, chemical vapor sensors based on microring resonators have been proposed and investigated [38, 103] for detection of various chemicals. The information from the sensor can be obtained in the form of a measurable physical signal that is correlated with the concentration of a certain chemical species (termed an analyte).

Chemical Sensor - an overview | ScienceDirect Topics

Jaramillo-Villegas, Jose A (2018) Silicon Nitride Microring Resonators: Classical and Quantum Applications . Jay Seymour, Cassidy N (2018) Kinematics and Dynamics of the Pamir, Central Asia and Main Ethiopian Rift . Jebakumar,

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Anand Samuel (2018) Multi-Scale Modeling of Particle-Laden Flows

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Silicon microring resonator: Wavelength shift: IR sensor: 20: 37: 26 pg/mm²: Francisella tularensis: dsDNA: DNA template: TwistAmp Basic kit: Silicon microring resonator: Wavelength shift: IR sensor: 60: 37: ... RPA is exploited for laboratory-based analysis, portable analysis in laboratory-in-a-suitcase, analysis at the point-of-need/care with ...

Recombinase polymerase amplification: Basics, applications

...

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The demand for high-speed and highly

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efficient optical communication techniques has been rapidly growing due to the ever-increasing volume of data traffic. As well as the digital coherent communication used for core and metro networks, intensity modulation and direct detection (IM-DD) are still promising schemes in intra/inter data centers thanks to their low latency, high reliability, and ...

Dissipative Kerr soliton microcombs for FEC-free optical ...

Analysis of the optical feedback dynamics in InAs/GaAs quantum dot lasers directly grown on silicon H.

Huang, J. Duan, D. Jung, A. Liu, Z. Zhang, J. Norman, J. E. Bowers, and F. Grillot
Journal of the Optical Society of America
B

John Bowers | Bowers

Laser Physics Letters is an international journal publishing Letters dealing with the fundamental and applied aspects of laser science. Published by IOP

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Laser Physics Letters - IOPscience

(C) Photographs showing the completed 100-mm-diameter wafer and zoom-in of multiple dies, and a microscopic image showing a Si₃N₄ microring resonator with Si/Si₃N₄ interface. The continuous-wave laser output passes through a thermo-optic resistive heater (for optical phase control) and couples into a high-Q Si₃N₄ microring resonator ...

Laser soliton microcombs heterogeneously integrated on silicon

High Q-factor microring resonator using local oxidation of silicon (LOCOS) and adiabatic geometry . Jinan Nijem, Alex Naiman, Roy Zektzer, Christian Frydendahl, Noa Mazurski, and Uriel Levy. JTh3A.77 CLEO: Science and Innovations (CLEO_SI) 2021 View: PDF

CLEO: Science and Innovations 2021 - OSA Publishing

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Using "hybrid" equivalent optical resonator the beam parameters of telescopic resonator with an internal thermal lens such as spot sizes at mirrors S_1, S_2 , waist radii and their locations are derived analytically. The expressions are exact for Gaussian

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