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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 ...

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 ...

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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 ...

This agrees with our theoretical analysis that micro-resonators offer a reduction of ... M. et al. Widely tunable microwave phase shifter based on silicon-on-insulator dual-microring resonator.

Robust, efficient, micrometre-scale phase modulators at ...

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

We demonstrate our technique by an example that involves parity-time (PT) symmetric optical microring resonators with chiral coupling among the internal optical modes of each resonator.

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(PDF) Linear_Algebra_and_Its_Applications_5th

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 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

The angular momentum of photons can be used to encode and transmit information. Cai et al. (p.363) developed

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a method for generating and emitting controllable orbital angular momentum states of light from a reconfigurable and scalable silicon photonic chip. Using micro-ring resonators embedded with angular gratings allowed the imprinting of optical angular momentum on the light propagating in ...

Integrated Compact Optical Vortex Beam Emitters

Electro-optic modulators (EOMs) convert signals from the electrical to the optical domain. They are at the heart of optical communication, microwave signal processing, sensing, and quantum technologies. Next-generation EOMs require high-density integration, low cost, and high performance simultaneously, which are difficult to achieve with established integrated photonics platforms.

Integrated lithium niobate electro-optic modulators: when ...

Recently, chemical vapor sensors based

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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

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 fundamental and applied aspects of laser science. Published by IOP Publishing on behalf of Astro Ltd.

Laser Physics Letters - IOPscience

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

High Q-factor, ultrasensitivity slot microring resonator... Suppression of the magnetic noise response caused by... Anti-aliasing phase reconstruction via a non-uniform... Ultra-wideband RCS reduction based on coupling effects... Abruptly autofocusing of generalized circular Airy... Experimental research on a multi-aperture phase modulation...

Optics Express

Small-Signal Analysis of All-Si Microring

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Electronics | Free Full-Text | Processing–Structure ...

84 Performance analysis of 1-km free-space optical communication system over real atmospheric turbulence channels, *Optical Engineering*, 2017, 8
85 A reconfigurable microwave photonic filter with flexible tunability using a multi-wavelength laser and a multi-channel phase-shifted fiber Bragg grating, *Optics Communications* ...

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