Xin Tu

List of Publications by Year
in descending order

34	404	840776 11	794594 19
papers	citations	h-index	g-index

34	34	34	520
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Silicon Photonic Switch Subsystem With 900 Monolithically Integrated Calibration Photodiodes and 64-Fiber Package. Journal of Lightwave Technology, 2018, 36, 233-238.	4.6	54
2	State of the Art and Perspectives on Silicon Photonic Switches. Micromachines, 2019, 10, 51.	2.9	50
3	Coupling Variation Induced Ultrasensitive Label-Free Biosensing by Using Single Mode Coupled Microcavity Laser. Journal of the American Chemical Society, 2009, 131, 16612-16613.	13.7	46
4	Compact PSR Based on an Asymmetric Bi-level Lateral Taper in an Adiabatic Directional Coupler. Journal of Lightwave Technology, 2016, 34, 985-991.	4.6	26
5	Analysis of Deep Neural Network Models for Inverse Design of Silicon Photonic Grating Coupler. Journal of Lightwave Technology, 2021, 39, 2790-2799.	4.6	26
6	Ultrahigh Q Polymer Microring Resonators for Biosensing Applications. IEEE Photonics Journal, 2019, 11, 1-10.	2.0	22
7	A compact and polarization-insensitive silicon waveguide crossing based on subwavelength grating MMI couplers. Optics Express, 2020, 28, 27268.	3.4	22
8	Three-dimensional visualization and analysis of flowing droplets in microchannels using real-time quantitative phase microscopy. Lab on A Chip, 2021, 21, 75-82.	6.0	14
9	Designs of Compliant Mechanism-Based Force Sensors: A Review. IEEE Sensors Journal, 2022, 22, 8282-8294.	4.7	14
10	A Smartphone-Based Fluorescence Microscope With Hydraulically Driven Optofluidic Lens for Quantification of Glucose. IEEE Sensors Journal, 2021, 21, 1229-1235.	4.7	13
11	The Fusion of Microfluidics and Optics for On-Chip Detection and Characterization of Microalgae. Micromachines, 2021, 12, 1137.	2.9	12
12	Design of an arbitrary ratio optical power splitter based on a discrete differential multiobjective evolutionary algorithm. Applied Optics, 2020, 59, 1780.	1.8	11
13	Optofluidic refractive index sensor based on asymmetric diffraction. Optics Express, 2019, 27, 17809.	3.4	11
14	Optofluidic phase-shifting digital holographic microscopy for quantitative measurement of microfluidic diffusion dynamics. Journal of Applied Physics, 2020, 127, .	2.5	10
15	High-efficiency dual-band-multiplexing three-port grating coupler on 220-nm silicon-on-insulator with 248-nm deep-UV lithography. Optics Letters, 2021, 46, 3308.	3.3	10
16	Should internal mammary lymph node sentinel biopsy be performed in breast cancer: a systematic review and meta-analysis. World Journal of Surgical Oncology, 2019, 17, 135.	1.9	9
17	An Erbium-Doped Fiber Whispering-Gallery-Mode Microcavity Laser. IEEE Photonics Technology Letters, 2019, 31, 1650-1653.	2.5	9
18	Design of highly sensitive interferometric sensors based on subwavelength grating waveguides operating at the dispersion turning point. Journal of the Optical Society of America B: Optical Physics, 2021, 38, 2680.	2.1	7

#	Article	IF	Citations
19	Three-Port Dual-Wavelength-Band Grating Coupler for WDM-PON Applications. IEEE Photonics Technology Letters, 2021, 33, 159-162.	2.5	6
20	Underwater Acoustic Wave Detection Based on Packaged Optical Microbubble Resonator. Journal of Lightwave Technology, 2022, 40, 6272-6279.	4.6	6
21	Effects of fabrication deviations and fiber misalignments on a fork-shape edge coupler based on subwavelength gratings. Optics Communications, 2021, 482, 126562.	2.1	5
22	Optofluidic light routing via analytically configuring streamlines of microflow. Microfluidics and Nanofluidics, 2019, 23, 1.	2.2	4
23	Ultra Low Loss Waveguide Transitions for Reticle-Scale Silicon Nanophotonic Routing. IEEE Photonics Technology Letters, 2017, 29, 2099-2102.	2.5	3
24	Dual-Wavelength-Band Grating Coupler on 220-nm Silicon-on-Insulator With High Numerical Aperture Fiber Placed Perfectly Vertically. Journal of Lightwave Technology, 2021, 39, 5902-5909.	4.6	3
25	Kerr Frequency Comb Generation in Microsphere Resonators With Normal Dispersion. Journal of Lightwave Technology, 2022, 40, 1092-1097.	4.6	3
26	Growth Characteristic Analysis of Haematococcus pluvialis in a Microfluidic Chip Using Digital in-Line Holographic Flow Cytometry. Analytical Chemistry, 2022, 94, 5769-5775.	6.5	3
27	Design of an on-chip sensor operating near the dispersion turning point with ultrahigh sensitivity. Journal of the Optical Society of America B: Optical Physics, 2021, 38, 2786.	2.1	2
28	High-Performance Vertical Interlayer Coupler for Multilayer Silicon Nitride-on-Silicon Photonic Platform. , 2019, , .		1
29	Cloaking object on an optofluidic chip: its theory and demonstration. Optics Express, 2020, 28, 18283.	3.4	1
30	Chemical reaction monitoring using tunable optofluidic Y-branch waveguides developed with counter-flow. Microfluidics and Nanofluidics, 2022, 26, 1.	2.2	1
31	A Compact Adiabatic Silicon Photonic Edge Coupler Based on Silicon Nitride/Silicon Trident Structure. , 2019, , .		0
32	Polarization-insensitive Waveguide Crossings Based on SWGs-assisted MMI. , 2019, , .		0
33	Optimizing two-dimensional polarization-diversity metagrating couplers for silicon photonics. Journal of the Optical Society of America B: Optical Physics, 2022, 39, 1256.	2.1	0
34	3-D Visualization of Magnetic Field Using In-Line Holographic Microscopy for Micro-Magnetofluidic Applications. IEEE Sensors Journal, 2022, 22, 12700-12707.	4.7	0