

Paul Muellner

List of Publications by Year in descending order

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28
papers

331
citations

1039406

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887659

17
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28
all docs

28
docs citations

28
times ranked

478
citing authors

#	ARTICLE	IF	CITATIONS
1	Nonlinearity of optimized silicon photonic slot waveguides. <i>Optics Express</i> , 2009, 17, 9282.	1.7	74
2	CMOS-compatible Si ₃ N ₄ Waveguides for Optical Biosensing. <i>Procedia Engineering</i> , 2015, 120, 578-581.	1.2	42
3	Monitoring Dynamic Interactions of Tumor Cells with Tissue and Immune Cells in a Lab-on-a-Chip. <i>Analytical Chemistry</i> , 2013, 85, 11471-11478.	3.2	39
4	Toward optical coherence tomography on a chip: in vivo three-dimensional human retinal imaging using photonic integrated circuit-based arrayed waveguide gratings. <i>Light: Science and Applications</i> , 2021, 10, 6.	7.7	37
5	Human IgG detection in serum on polymer based Mach-Zehnder interferometric biosensors. <i>Journal of Biophotonics</i> , 2016, 9, 218-223.	1.1	18
6	Streptavidin binding as a model to characterize thiol-ene chemistry-based polyamine surfaces for reversible photonic protein biosensing. <i>Chemical Communications</i> , 2014, 50, 2424.	2.2	15
7	Local functionalization of CMOS-compatible Si ₃ N ₄ Mach-Zehnder interferometers with printable functional polymers. <i>Sensors and Actuators B: Chemical</i> , 2016, 236, 1061-1068.	4.0	15
8	Broadband SiN asymmetric directional coupler for 840 nm operation. <i>OSA Continuum</i> , 2018, 1, 1324.	1.8	13
9	Waveguide Mach-Zehnder biosensor with laser diode pumped integrated single-mode silicon nitride organic hybrid solid-state laser. <i>Biosensors and Bioelectronics</i> , 2022, 197, 113816.	5.3	11
10	Monolithically Integrated, CMOS-Compatible SiN Photonics for Sensing Applications. <i>Proceedings (mdpi)</i> , 2018, 2, .	0.2	10
11	Lateral leakage in symmetric SOI rib-type slot waveguides. <i>Optics Express</i> , 2008, 16, 287.	1.7	9
12	Surface Modification of Integrated Optical MZI Sensor Arrays Using Inkjet Printing Technology. <i>Procedia Engineering</i> , 2016, 168, 337-340.	1.2	9
13	Silicon-nitride waveguide-based integrated photonic circuits for medical diagnostic and other sensing applications. , 2019, , .		8
14	Multi-channel swept source optical coherence tomography concept based on photonic integrated circuits. <i>Optics Express</i> , 2020, 28, 32468.	1.7	8
15	Broadband low loss and ultra-low crosstalk waveguide crossings based on a multimode interferometer for 840 nm operation. <i>OSA Continuum</i> , 2020, 3, 334.	1.8	8
16	Design of a Photonic Crystal Defect Waveguide Biosensor Operating in Aqueous Solutions at 1.34 μm . <i>Proceedings (mdpi)</i> , 2018, 2, 1026.	0.2	4
17	In vivo human retinal swept source optical coherence tomography and angiography at 830 nm with a CMOS compatible photonic integrated circuit. <i>Scientific Reports</i> , 2021, 11, 21052.	1.6	3
18	Design of silicon and polymer photonic waveguide structures for sensing applications. , 2009, , .		2

#	ARTICLE	IF	CITATIONS
19	CMOS-compatible silicon nitride waveguide photonic building blocks and their application for optical coherence tomography and other sensing applications. , 2020, , .		2
20	Nonlinearity of optimized horizontal slot waveguides. , 2009, , .		1
21	REAP: revealing drug tolerant persister cells in cancer using contrast enhanced optical coherence and photoacoustic tomography. JPhys Photonics, 2021, 3, 021001.	2.2	1
22	PECVD silicon nitride optical waveguide devices for sensing applications in the visible and $<1\hat{\text{A}}\mu\text{m}$ near infrared wavelength region. , 2019, , .		1
23	Spectral domain and swept source optical coherence tomography on a photonic integrated circuit at 840nm for ophthalmic application. , 2019, , .		1
24	Lateral confinement in horizontal SOI slot waveguide structures. Proceedings of SPIE, 2008, , .	0.8	0
25	Integrated optical waveguide and nanoparticle based label-free molecular biosensing concepts. , 2014, , .		0
26	Preparation of Mach-Zehnder interferometric photonic biosensors by inkjet printing technology. , 2017, , .		0
27	Compact Quantum-Optic Photon-Pair Engine 3D-Integrated on BiCMOS Electronics. , 2018, , .		0
28	PECVD Silicon Nitride Photonic Integrated Circuits and Key Building Blocks for Sensing Applications. , 2020, , .		0