Hans B SohlstrÃ¶m

List of Publications by Year
in descending order

35 papers	1,392 citations	758635 12 h-index	642321 23 g-index
35 all docs	35 docs citations	35 times ranked	1470 citing authors

#	Article	IF	Citations
1	Carbon dioxide absorption spectroscopy with a mid-infrared silicon photonic waveguide. Optics Letters, 2020, 45, 109.	1.7	49
2	On-chip Spectroscopy of CO2 with MIR Waveguides. , 2020, , .		0
3	Carbon Dioxide Sensing with Low-confinement High-sensitivity Mid-IR Silicon Waveguides. , 2019, , .		0
4	A fast uncooled infrared nanobolometer featuring a hybrid-plasmonic cavity for enhanced optical responsivity. , 2017, , .		0
5	A sub-Î¼s thermal time constant electrically driven Pt nanoheater: thermo-dynamic design and frequency characterization. Applied Physics Letters, 2016, 108, .	1.5	5
6	Dye-based photonic sensing systems. Sensors and Actuators B: Chemical, 2016, 228, 649-657.	4.0	15
7	High-frequency sub-wavelength IR thermal source. , 2014, , .		1
8	Wafer-level capping and sealing of heat sensitive substances and liquids with gold gaskets. Sensors and Actuators A: Physical, 2013, 201, 154-163.	2.0	4
9	A single-lithography SOI rib waveguide sensing circuit with apodized low back-reflection surface grating fiber coupling. Proceedings of SPIE, 2012, , .	0.8	0
10	Reducing the temperature sensitivity of SOI waveguide-based biosensors. Proceedings of SPIE, 2012, , .	0.8	1
11	An apodized SOI waveguide-to-fiber surface grating coupler for single lithography silicon photonics. Optics Express, 2011, 19, 3592.	1.7	113
12	Transparent Nanometric Organic Luminescent Films as UVâ€Active Components in Photonic Structures. Advanced Materials, 2011, 23, 761-765.	11.1	33
13	An apodized surface grating coupler enabling the fabrication of silicon photonic nanowire sensor circuits in one lithography step. , 2011, , .		0
14	Real-time label-free biosensing with integrated planar waveguide ring resonators. Proceedings of SPIE, 2010, , .	0.8	5
15	High performance multichannel photonic biochip sensors for future point of care diagnostics: an overview on two EU-sponsored projects. , 2010, , .		0
16	A packaged optical slot-waveguide ring resonator sensor array for multiplex label-free assays in labs-on-chips. Lab on A Chip, 2010, 10, 281-290.	3.1	238
17	On-chip temperature compensation in an integrated slot-waveguide ring resonator refractive index sensor array. Optics Express, 2010, 18, 3226.	1.7	99
18	Microfluidic and transducer technologies for lab on a chip applications. , 2010, 2010, 305-7.		0

#	Article	IF	Citations
19	High coupling and distribution for <inline-formula><math display="inline" overflow="scroll"><mrow><msub><mi mathvariant="normal">Si</mi><mn>3</mn></msub><msub><mi mathvariant="normal">N</mi><mn>4</mn></msub><mo>â^•</mo><mi mathvariant="normal">Si</mi><msub><mi mathvariant="normal">O</mi><mn>2</mn></msub></mrow></math></inline-formula> integrated multichannel single-mode sensing system. Optical Engineering, 2009, 48, 014401.	0.5	18
20	Label-free optical biosensing with slot-waveguides. Optics Letters, 2008, 33, 708.	1.7	201
21	Slot-waveguide biochemical sensor: erratum. Optics Letters, 2008, 33, 2554.	1.7	7
22	High efficiency silicon nitride surface grating couplers. Optics Express, 2008, 16, 328.	1.7	78
23	Vertical multiple-slot waveguide ring resonators in silicon nitride. Optics Express, 2008, 16, 17237.	1.7	47
24	Reconfiguration of microring resonators by liquid adhesion. Applied Physics Letters, 2008, 93, 203114.	1.5	6
25	Slot-waveguide biochemical sensor. Optics Letters, 2007, 32, 3080.	1.7	339
26	Demonstration of slot-waveguide structures on silicon nitride / silicon oxide platform. Optics Express, 2007, 15, 6846.	1.7	91
27	Transmission loss compensation for Faraday effect fibre optic sensors. Sensors and Actuators A: Physical, 1995, 47, 487-490.	2.0	8
28	The performance of a fiber optic magnetic field sensor utilizing a magneto-optical garnet. Fiber and Integrated Optics, 1992, 11, 135-139.	1.7	2
29	<title>Waveguide-based fiber optic magnetic field sensor with directional sensitivity</title>. , 1991, 1511, 142.		3
30	Magneto-optical garnet materials in fiber optic sensor systems for magnetic field sensing. , 1990, , .		14
31	Characterization Of Magnetooptical Thin Films For Sensor Use. Proceedings of SPIE, 1989, 1126, 77.	0.8	1
32	Measurement system for magneto-optic sensor materials. Journal of Physics E: Scientific Instruments, 1984, 17, 885-889.	0.7	5
33	Yig-Sensor Design For Fibre Optical Magnetic Field Measurements. Proceedings of SPIE, 1984, 0514, 333.	0.8	9
34	The Performance of a Fibre Optic Magnetic Field Sensor Utilizing a Magneto-Optical Garnet. , 0, , .		0
35	Highly sensitive lab-on-chip for rapid diagnosis. SPIE Newsroom, 0, , .	0.1	0