

# Hans B Sohlström

## List of Publications by Year in descending order

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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	Slot-waveguide biochemical sensor. Optics Letters, 2007, 32, 3080.	1.7	339
2	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
3	Label-free optical biosensing with slot-waveguides. Optics Letters, 2008, 33, 708.	1.7	201
4	An apodized SOI waveguide-to-fiber surface grating coupler for single lithography silicon photonics. Optics Express, 2011, 19, 3592.	1.7	113
5	On-chip temperature compensation in an integrated slot-waveguide ring resonator refractive index sensor array. Optics Express, 2010, 18, 3226.	1.7	99
6	Demonstration of slot-waveguide structures on silicon nitride / silicon oxide platform. Optics Express, 2007, 15, 6846.	1.7	91
7	High efficiency silicon nitride surface grating couplers. Optics Express, 2008, 16, 328.	1.7	78
8	Carbon dioxide absorption spectroscopy with a mid-infrared silicon photonic waveguide. Optics Letters, 2020, 45, 109.	1.7	49
9	Vertical multiple-slot waveguide ring resonators in silicon nitride. Optics Express, 2008, 16, 17237.	1.7	47
10	Transparent Nanometric Organic Luminescent Films as UV-Active Components in Photonic Structures. Advanced Materials, 2011, 23, 761-765.	11.1	33
11	Light coupling and distribution for $\langle \text{inline-formula} \rangle \langle \text{math display="inline"} \rangle \langle \text{overflow="scroll"} \rangle \langle \text{mrow} \rangle \langle \text{msub} \rangle \langle \text{mi mathvariant="normal"} \rangle \text{Si} \langle \text{mi} \rangle \langle \text{mn} \rangle 3 \langle \text{mn} \rangle \langle \text{msub} \rangle \langle \text{mi mathvariant="normal"} \rangle \text{N} \langle \text{mi} \rangle \langle \text{mn} \rangle 4 \langle \text{mn} \rangle \langle \text{msub} \rangle \langle \text{mo} \rangle \hat{\ast} \langle \text{mo} \rangle \langle \text{mi mathvariant="normal"} \rangle \text{Si} \langle \text{mi} \rangle \langle \text{msub} \rangle \langle \text{mi mathvariant="normal"} \rangle \text{O} \langle \text{mi} \rangle \langle \text{mn} \rangle 2 \langle \text{mn} \rangle \langle \text{msub} \rangle \langle \text{mrow} \rangle \langle \text{math} \rangle \langle \text{inline-formula} \rangle$ integrated multichannel single-mode sensing system. Optical Engineering, 2009, 48, 014401.	0.5	18
12	Dye-based photonic sensing systems. Sensors and Actuators B: Chemical, 2016, 228, 649-657.	4.0	15
13	Magneto-optical garnet materials in fiber optic sensor systems for magnetic field sensing. , 1990, , .		14
14	Yig-Sensor Design For Fibre Optical Magnetic Field Measurements. Proceedings of SPIE, 1984, 0514, 333.	0.8	9
15	Transmission loss compensation for Faraday effect fibre optic sensors. Sensors and Actuators A: Physical, 1995, 47, 487-490.	2.0	8
16	Slot-waveguide biochemical sensor: erratum. Optics Letters, 2008, 33, 2554.	1.7	7
17	Reconfiguration of microring resonators by liquid adhesion. Applied Physics Letters, 2008, 93, 203114.	1.5	6
18	Measurement system for magneto-optic sensor materials. Journal of Physics E: Scientific Instruments, 1984, 17, 885-889.	0.7	5

#	ARTICLE	IF	CITATIONS
19	Real-time label-free biosensing with integrated planar waveguide ring resonators. Proceedings of SPIE, 2010, , .	0.8	5
20	A sub-1/4s thermal time constant electrically driven Pt nanoheater: thermo-dynamic design and frequency characterization. Applied Physics Letters, 2016, 108, .	1.5	5
21	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
22	<title>Waveguide-based fiber optic magnetic field sensor with directional sensitivity</title>. , 1991, 1511, 142.		3
23	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
24	Characterization Of Magneto-optical Thin Films For Sensor Use. Proceedings of SPIE, 1989, 1126, 77.	0.8	1
25	Reducing the temperature sensitivity of SOI waveguide-based biosensors. Proceedings of SPIE, 2012, , .	0.8	1
26	High-frequency sub-wavelength IR thermal source. , 2014, , .		1
27	The Performance of a Fibre Optic Magnetic Field Sensor Utilizing a Magneto-Optical Garnet. , 0, , .		0
28	High performance multichannel photonic biochip sensors for future point of care diagnostics: an overview on two EU-sponsored projects. , 2010, , .		0
29	Microfluidic and transducer technologies for lab on a chip applications. , 2010, 2010, 305-7.		0
30	An apodized surface grating coupler enabling the fabrication of silicon photonic nanowire sensor circuits in one lithography step. , 2011, , .		0
31	A single-lithography SOI rib waveguide sensing circuit with apodized low back-reflection surface grating fiber coupling. Proceedings of SPIE, 2012, , .	0.8	0
32	A fast uncooled infrared nanobolometer featuring a hybrid-plasmonic cavity for enhanced optical responsivity. , 2017, , .		0
33	Highly sensitive lab-on-chip for rapid diagnosis. SPIE Newsroom, 0, , .	0.1	0
34	Carbon Dioxide Sensing with Low-confinement High-sensitivity Mid-IR Silicon Waveguides. , 2019, , .		0
35	On-chip Spectroscopy of CO2 with MIR Waveguides. , 2020, , .		0