

# Roshanak Shafiiha

## List of Publications by Year in descending order

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Version: 2024-02-01

30  
papers

2,425  
citations

516710

16  
h-index

794594

19  
g-index

30  
all docs

30  
docs citations

30  
times ranked

2009  
citing authors

#	ARTICLE	IF	CITATIONS
1	Low $V_{pp}$ , ultralow-energy, compact, high-speed silicon electro-optic modulator. Optics Express, 2009, 17, 22484.	3.4	414
2	Thermally tunable silicon racetrack resonators with ultralow tuning power. Optics Express, 2010, 18, 20298.	3.4	319
3	Wavelength-tunable silicon microring modulator. Optics Express, 2010, 18, 10941.	3.4	201
4	Low power and compact reconfigurable multiplexing devices based on silicon microring resonators. Optics Express, 2010, 18, 9852.	3.4	197
5	High-speed Ge photodetector monolithically integrated with large cross-section silicon-on-insulator waveguide. Applied Physics Letters, 2009, 95, .	3.3	178
6	High speed carrier-depletion modulators with 14V-cm $V_{\pi}$ integrated on 0.25 $\mu$ m silicon-on-insulator waveguides. Optics Express, 2010, 18, 7994.	3.4	153
7	30GHz Ge electro-absorption modulator integrated with 0.3 $\mu$ m silicon-on-insulator waveguide. Optics Express, 2011, 19, 7062.	3.4	135
8	Low loss shallow-ridge silicon waveguides. Optics Express, 2010, 18, 14474.	3.4	134
9	High speed GeSi electro-absorption modulator at 1550 nm wavelength on SOI waveguide. Optics Express, 2012, 20, 22224.	3.4	111
10	36 GHz submicron silicon waveguide germanium photodetector. Optics Express, 2011, 19, 10967.	3.4	105
11	Submilliwatt, ultrafast and broadband electro-optic silicon switches. Optics Express, 2010, 18, 25225.	3.4	94
12	High-speed and compact silicon modulator based on a racetrack resonator with a 1 V drive voltage. Optics Letters, 2010, 35, 3246.	3.3	93
13	Vertical p-i-n germanium photodetector with high external responsivity integrated with large core Si waveguides. Optics Express, 2010, 18, 96.	3.4	80
14	High-Speed GeSi Electroabsorption Modulator on the SOI Waveguide Platform. IEEE Journal of Selected Topics in Quantum Electronics, 2013, 19, 64-73.	2.9	54
15	1x4 reconfigurable demultiplexing filter based on free-standing silicon racetrack resonators. Optics Express, 2010, 18, 24504.	3.4	39
16	Ultralow-Power High-Performance Si Photonic Transmitter. , 2010, , .		23
17	Strong Electro-Absorption in GeSi Epitaxy on Silicon-on-Insulator (SOI). Micromachines, 2012, 3, 345-363.	2.9	19
18	Design and fabrication of 0.3 $\mu$ m silicon-on-insulator waveguide integrated Ge electro-absorption modulator. Optics Express, 2011, 19, 8715.	3.4	16

#	ARTICLE	IF	CITATIONS
19	An all-solid-state, WDM silicon photonic digital link for chip-to-chip communications. Optics Express, 2015, 23, 12808.	3.4	15
20	Terabit/s single chip WDM receiver on the SOI platform. , 2011, , .		9
21	A compact high-performance germanium photodetector integrated on 0.25 $\mu$ m thick silicon-on-insulator waveguide. , 2010, , .		8
22	Experimental studies of the Franz-Keldysh effect in CVD grown GeSi epi on SOI. Proceedings of SPIE, 2011, , .	0.8	5
23	High-speed and broadband electro-optic silicon switch with submilliwatt switching power. , 2011, , .		5
24	Tunable High Speed Silicon Microring Modulator. , 2010, , .		4
25	Low-power photonic components for optical interconnects. , 2011, , .		4
26	Performance of parallel 4 $\times$ 25 Gbs transmitter and receiver fabricated on SOI platform. , 2012, , .		4
27	Broadly tunable high speed silicon micro-ring modulator. , 2010, , .		3
28	High Speed Silicon Carrier-Depletion Mach-Zehnder Modulator with 1.4V-cm V $\pi$ L. , 2010, , .		2
29	High-speed silicon microring modulator with a 1 V drive voltage. , 2010, , .		1
30	High-speed GeSi EA modulator at 1550 nm. , 2012, , .		0