Roman Bruck

List of Publications by Year
in descending order

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14 papers	403 citations	1040056 9 h-index	1199594 12 g-index
14 all docs	14 docs citations	14 times ranked	752 citing authors

#	Article	IF	Citations
1	Plasmonic nanoantennas as integrated coherent perfect absorbers on SOI waveguides for modulators and all-optical switches. Optics Express, 2013, 21, 27652.	3.4	102
2	Ultrafast plasmonics using transparent conductive oxide hybrids in the epsilon-near-zero regime. Applied Physics Letters, 2013, 102, .	3.3	75
3	All-optical spatial light modulator for reconfigurable silicon photonic circuits. Optica, 2016, 3, 396.	9.3	47
4	Device-level characterization of the flow of light in integrated photonic circuits using ultrafast photomodulation spectroscopy. Nature Photonics, 2015, 9, 54-60.	31.4	44
5	An ultrafast reconfigurable nanophotonic switch using wavefront shaping of light in a nonlinear nanomaterial. Light: Science and Applications, 2014, 3, e207-e207.	16.6	41
6	Hybrid Photonâ€“Plasmon Coupling and Ultrafast Control of Nanoantennas on a Silicon Photonic Chip. Nano Letters, 2018, 18, 610-617.	9.1	30
7	Human IgG detection in serum on polymer based Mach-Zehnder interferometric biosensors. Journal of Biophotonics, 2016, 9, 218-223.	2.3	18
8	Multi-step surface functionalization of polyimide based evanescent wave photonic biosensors and application for DNA hybridization by Mach-Zehnder interferometer. Analytica Chimica Acta, 2011, 699, 206-215.	5.4	15
9	Picosecond optically reconfigurable filters exploiting full free spectral range tuning of single ring and Vernier effect resonators. Optics Express, 2015, 23, 12468.	3.4	11
10	Polymer waveguide based biosensor. Proceedings of SPIE, 2008, , .	0.8	8
11	Ultrafast perturbation maps as a quantitative tool for testing of multi-port photonic devices. Nature Communications, 2018, 9, 2246.	12.8	6
12	Ultrafast allâ€optical orderâ€toâ€chaos transition in silicon photonic crystal chips. Laser and Photonics Reviews, 2016, 10, 688-695.	8.7	5
13	Biofilm Growth Monitoring on a-Si:H Based Mach-Zehnder Interferometric Biosensors. , 2012, , .		1
14	Integrated optical waveguide and nanoparticle based label-free molecular biosensing concepts. , 2014, , .		0