

# Marcus S Dahlem

## List of Publications by Year in descending order

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62  
papers

1,409  
citations

586496

16  
h-index

445137

33  
g-index

63  
all docs

63  
docs citations

63  
times ranked

1943  
citing authors

#	ARTICLE	IF	CITATIONS
1	A 2D Pixelated Optical Beam Scanner Controlled by the Laser Wavelength. IEEE Journal of Selected Topics in Quantum Electronics, 2021, 27, 1-12.	1.9	10
2	All-Silicon Photodetectors for Photonic Integrated Circuit Calibration. IEEE Photonics Technology Letters, 2021, 33, 836-839.	1.3	3
3	A review of focused ion beam applications in optical fibers. Nanotechnology, 2021, 32, 472004.	1.3	19
4	Compact MMI-Based AWGs in a Scalable Monolithic Silicon Photonics Platform. IEEE Photonics Journal, 2021, 13, 1-6.	1.0	9
5	Dispersive OPA at Very Near-Infrared Wavelengths. , 2021, , .		1
6	Low-Loss Broadband Silicon TM-Pass Polarizer Based on Periodically Structured Waveguides. IEEE Photonics Technology Letters, 2020, 32, 1029-1032.	1.3	15
7	Focused ion beam milling for prototyping 2D and 3D photonic structures. International Journal of Advanced Manufacturing Technology, 2020, 107, 4469-4480.	1.5	8
8	Dispersive optical phased array circuit for high-resolution pixelated 2D far-field scanning controlled by a single wavelength variable. , 2020, , .		5
9	Fabrication of 2D and 3D Photonic Structures using Focused Ion Beam. , 2020, , .		0
10	Mode Sensitivity Analysis of Subwavelength Grating Slot Waveguides. IEEE Photonics Journal, 2019, 11, 1-10.	1.0	21
11	Embedded parabolic fiber lens for efficient fiber-to-waveguide coupling fabricated by focused ion beam. JPhys Photonics, 2019, 1, 025004.	2.2	8
12	Broadband Silicon TM-Pass Polarizer using a Slot-Assisted Periodic Waveguide. , 2019, , .		3
13	Fabrication of Near-Field Optical Fiber Probes Through Focused Ion Beam. , 2019, , .		3
14	Slotted Subwavelength Grating Waveguides for Compact Optofluidic Sensors. , 2018, , .		1
15	Influence of perfluorinated ionomer in PEDOT:PSS on the rectification and degradation of organic photovoltaic cells. Journal of Materials Chemistry A, 2018, 6, 16012-16028.	5.2	25
16	Compact silicon TE-pass polarizer using adiabatically-bent fully-etched waveguides. Optics Express, 2018, 26, 31850.	1.7	39
17	SOI-based centimeter-scale Mach-Zehnder interferometers for fluid sensing. Proceedings of SPIE, 2017, , .	0.8	1
18	Optical fiber plasmonic lens for near-field focusing fabricated through focused ion beam. , 2017, , .		1

#	ARTICLE	IF	CITATIONS
19	Efficient Fiber-to-Waveguide Edge Coupling Using an Optical Fiber Axicon Lens Fabricated by Focused Ion Beam. IEEE Photonics Journal, 2017, 9, 1-9.	1.0	16
20	Gradient-index optical fiber lens for efficient fiber-to-chip coupling. Optics Express, 2017, 25, 13035.	1.7	11
21	Gradient-index optofluidic waveguide in polydimethylsiloxane. Applied Optics, 2017, 56, 1202.	2.1	5
22	Integrated Gradient-Index Planar Optofluidic Polymer Waveguide. , 2017, , .		0
23	Arbitrary frequency response filter synthesis using generalized cascaded Mach-Zehnder interferometer lattice filters. Proceedings of SPIE, 2016, , .	0.8	0
24	Introduction to Optical Inter- and Intraconnects. , 2016, , 213-220.		0
25	Integrated silicon photonic TE-pass polarizer. , 2016, , .		0
26	Characterization of spray pyrolytically deposited high mobility praseodymium doped CdO thin films. Ceramics International, 2016, 42, 12675-12685.	2.3	53
27	Mapping Morphological and Structural Properties of Lead Halide Perovskites by Scanning Nanofocus XRD. Advanced Functional Materials, 2016, 26, 8221-8230.	7.8	27
28	Silicon photonic time-wavelength pulse interleaver for photonic analog-to-digital converters. Optics Express, 2016, 24, 13489.	1.7	32
29	Enhanced organic solar cells efficiency through electronic and electro-optic effects resulting from charge transfers in polymer hole transport blends. Journal of Materials Chemistry A, 2016, 4, 4252-4263.	5.2	24
30	SOI-based Tunable Microring Resonator using Microelectromechanical Cantilevers. , 2016, , .		0
31	Absence of Structural Impact of Noble Nanoparticles on P3HT:PCBM Blends for Plasmon-Enhanced Bulk-Heterojunction Organic Solar Cells Probed by Synchrotron GI-XRD. Scientific Reports, 2015, 5, 10633.	1.6	13
32	Design Optimization of Single-Layer Antireflective Coating for GaAs <sub>1-x</sub> Si <sub>x</sub> /Si Tandem Cells With $\eta = 0, 0.17, 0.29, \text{ and } 0.37$ . IEEE Journal of Photovoltaics, 2015, 5, 425-431.	1.5	8
33	Environmental sensing with optical fiber sensors processed with focused ion beam and atomic layer deposition. Proceedings of SPIE, 2015, , .	0.8	2
34	Characterization of molybdenum doped indium oxide/aluminum doped zinc oxide thin film stacks for optoelectronic applications. , 2015, , .		1
35	Architectures for evanescent frequency tuning of microring resonators in micro-opto-electro-mechanical SOI platforms. Proceedings of SPIE, 2015, , .	0.8	1
36	Multilayer antireflection coating design for GaAs <sub>0.69</sub> P <sub>0.31</sub> /Si dual-junction solar cells. Solar Energy, 2015, 122, 76-86.	2.9	42

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37	Highly transparent conducting cerium incorporated CdO thin films deposited by a spray pyrolytic technique. RSC Advances, 2015, 5, 102741-102749.	1.7	68
38	Time-Wavelength Pulse Interleaver on a Silicon Platform. , 2015, , .		1
39	Suspended Microring Resonator Sensor using Internal Sub-Wavelength Grating. , 2015, , .		2
40	Phase Response Reconstruction in Ring Resonator Filters. , 2015, , .		1
41	Electrically-actuated cantilever for planar evanescent tuning of microring resonators in SOI platforms. , 2014, , .		4
42	Submicron texturing for broadband light management in thin-film PV. , 2013, , .		1
43	2D directional surface strain mapping through distributed optical fiber sensors. , 2013, , .		0
44	Optofluidic approaches to stationary tracking optical concentrator systems. , 2013, , .		4
45	Photonic ADC: overcoming the bottleneck of electronic jitter. Optics Express, 2012, 20, 4454.	1.7	447
46	GRIN-like dielectric slab lens through effective index engineering. , 2012, , .		1
47	Fabrication of optical fiber gratings through focused ion beam techniques for sensing applications. , 2012, , .		4
48	Electronic-photonic integrated circuits in silicon-on-insulator platforms. , 2011, , .		3
49	Reconfigurable multi-channel second-order silicon microring-resonator filterbanks for on-chip WDM systems. Optics Express, 2011, 19, 306.	1.7	118
50	Device Architecture and Precision Nanofabrication of Microring-Resonator Filter Banks for Integrated Photonic Systems. Journal of Nanoscience and Nanotechnology, 2010, 10, 2044-2052.	0.9	8
51	Ultrafast all-optical modulator with femtojoule absorbed switching energy in silicon-on-insulator. Optics Express, 2010, 18, 22485.	1.7	34
52	Silicon photonic microcavities for optical switching. , 2009, , .		0
53	Dynamical systems in nanophotonics: From energy efficient modulators to light forces and optomechanics. , 2009, , .		0
54	Reconfigurable silicon photonic circuits for telecommunication applications. Proceedings of SPIE, 2008, , .	0.8	13

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55	Accurate frequency alignment in fabrication of high-order microring-resonator filters. Optics Express, 2008, 16, 15958.	1.7	4
56	Hitless-Reconfigurable and Bandwidth-Scalable Silicon Photonic Circuits for Telecom and Interconnect Applications. , 2008, , .		8
57	Supercollimation in photonic crystals composed of silicon rods. Applied Physics Letters, 2008, 93, 131111.	1.5	19
58	Demonstration of an electronic photonic integrated circuit in a commercial scaled bulk CMOS process. , 2008, , .		30
59	Experimental demonstration of loop-coupled microring resonators for optimally sharp optical filters. , 2008, , .		7
60	Supercollimation in photonic crystals composed of nano-scale silicon rods. , 2008, , .		0
61	Strong-Confinement Microring Resonator Photonic Circuits. Conference Proceedings - Lasers and Electro-Optics Society Annual Meeting-LEOS, 2007, , .	0.0	3
62	Achieving centimetre-scale supercollimation in a large-area two-dimensional photonic crystal. Nature Materials, 2006, 5, 93-96.	13.3	222