

Marcus S Dahlem

List of Publications by Year in descending order

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62
papers

1,409
citations

516681

16
h-index

395678

33
g-index

63
all docs

63
docs citations

63
times ranked

1663
citing authors

#	ARTICLE	IF	CITATIONS
1	Photonic ADC: overcoming the bottleneck of electronic jitter. Optics Express, 2012, 20, 4454.	3.4	447
2	Achieving centimetre-scale supercollimation in a large-area two-dimensional photonic crystal. Nature Materials, 2006, 5, 93-96.	27.5	222
3	Reconfigurable multi-channel second-order silicon microring-resonator filterbanks for on-chip WDM systems. Optics Express, 2011, 19, 306.	3.4	118
4	Highly transparent conducting cerium incorporated CdO thin films deposited by a spray pyrolytic technique. RSC Advances, 2015, 5, 102741-102749.	3.6	68
5	Characterization of spray pyrolytically deposited high mobility praseodymium doped CdO thin films. Ceramics International, 2016, 42, 12675-12685.	4.8	53
6	Multilayer antireflection coating design for GaAs _{0.69} P _{0.31} /Si dual-junction solar cells. Solar Energy, 2015, 122, 76-86.	6.1	42
7	Compact silicon TE-pass polarizer using adiabatically-bent fully-etched waveguides. Optics Express, 2018, 26, 31850.	3.4	39
8	Ultrafast all-optical modulator with femtojoule absorbed switching energy in silicon-on-insulator. Optics Express, 2010, 18, 22485.	3.4	34
9	Silicon photonic time-wavelength pulse interleaver for photonic analog-to-digital converters. Optics Express, 2016, 24, 13489.	3.4	32
10	Demonstration of an electronic photonic integrated circuit in a commercial scaled bulk CMOS process. , 2008, , .		30
11	Mapping Morphological and Structural Properties of Lead Halide Perovskites by Scanning Nanofocus XRD. Advanced Functional Materials, 2016, 26, 8221-8230.	14.9	27
12	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.	10.3	25
13	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.	10.3	24
14	Mode Sensitivity Analysis of Subwavelength Grating Slot Waveguides. IEEE Photonics Journal, 2019, 11, 1-10.	2.0	21
15	Supercollimation in photonic crystals composed of silicon rods. Applied Physics Letters, 2008, 93, 131111.	3.3	19
16	A review of focused ion beam applications in optical fibers. Nanotechnology, 2021, 32, 472004.	2.6	19
17	Efficient Fiber-to-Waveguide Edge Coupling Using an Optical Fiber Axicon Lens Fabricated by Focused Ion Beam. IEEE Photonics Journal, 2017, 9, 1-9.	2.0	16
18	Low-Loss Broadband Silicon TM-Pass Polarizer Based on Periodically Structured Waveguides. IEEE Photonics Technology Letters, 2020, 32, 1029-1032.	2.5	15

#	ARTICLE	IF	CITATIONS
19	Reconfigurable silicon photonic circuits for telecommunication applications. Proceedings of SPIE, 2008, , .	0.8	13
20	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.	3.3	13
21	Gradient-index optical fiber lens for efficient fiber-to-chip coupling. Optics Express, 2017, 25, 13035.	3.4	11
22	A 2D Pixelated Optical Beam Scanner Controlled by the Laser Wavelength. IEEE Journal of Selected Topics in Quantum Electronics, 2021, 27, 1-12.	2.9	10
23	Compact MMI-Based AWGs in a Scalable Monolithic Silicon Photonics Platform. IEEE Photonics Journal, 2021, 13, 1-6.	2.0	9
24	Hitless-Reconfigurable and Bandwidth-Scalable Silicon Photonic Circuits for Telecom and Interconnect Applications. , 2008, , .		8
25	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
26	Design Optimization of Single-Layer Antireflective Coating for GaAs _{1-x} Si _x /Si Tandem Cells With $\hbox{x} = \hbox{0}$, 0.17, 0.29, and 0.37. IEEE Journal of Photovoltaics, 2015, 5, 425-431.	2.5	8
27	Embedded parabolic fiber lens for efficient fiber-to-waveguide coupling fabricated by focused ion beam. JPhys Photonics, 2019, 1, 025004.	4.6	8
28	Focused ion beam milling for prototyping 2D and 3D photonic structures. International Journal of Advanced Manufacturing Technology, 2020, 107, 4469-4480.	3.0	8
29	Experimental demonstration of loop-coupled microring resonators for optimally sharp optical filters. , 2008, , .		7
30	Dispersive optical phased array circuit for high-resolution pixelated 2D far-field scanning controlled by a single wavelength variable. , 2020, , .		5
31	Gradient-index optofluidic waveguide in polydimethylsiloxane. Applied Optics, 2017, 56, 1202.	2.1	5
32	Accurate frequency alignment in fabrication of high-order microring-resonator filters. Optics Express, 2008, 16, 15958.	3.4	4
33	Fabrication of optical fiber gratings through focused ion beam techniques for sensing applications. , 2012, , .		4
34	Optofluidic approaches to stationary tracking optical concentrator systems. , 2013, , .		4
35	Electrically-actuated cantilever for planar evanescent tuning of microring resonators in SOI platforms. , 2014, , .		4
36	Strong-Confinement Microring Resonator Photonic Circuits. Conference Proceedings - Lasers and Electro-Optics Society Annual Meeting-LEOS, 2007, , .	0.0	3

#	ARTICLE	IF	CITATIONS
37	Electronic-photonic integrated circuits in silicon-on-insulator platforms. , 2011, , .		3
38	Broadband Silicon TM-Pass Polarizer using a Slot-Assisted Periodic Waveguide. , 2019, , .		3
39	All-Silicon Photodetectors for Photonic Integrated Circuit Calibration. IEEE Photonics Technology Letters, 2021, 33, 836-839.	2.5	3
40	Fabrication of Near-Field Optical Fiber Probes Through Focused Ion Beam. , 2019, , .		3
41	Environmental sensing with optical fiber sensors processed with focused ion beam and atomic layer deposition. Proceedings of SPIE, 2015, , .	0.8	2
42	Suspended Microring Resonator Sensor using Internal Sub-Wavelength Grating. , 2015, , .		2
43	GRIN-like dielectric slab lens through effective index engineering. , 2012, , .		1
44	Submicron texturing for broadband light management in thin-film PV. , 2013, , .		1
45	Characterization of molybdenum doped indium oxide/aluminum doped zinc oxide thin film stacks for optoelectronic applications. , 2015, , .		1
46	Architectures for evanescent frequency tuning of microring resonators in micro-opto-electro-mechanical SOI platforms. Proceedings of SPIE, 2015, , .	0.8	1
47	SOI-based centimeter-scale Mach-Zehnder interferometers for fluid sensing. Proceedings of SPIE, 2017, , .	0.8	1
48	Optical fiber plasmonic lens for near-field focusing fabricated through focused ion beam. , 2017, , .		1
49	Slotted Subwavelength Grating Waveguides for Compact Optofluidic Sensors. , 2018, , .		1
50	Time-Wavelength Pulse Interleaver on a Silicon Platform. , 2015, , .		1
51	Phase Response Reconstruction in Ring Resonator Filters. , 2015, , .		1
52	Dispersive OPA at Very Near-Infrared Wavelengths. , 2021, , .		1
53	Supercollimation in photonic crystals composed of nano-scale silicon rods. , 2008, , .		0
54	Silicon photonic microcavities for optical switching. , 2009, , .		0

#	ARTICLE	IF	CITATIONS
55	Dynamical systems in nanophotonics: From energy efficient modulators to light forces and optomechanics. , 2009, , .		0
56	2D directional surface strain mapping through distributed optical fiber sensors. , 2013, , .		0
57	Arbitrary frequency response filter synthesis using generalized cascaded Mach-Zehnder interferometer lattice filters. Proceedings of SPIE, 2016, , .	0.8	0
58	Introduction to Optical Inter- and Intraconnects. , 2016, , 213-220.		0
59	Integrated silicon photonic TE-pass polarizer. , 2016, , .		0
60	SOI-based Tunable Microring Resonator using Microelectromechanical Cantilevers. , 2016, , .		0
61	Integrated Gradient-Index Planar Optofluidic Polymer Waveguide. , 2017, , .		0
62	Fabrication of 2D and 3D Photonic Structures using Focused Ion Beam. , 2020, , .		0