

# Michael A Eada

## List of Publications by Year in descending order

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Version: 2024-02-01

60  
papers

651  
citations

623734

14  
h-index

610901

24  
g-index

60  
all docs

60  
docs citations

60  
times ranked

685  
citing authors

#	ARTICLE	IF	CITATIONS
1	Ultra-Wide Spectral Bandwidth and Enhanced Absorption in a Metallic Compound Grating Covered by Graphene Monolayer. IEEE Journal of Selected Topics in Quantum Electronics, 2021, 27, 1-8.	2.9	6
2	Plasmon Generation and Routing in Nanowire-Based Hybrid Plasmonic Coupling Systems With Incorporated Nanodisk Antennas. IEEE Journal of Selected Topics in Quantum Electronics, 2021, 27, 1-7.	2.9	2
3	Modeling, design, and optimization of a cost-effective and reliable hybrid renewable energy system integrated with desalination using the division algorithm. International Journal of Energy Research, 2021, 45, 429-452.	4.5	27
4	Closed-form approximation of symmetric thin-film multi-layer plasmonic dispersion equation solutions. Optics Express, 2021, 29, 5741.	3.4	0
5	Photonic nanojet beam shaping by illumination polarization engineering. Optics Communications, 2020, 456, 124593.	2.1	21
6	Efficient coupling to slow light in a silicon slot waveguide with internal corrugations. Japanese Journal of Applied Physics, 2020, 59, 082001.	1.5	0
7	Phase-Matched Mid-Infrared Difference Frequency Generation Using a Nanostructured Gallium Arsenide Metamaterial With Nanoholes. IEEE Photonics Journal, 2020, 12, 1-10.	2.0	1
8	Low loss slow light propagation in silicon slot waveguide. Optics Express, 2019, 27, 26203.	3.4	6
9	Dual broadband infrared absorptance enhanced by magnetic polaritons using graphene-covered compound metal gratings. Optics Express, 2019, 27, 30182.	3.4	9
10	Expansion of a Y-Shaped Antenna Array and Optimization of the Future Antenna Array in Malaysia for Astronomical Applications. Journal of Modern Physics, 2019, 10, 888-908.	0.6	6
11	Silicon Slot Waveguide Electro-Optic Kerr Effect Modulator. IEEE Photonics Technology Letters, 2018, 30, 873-876.	2.5	7
12	High Sensitive Z-Shaped Fiber Interferometric Refractive Index Sensor: Simulation and Experiment. IEEE Photonics Technology Letters, 2018, 30, 1131-1134.	2.5	10
13	Spectrum Efficient Time-Domain Multiplexing With Linear Prolate Functions. IEEE Wireless Communications Letters, 2018, 7, 666-669.	5.0	0
14	Demonstration of Magnetoplasmon Polariton at InSb/dielectric Interface. , 2018, , .		2
15	Concentric Circles and Spiral Configurations for Large Correlator Arrays in Radio Astronomy. Astronomical Journal, 2018, 156, 177.	4.7	1
16	Phase Matching for Difference Frequency Generation in GaAs Via an Artificial Birefringence Technique Using Silver Nanowires. IEEE Photonics Journal, 2018, 10, 1-10.	2.0	1
17	Closed-Form Approximations to Solutions of Plasmon Dispersion at a Dielectric/Conductor Interface. IEEE Journal of Quantum Electronics, 2018, 54, 1-5.	1.9	1
18	Plasmonic semiconductor-based interferometers for ultrasensitive THz biosensing. , 2017, , .		0

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19	Plasmonic behavior of III-V semiconductors in far-infrared and terahertz range. Journal of the European Optical Society-Rapid Publications, 2017, 13, .	1.9	21
20	A THz semiconductor hybrid plasmonic waveguide with fabrication-error tolerance. Japanese Journal of Applied Physics, 2017, 56, 010306.	1.5	2
21	Optimization of Positioning of Interferometric Array Antennas Using Division Algorithm for Radio Astronomy Applications. Astronomical Journal, 2017, 154, 167.	4.7	7
22	Experimental demonstration of magnetoplasmon polariton at InSb(InAs)/dielectric interface for terahertz sensor application. Scientific Reports, 2017, 7, 13117.	3.3	40
23	Semiconductor-based plasmonic interferometers for ultrasensitive sensing in a terahertz regime. Optics Letters, 2017, 42, 2338.	3.3	8
24	Magneto-optical properties of InSb for terahertz applications. AIP Advances, 2016, 6, .	1.3	49
25	Numerical Analysis of Transmission Spectrum of X-shaped Photonic Crystal Waveguide for WDM System. , 2016, , .		7
26	Simulation of Optical Pulse Propagation in Nonlinear and Dispersive Medium by Constrained Interpolated Profile Method. , 2016, , .		3
27	Novel bandwidth efficient time-domain multiplexing with linear prolate functions for optical communications. , 2016, , .		0
28	Subwavelength InSb-based Slot wavguides for THz transport: concept and practical implementations. Scientific Reports, 2016, 6, 38784.	3.3	26
29	Frequency down-conversion in GaAs enhanced by optical antennas. , 2016, , .		0
30	Resonator structure comparison for the silicon Kerr electro-optic switch. , 2016, , .		0
31	Semiconductors for Nanoplasmonics. Journal of Nanoscience and Nanotechnology, 2016, 16, 7797-7800.	0.9	1
32	Plasmon Dispersion at an Interface Between a Dielectric and a Conducting Medium With Moving Electrons. IEEE Journal of Quantum Electronics, 2016, 52, 1-7.	1.9	5
33	Wavelength-selective emitters with pyramid nanogratings enhanced by multiple resonance modes. Nanotechnology, 2016, 27, 155402.	2.6	18
34	Blind deconvolution using compressed sensing in time dispersive MIMO OFDM systems. , 2015, , .		0
35	Photonic nanojets generated by rough surface micro-cylinders. , 2015, , .		1
36	Photonic nanojet effect of surface nanostructured dielectric micro-cylinders. , 2015, , .		0

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37	Super-resolution focusing with polarized optical beam. , 2015, , .		0
38	Generation of longitudinally polarized optical chain by 4f focusing system. Optics Communications, 2015, 340, 69-73.	2.1	33
39	Analytic solution to field distribution in one-dimensional inhomogeneous media. Optics Communications, 2014, 322, 183-187.	2.1	17
40	Analysis of sub-wavelength focusing generated by radially polarized doughnut Gaussian beam. Optics and Laser Technology, 2014, 64, 242-246.	4.6	8
41	Imperfectly geometric shapes of nanograting structures as solar absorbers with superior performance for solar cells. Optics Express, 2014, 22, A282-94.	3.4	0
42	Simulation of Electrical Discharge Initiated by a Nanometer-Sized Probe in Atmospheric Conditions. Plasma Science and Technology, 2013, 15, 845-851.	1.5	1
43	Fibre optic based 3-D accelerometer design. , 2011, , .		5
44	Multistable Cascaded Optical Resonators for Deflection Sensors. IEEE Sensors Journal, 2011, 11, 1899-1904.	4.7	2
45	Nonlinear Periodic Structures with Spatially-Modulated Electric Field. Advanced Science, Engineering and Medicine, 2011, 3, 20-25.	0.3	0
46	A performance comparison between Cartesian optical network and a conventional network. , 2010, , .		0
47	Cascaded linear and nonlinear optical resonators: Towards a smart deflection sensor. , 2009, , .		0
48	The possible use of Fiber Bragg Grating based accelerometers for seismic measurements. , 2009, , .		21
49	Ultrashort pulse polarization control in silicon waveguides. Optics Express, 2009, 17, 1795.	3.4	1
50	Modeling the Response of a Long-Period Fiber Grating to Ambient Refractive Index Change in Chemical Sensing Applications. Journal of Lightwave Technology, 2008, 26, 1986-1992.	4.6	28
51	Electrically and optically controlled cross-polarized wave conversion. Optics Express, 2008, 16, 3083.	3.4	9
52	Electronic control of soliton power transfer in silicon nanocrystal waveguides. Optics Express, 2008, 16, 9587.	3.4	2
53	Quadratic Electro-Optic Kerr Effect: Applications to Photonic Devices. IEEE Journal of Quantum Electronics, 2008, 44, 740-746.	1.9	32
54	Re-configurable all-optical devices based on electrically controlled cross-polarized wave conversion. , 2007, , .		0

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55	Polarization changes of partially coherent pulses propagating in optical fibers. , 2007, , .		0
56	Dark and antidark diffraction-free beams. Optics Letters, 2007, 32, 2508.	3.3	54
57	Two-dimensional metallo-dielectric photonic crystals embedded in anodic porous alumina for optical wavelengths. Applied Physics Letters, 2004, 85, 1311-1313.	3.3	47
58	Prolate spheroidal wave functions, an introduction to the Slepian series and its properties. Applied and Computational Harmonic Analysis, 2004, 16, 208-230.	2.2	86
59	A Global Optimization Approach to Laser Design. Optimization and Engineering, 2003, 4, 177-196.	2.4	12
60	Coupled-power theory of nonlinear distributed-feedback lasers, yielding reduced longitudinal spatial hole burning. Applied Physics Letters, 1998, 72, 3255-3257.	3.3	5