Mohammed A Swillam

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

173
papers

1,232
citations

1,232
h-index

267
ext. papers

20
papers

25
g-index

267
ext. citations

27
avg, IF

L-index

#	Paper	IF	Citations
173	Explore the charge transfer and d-d excitation in perovskite manganite using 2p3d resonant inelastic X-ray scattering. <i>Journal of Alloys and Compounds</i> , 2022 , 904, 164020	5.7	
172	Optical modulator using ultra-thin silicon waveguide in SOI hybrid technology. <i>Optical and Quantum Electronics</i> , 2022 , 54, 1	2.4	
171	Modelling, characterization, and applications of silicon on insulator loop terminated asymmetric Mach Zehnder interferometer <i>Scientific Reports</i> , 2022 , 12, 3598	4.9	О
170	Photon harvesting and light trapping in pentacene and PTCDI-C13H27 for organic solar cell application. <i>Optik</i> , 2022 , 258, 168931	2.5	
169	Compact Gas Sensor Using Silicon-on-Insulator Loop-Terminated Machizehnder Interferometer. <i>Photonics</i> , 2022 , 9, 8	2.2	1
168	Plasmonic Biosensors: Review. <i>Biology</i> , 2022 , 11, 621	4.9	3
167	Extraordinary optical transmission in silicon nanoholes. <i>Scientific Reports</i> , 2021 , 11, 21546	4.9	O
166	Electronic structure and energy gaps evaluation of perovskite manganite single crystals using XES and XAS spectroscopy. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2021 , 250, 147084	1.7	2
165	A compact 100 GHz femtojoule silicon-organic hybrid modulator based on a novel Machilehnder interferometer design. <i>Journal of Optics (United Kingdom)</i> , 2021 , 23, 095801	1.7	O
164	Shallow silicon sub-wavelength grating waveguide for electro-optical modulation. <i>Optics Communications</i> , 2020 , 474, 126098	2	1
163	Experimental and DFT investigation of electronic structure and ferromagnetic stable state in pristine and Mn: SnO2 NPs. <i>Vacuum</i> , 2020 , 179, 109536	3.7	1
162	Broad-band OrganicBilicon Nanowire Hybrid Composites for Solar Energy Applications. <i>ACS Applied Nano Materials</i> , 2020 , 3, 7446-7453	5.6	O
161	Infrared subwavelength focusing metasurfaces for harvesting heat from the Earth back radiation. <i>Physica Scripta</i> , 2020 , 95, 035505	2.6	O
160	Accurate and efficient leap-frog beam propagation method for modeling micro and nanophotonic structures. <i>Applied Optics</i> , 2020 , 59, 6881-6887	1.7	
159	Mid Infrared Optical Gas Sensor Using Plasmonic Mach-Zehnder Interferometer. <i>Scientific Reports</i> , 2020 , 10, 1293	4.9	30
158	Electronic structure and spontaneous magnetization in Mn-doped SnO2. <i>Journal of Applied Physics</i> , 2020 , 128, 045705	2.5	
157	Free space super focusing using all dielectric hyperbolic metamaterial. <i>Scientific Reports</i> , 2020 , 10, 115	2 9 4.9	3

(2018-2020)

156	Integrated Lab-on-a-Chip Optical Biosensor Using Ultrathin Silicon Waveguide SOI MMI Device. <i>Sensors</i> , 2020 , 20,	3.8	2
155	Mid Infrared Integrated MZI Gas Sensor Using Suspended Silicon Waveguide. <i>Journal of Lightwave Technology</i> , 2019 , 37, 4394-4400	4	10
154	One Step Fabrication of Highly Absorptive and Surface Enhanced Raman Scattering (SERS) Silver Nano-trees on Silicon Substrate. <i>Scientific Reports</i> , 2019 , 9, 13588	4.9	9
153	On Chip Optical Modulator using Epsilon-Near-Zero Hybrid Plasmonic Platform. <i>Scientific Reports</i> , 2019 , 9, 6669	4.9	9
152	Broadband MIR harvester using silicon nanostructures. <i>Scientific Reports</i> , 2019 , 9, 5829	4.9	4
151	Ultra-fast silicon electro-optic modulator based on ITO-integrated directional coupler. <i>Physica Scripta</i> , 2019 , 94, 065502	2.6	5
150	Sub-Femtojoule Hybrid Plasmonic Optical Modulator. <i>IEEE Photonics Journal</i> , 2019 , 11, 1-12	1.8	4
149	Polarization independent dielectric metasurface for infrared beam steering applications. <i>Scientific Reports</i> , 2019 , 9, 10824	4.9	12
148	Subwavelength focusing in the infrared range using different metasurfaces. <i>Physica Scripta</i> , 2019 , 94, 115511	2.6	1
147	Silicon ring resonator electro-optical modulator utilizing epsilon-near-zero characteristics of indium tin oxide. <i>Physica Scripta</i> , 2019 , 94, 125507	2.6	2
146	Integrated slotted ring resonator at mid-infrared for on-chip sensing applications. <i>Journal of Nanophotonics</i> , 2019 , 13, 1	1.1	1
145	Hybrid plasmonic electro-optical absorption modulator based on phase change characteristics of vanadium-dioxide. <i>Journal of Nanophotonics</i> , 2019 , 13, 1	1.1	1
144	A compact silicon-on-insulator gas sensor 2019 ,		2
143	Gas sensing devices using doped silicon material at mid-infrared region 2019,		1
142	silicon-based plasmonic nanoantennas 2019 ,		1
141	Novel silicon-on-insulator Michelson interferometer for optical filtering and wavelength demultiplexing applications 2019 ,		2
140	Design considerations of highly efficient D-shaped plasmonic biosensor. <i>Optical and Quantum Electronics</i> , 2019 , 51, 1	2.4	6
139	One step fabrication of Silicon nanocones with wide-angle enhanced light absorption. <i>Scientific Reports</i> , 2018 , 8, 4001	4.9	4

138	Silicon Plasmonics On-Chip Mid-IR Gas Sensor. <i>IEEE Photonics Technology Letters</i> , 2018 , 30, 931-934	2.2	7
137	Silicon based mid-IR super absorber using hyperbolic metamaterial. <i>Scientific Reports</i> , 2018 , 8, 2036	4.9	25
136	Amplitude modulation in infrared metamaterial absorbers based on electro-optically tunable conducting oxides. <i>Applied Physics A: Materials Science and Processing</i> , 2018 , 124, 1	2.6	14
135	Vertical Silicon Nanowires Based Directional Coupler Optical Router. <i>IEEE Photonics Technology Letters</i> , 2018 , 30, 789-792	2.2	5
134	Silicon plasmonic integrated interferometer sensor for lab on chip applications. <i>Optics Communications</i> , 2018 , 427, 319-325	2	9
133	. Journal of Lightwave Technology, 2018 , 36, 4198-4204	4	21
132	Hybrid plasmonic electro-optical absorption modulator based on epsilon-near-zero characteristics of ITO 2018 ,		3
131	An all silicon-based metamaterial for mid-IR energy harvesting 2018,		1
130	Electrical characteristics of silicon nanowires solar cells with surface roughness 2018,		2
129	VO2 / ITO Hybrid Plasmonic High Performance Electro-Optical Modulator 2018 ,		2
128	Leap-frog-based BPM (LF-BPM) method for solving nanophotonic structures 2018,		1
127	High-performance optical modulator using ultra-thin silicon waveguide in SOI technology 2018,		1
126	Mid-infrared plasmonic gas sensor 2018 ,		1
125	Near-Field Mapping of Localized Plasmon Resonances in Metal-Free, Nanomembrane Graphene for Mid-Infrared Sensing Applications. <i>ACS Applied Nano Materials</i> , 2018 , 1, 6454-6462	5.6	7
124	Lithography-Free Fabrication of Crystalline Silicon Nanowires Using Amorphous Silicon Substrate for Wide-Angle Energy Absorption Applications. <i>ACS Applied Nano Materials</i> , 2018 , 1, 2990-2996	5.6	6
123	Semiconductor plasmonic gas sensor using on-chip infrared spectroscopy. <i>Applied Physics A:</i> Materials Science and Processing, 2017 , 123, 1	2.6	19
122	Broadband absorption enhancement in organic solar cells using refractory plasmonic ceramics. <i>Journal of Nanophotonics</i> , 2017 , 11, 016001	1.1	4
121	Low power hybrid plasmonic microring-on-disks electro-optical modulators. <i>Journal of Nanophotonics</i> , 2017 , 11, 016014	1.1	5

(2017-2017)

120	Broadband absorption enhancement in amorphous Si solar cells using metal gratings and surface texturing 2017 ,		2
119	Fiber-optic-based interferometric sensor 2017 ,		1
118	Silver-decorated silicon nanowires array as surface-enhanced Raman scattering (SERS) substrate 2017 ,		1
117	Multifunctional TiN nanowires for wide band absorption in organic solar cells 2017,		1
116	Modeling and analysis of scattering from silicon nanoparticles with high excess carriers for MIR spectroscopy 2017 ,		1
115	Silicon plasmonics at midinfrared using silicon-insulator-silicon platform. <i>Journal of Nanophotonics</i> , 2017 , 11, 016006	1.1	8
114	Optical analysis of Si-tapered nanowires/low band gap polymer hybrid solar cells 2017,		2
113	Long-range all-dielectric plasmonic waveguide in mid-infrared. <i>Applied Physics A: Materials Science and Processing</i> , 2017 , 123, 1	2.6	4
112	High performance silicon Mach-Zehnder interferometer based photonic modulator 2017,		4
111	Effective modelling of silicon nanowire solar cells 2017 ,		4
111	Effective modelling of silicon nanowire solar cells 2017, Subwavelength focusing in the infrared range using a meta surface 2017,		3
		1.1	
110	Subwavelength focusing in the infrared range using a meta surface 2017, Linearized finite-element method solution of the ion-exchange nonlinear diffusion model. <i>Journal</i>	1.1	3
110	Subwavelength focusing in the infrared range using a meta surface 2017, Linearized finite-element method solution of the ion-exchange nonlinear diffusion model. <i>Journal of Nanophotonics</i> , 2017, 11, 026013 Silicon-Based SERS Substrates Fabricated by Electroless Etching. <i>Journal of Lightwave Technology</i> ,		3
110	Subwavelength focusing in the infrared range using a meta surface 2017, Linearized finite-element method solution of the ion-exchange nonlinear diffusion model. <i>Journal of Nanophotonics</i> , 2017, 11, 026013 Silicon-Based SERS Substrates Fabricated by Electroless Etching. <i>Journal of Lightwave Technology</i> , 2017, 35, 3075-3081 Efficient fabrication methodology of wide angle black silicon for energy harvesting applications.	4	3 1 15
110 109 108	Subwavelength focusing in the infrared range using a meta surface 2017, Linearized finite-element method solution of the ion-exchange nonlinear diffusion model. <i>Journal of Nanophotonics</i> , 2017, 11, 026013 Silicon-Based SERS Substrates Fabricated by Electroless Etching. <i>Journal of Lightwave Technology</i> , 2017, 35, 3075-3081 Efficient fabrication methodology of wide angle black silicon for energy harvesting applications. <i>RSC Advances</i> , 2017, 7, 26974-26982	4	3 1 15 22
110 109 108 107	Subwavelength focusing in the infrared range using a meta surface 2017, Linearized finite-element method solution of the ion-exchange nonlinear diffusion model. <i>Journal of Nanophotonics</i> , 2017, 11, 026013 Silicon-Based SERS Substrates Fabricated by Electroless Etching. <i>Journal of Lightwave Technology</i> , 2017, 35, 3075-3081 Efficient fabrication methodology of wide angle black silicon for energy harvesting applications. <i>RSC Advances</i> , 2017, 7, 26974-26982 Ultra-sensitive silicon-photonic on-chip sensor using microfabrication technology 2017, Silicon-on-sapphire (SOS) waveguide modal analysis for mid-infrared applications. <i>Journal of Physics</i>	3.7	3 1 15 22

102	Tunable Mid IR focusing in InAs based semiconductor Hyperbolic Metamaterial. <i>Scientific Reports</i> , 2017 , 7, 15312	4.9	24
101	Electro-Optic Plasmonic Modulator With Direct Coupling to Silicon Waveguides. <i>IEEE Photonics Journal</i> , 2017 , 9, 1-7	1.8	5
100	Solving the nonlinear diffusion model of the ion exchange process using finite element method 2017 ,		1
99	The FDTD Method: Essences, Evolutions, and Applications to Nano-Optics and Quantum Physics 2017 , 37-82		
98	Finite-Difference Time-Domain Method in Photonics and Nanophotonics 2017, 1-36		
97	All-Silicon Directional Coupler Electro-Optic Modulator Utilizing Transparent Conducting Oxides 2017 ,		1
96	Graphene plasmonic electro-absorption modulator 2016,		1
95	2016,		2
94	Electro-optic modulators based on hybrid plasmonic micro-ring-disk resonators with femtojoule switching energy. <i>Applied Physics A: Materials Science and Processing</i> , 2016 , 122, 1	2.6	9
93	Semiconductor plasmonic gas sensor 2016 ,		1
93 92	Semiconductor plasmonic gas sensor 2016 , Lithography-free wide-angle antireflective self-cleaning silicon nanocones. <i>Optics Letters</i> , 2016 , 41, 357	7538	1
		75 3 8	
92	Lithography-free wide-angle antireflective self-cleaning silicon nanocones. <i>Optics Letters</i> , 2016 , 41, 357 Integrated optical sensor using hybrid plasmonics for lab on chip applications. <i>Journal of Optics</i>		11
92 91	Lithography-free wide-angle antireflective self-cleaning silicon nanocones. <i>Optics Letters</i> , 2016 , 41, 357 Integrated optical sensor using hybrid plasmonics for lab on chip applications. <i>Journal of Optics (United Kingdom)</i> , 2016 , 18, 085803 Optimal design of intermediate reflector layer in micromorph silicon thin-film solar cells. <i>Journal of</i>	1.7	11 20
92 91 90	Lithography-free wide-angle antireflective self-cleaning silicon nanocones. <i>Optics Letters</i> , 2016 , 41, 357 Integrated optical sensor using hybrid plasmonics for lab on chip applications. <i>Journal of Optics (United Kingdom)</i> , 2016 , 18, 085803 Optimal design of intermediate reflector layer in micromorph silicon thin-film solar cells. <i>Journal of Nanophotonics</i> , 2016 , 10, 046006	1.7	11 20 4
92 91 90 89	Lithography-free wide-angle antireflective self-cleaning silicon nanocones. <i>Optics Letters</i> , 2016 , 41, 357 Integrated optical sensor using hybrid plasmonics for lab on chip applications. <i>Journal of Optics (United Kingdom)</i> , 2016 , 18, 085803 Optimal design of intermediate reflector layer in micromorph silicon thin-film solar cells. <i>Journal of Nanophotonics</i> , 2016 , 10, 046006 Metal-less silicon plasmonic mid-infrared gas sensor. <i>Journal of Nanophotonics</i> , 2016 , 10, 026025 Toward automated parasitic extraction of silicon photonics using layout physical verifications.	1.7	11 20 4
92 91 90 89 88	Lithography-free wide-angle antireflective self-cleaning silicon nanocones. <i>Optics Letters</i> , 2016 , 41, 357 Integrated optical sensor using hybrid plasmonics for lab on chip applications. <i>Journal of Optics (United Kingdom)</i> , 2016 , 18, 085803 Optimal design of intermediate reflector layer in micromorph silicon thin-film solar cells. <i>Journal of Nanophotonics</i> , 2016 , 10, 046006 Metal-less silicon plasmonic mid-infrared gas sensor. <i>Journal of Nanophotonics</i> , 2016 , 10, 026025 Toward automated parasitic extraction of silicon photonics using layout physical verifications. <i>Journal of Optics (United Kingdom)</i> , 2016 , 18, 085801 Hybrid electro-optic plasmonic modulators based on directional coupler switches. <i>Applied Physics A</i> :	1.7 1.1 1.1	11 20 4 12 2

84	Silicon solar cell using optimized intermediate reflector layer 2016,		1
83	Low power compact hybrid plasmonic double microring electro-optical modulator 2016,		3
82	Modelling of quantum confinement in optical nanostructures. <i>Journal of Optics (United Kingdom)</i> , 2016 , 18, 015201	1.7	3
81	Hybrid Plasmonic Modulators and Filters Based on Electromagnetically Induced Transparency. <i>IEEE Photonics Technology Letters</i> , 2016 , 28, 818-821	2.2	30
80	Optical trapping and manipulation of nanoparticles using a meta plasmonic structure. <i>Journal of Optics (United Kingdom)</i> , 2016 , 18, 015002	1.7	5
79	Silicon-based nanostructures as surface enhanced Raman scattering substrates 2016 ,		3
78	2016,		2
77	High efficiency compact Bragg sensor 2016 ,		1
76	Mid infrared applications of silicon thermoplasmonics 2016,		1
75	Hybrid plasmonic electro-optical modulator. <i>Applied Physics A: Materials Science and Processing</i> , 2016 , 122, 1	2.6	22
74	Dispersion engineering of silicon-on-sapphire (SOS) waveguides for mid-infrared applications 2016,		1
73	Artificial neural network modeling of plasmonic transmission lines. <i>Applied Optics</i> , 2016 , 55, 2780-90	0.2	14
72	Mid-Infrared Plasmonic Power Splitters. IEEE Photonics Technology Letters, 2016, 28, 2431-2434	2.2	9
71	Optical biosensor based on silicon nanowire ridge waveguide 2015 ,		1
70	. Journal of Lightwave Technology, 2015 , 33, 3207-3214	4	23
69	Introduction to the special issue on numerical simulation of optoelectronic devices NUSOD¶4. <i>Optical and Quantum Electronics</i> , 2015 , 47, 1291-1292	2.4	3
68	Plasmonic waveguides in mid-infrared using silicon-insulator-silicon 2015,		3
67	Nanoelectromechanical systems-based metal-insulator-metal plasmonics tunable filter. <i>Journal of Micro/ Nanolithography, MEMS, and MOEMS</i> , 2015 , 14, 025501	0.7	11

66	Super-focusing using plasmonic lens based on super oscillation effect 2015,		1
65	Optical biosensor based on a silicon nanowire ridge waveguide for lab on chip applications. <i>Journal of Optics (United Kingdom)</i> , 2015 , 17, 045802	1.7	19
64	Dispersion analysis and engineering of 2D plasmonic waveguides. <i>Journal of Optics (United Kingdom)</i> , 2015 , 17, 015003	1.7	7
63	Nonlinear tuning techniques of plasmonic nano-filters. <i>Optics Communications</i> , 2015 , 336, 306-314	2	15
62	Nanoscale highly selective plasmonic quad wavelength demultiplexer based on a metal[hsulator[hetal. <i>Optics Communications</i> , 2015 , 344, 106-112	2	21
61	High Sensitivity Hybrid Plasmonic Rectangular Resonator for Gas Sensing Applications 2015,		4
60	Broadband Compact Silicon Wire to Silicon Slot Waveguide Orthogonal Bend. <i>Journal of Lightwave Technology</i> , 2014 , 32, 1399-1405	4	4
59	Submicron 1xN Ultra Wideband MIM Plasmonic Power Splitters. <i>Journal of Lightwave Technology</i> , 2014 , 32, 1814-1820	4	20
58	Vertically aligned crystalline silicon nanowires with controlled diameters for energy conversion applications: Experimental and theoretical insights. <i>Journal of Applied Physics</i> , 2014 , 115, 194305	2.5	31
57	Semi-analytical design methodology for large scale metal i hsulator i hetal waveguide networks. <i>Journal of Optics (United Kingdom)</i> , 2014 , 16, 065007	1.7	7
56	Plasmonic tunable nano-filter 2014 ,		2
55	Super-focusing of visible and UV light using a meta surface. <i>Journal of Optics (United Kingdom)</i> , 2014 , 16, 105007	1.7	9
54	Submicron omega-shaped plasmonic polarization rotator. <i>Journal of Optics (United Kingdom)</i> , 2014 , 16, 105001	1.7	9
53	Efficient sensitivity analysis approach based on finite element solutions of photonic structures. <i>Optics Communications</i> , 2014 , 313, 430-435	2	5
52	Submicron-integrated plasmonic power splitter 2014 ,		1
51	Cheap and efficient plasmonic solar cell 2014 ,		5
50	Design optimization and fabrication of plasmonic nano sensor 2014 ,		3
49	Tunable nanoscale-effecient plasmonic demultiplexers 2014,		2

(2012-2014)

48	Plasmonic silicon solar cells using titanium nitride: a comparative study. <i>Journal of Nanophotonics</i> , 2014 , 8, 084098	1.1	23
47	Analysis of plasmonic effects in silicon nanoholes. <i>Optical Engineering</i> , 2014 , 53, 107103	1.1	1
46	Integrated coupled multi-stage plasmonic resonator for on-chip sensing 2014,		2
45	Plasmonic Slot Waveguides with Core Nonlinearity. <i>Plasmonics</i> , 2014 , 9, 409-413	2.4	5
44	Towards 3D plasmonic circuits: controlled coupling to multilevel plasmonic circuits 2013,		1
43	Equivalent circuit model for plasmonic slot waveguides networks 2013,		2
42	Plasmonic slot waveguides with core nonlinearity 2013,		3
41	Spatial beam splitting for fully integrated MEMSinterferometer. Optics Communications, 2013, 295, 249	-256	5
40	Realizing vertical light coupling and splitting in nano-plasmonic multilevel circuits. <i>Optics Express</i> , 2013 , 21, 26311-22	3.3	7
39	Resonance-based integrated plasmonic nanosensor for lab-on-chip applications. <i>Journal of Nanophotonics</i> , 2013 , 7, 073077	1.1	22
38	Broadband Compact Si Wire to Slot Waveguide Couplers 2013,		1
37	INTEGRATED METAL-INSULATOR-METAL PLASMONIC NANO RESONATOR: AN ANALYTICAL APPROACH. <i>Progress in Electromagnetics Research Letters</i> , 2013 , 43, 83-94	0.5	16
36	Silicon Nanowires with controlled diameter for energy conversion applications 2013,		1
35	Efficient broadband energy transfer via momentum matching at hybrid junctions of guided-waves. <i>Applied Physics Letters</i> , 2012 , 101, 123115	3.4	25
34	Feedback Effects in Plasmonic Slot Waveguides Examined Using a Closed Form Model. <i>IEEE Photonics Technology Letters</i> , 2012 , 24, 497-499	2.2	31
33	Efficient Design of Coupled Microcavities at Optical Frequencies. <i>Micromachines</i> , 2012 , 3, 204-217	3.3	1
32	Polarization-controlled excitation of multilevel plasmonic nano-circuits using single silicon nanowire. <i>Optics Express</i> , 2012 , 20, 12473-86	3.3	14
31	Analytical model for metal[hsulator[hetal mesh waveguide architectures. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2012 , 29, 3157	1.7	25

30	Silicon nanowire arrays with enhanced optical properties. Optics Letters, 2012, 37, 4194-6	3	20
29	Efficient sensitivity analysis of optical structures using Finite Element Method 2012,		1
28	Broadband efficient hybrid plasmonic nano-junctions 2012 ,		2
27	Closed-form modelling of plasmonic mesh structures 2012 ,		2
26	A perturbation approach for the design of coupled resonator optical waveguides (CROWs) 2012,		1
25	Characteristics and applications of rectangular waveguide in sensing, slow light, and negative refraction 2011 ,		3
24	Efficient Design Optimization of Ring Resonator-Based Optical Filters. <i>Journal of Lightwave Technology</i> , 2011 , 29, 2812-2817	4	24
23	All-optical ultrafast control of beaming through a single sub-wavelength aperture in a metal film. <i>Optics Express</i> , 2011 , 19, 7856-64	3.3	8
22	Filter Design Using Multiple Coupled Microcavities. <i>IEEE Photonics Technology Letters</i> , 2011 , 23, 1160-1	1 <u>62</u>	5
21	Efficient material parameters estimation with terahertz time-domain spectroscopy 2011,		1
20	Filter Response of Feedback Plasmonic Junctions 2011 ,		2
19	Analysis and applications of 3D rectangular metallic waveguides. <i>Optics Express</i> , 2010 , 18, 19831-43	3.3	20
18	Modeling and design of nano-plasmonic structures using transmission line modeling. <i>Optics Express</i> , 2010 , 18, 21784-97	3.3	11
17	Hybrid orthogonal junctions: wideband plasmonic slot-silicon waveguide couplers. <i>Optics Express</i> , 2010 , 18, 27048-59	3.3	42
16	Efficient Design of Integrated Wideband Polarization Splitter/Combiner. <i>Journal of Lightwave Technology</i> , 2010 , 28, 1176-1183	4	15
15	Efficient Optimization Approach for Accurate Parameter Extraction With Terahertz Time-Domain Spectroscopy. <i>Journal of Lightwave Technology</i> , 2010 , 28, 1685-1692	4	16
14	Design Optimization of Compact Wideband Optical Switch Exploiting Staircase Index MMI. <i>Journal of Lightwave Technology</i> , 2009 , 27, 80-87	4	6
13	EFFICIENT APPROACH FOR SENSITIVITY ANALYSIS OF LOSSY AND LEAKY STRUCTURES USING FDTD. <i>Progress in Electromagnetics Research</i> , 2009 , 94, 197-212	3.8	12

LIST OF PUBLICATIONS

12	Technology, 2008 , 26, 528-536	4	10
11	Efficient 3D sensitivity analysis of surface plasmon waveguide structures. <i>Optics Express</i> , 2008 , 16, 163	71 5. § 1	7
10	Effect of the fabrication and design parameters on the performance of multimode interference devices made by ion exchange: a detailed study. <i>Journal of Optics</i> , 2008 , 10, 125301		7
9	Full Wave Sensitivity Analysis of Guided Wave Structures Using FDTD. <i>Journal of Electromagnetic Waves and Applications</i> , 2008 , 22, 2135-2145	1.3	12
8	Efficient sensitivity analysis of the time independent Schrdinger equation with application to quantum lasers. <i>Optics Communications</i> , 2008 , 281, 4459-4463	2	6
7	Adjoint Sensitivity Analysis of Dielectric Discontinuities Using FDTD. <i>Electromagnetics</i> , 2007 , 27, 123-14	8.c 0 0	16
6	Accurate sensitivity analysis of photonic devices exploiting the finite-difference time-domain cavity adjoint variable method. <i>Applied Optics</i> , 2007 , 46, 1492-9	1.7	13
5	The Design of Multilayer Optical Coatings Using Convex Optimization. <i>Journal of Lightwave Technology</i> , 2007 , 25, 1078-1085	4	8
4	Efficient Adjoint Sensitivity Analysis Exploiting the FD-BPM. <i>Journal of Lightwave Technology</i> , 2007 , 25, 1861-1869	4	12
3	Optimized 3D design of an MMI splitter with ion exchange technology 2005 , 5970, 397		2
2	Potential of slot waveguides for silicon-based optical interconnects. SPIE Newsroom,		2
1	Effects of Nanosized PbO and MgO, Rolling, and Sintering Time on Crack and Current Density of Bi1.6Pb0.4Sr2Ca2Cu3O10/Ag Superconductor Tapes. <i>Journal of Superconductivity and Novel Magnetism</i> .1	1.5	