

# Mohammed A Swillam

## List of Publications by Citations

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173  
papers

1,232  
citations

20  
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267  
ext. papers

1,882  
ext. citations

2.7  
avg, IF

5.16  
L-index

#	Paper	IF	Citations
173	Hybrid orthogonal junctions: wideband plasmonic slot-silicon waveguide couplers. <i>Optics Express</i> , <b>2010</b> , 18, 27048-59	3.3	42
172	Vertically aligned crystalline silicon nanowires with controlled diameters for energy conversion applications: Experimental and theoretical insights. <i>Journal of Applied Physics</i> , <b>2014</b> , 115, 194305	2.5	31
171	Feedback Effects in Plasmonic Slot Waveguides Examined Using a Closed Form Model. <i>IEEE Photonics Technology Letters</i> , <b>2012</b> , 24, 497-499	2.2	31
170	Hybrid Plasmonic Modulators and Filters Based on Electromagnetically Induced Transparency. <i>IEEE Photonics Technology Letters</i> , <b>2016</b> , 28, 818-821	2.2	30
169	Mid Infrared Optical Gas Sensor Using Plasmonic Mach-Zehnder Interferometer. <i>Scientific Reports</i> , <b>2020</b> , 10, 1293	4.9	30
168	Silicon based mid-IR super absorber using hyperbolic metamaterial. <i>Scientific Reports</i> , <b>2018</b> , 8, 2036	4.9	25
167	Efficient broadband energy transfer via momentum matching at hybrid junctions of guided-waves. <i>Applied Physics Letters</i> , <b>2012</b> , 101, 123115	3.4	25
166	Analytical model for metal-insulator-metal mesh waveguide architectures. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>2012</b> , 29, 3157	1.7	25
165	Tunable Mid IR focusing in InAs based semiconductor Hyperbolic Metamaterial. <i>Scientific Reports</i> , <b>2017</b> , 7, 15312	4.9	24
164	Efficient Design Optimization of Ring Resonator-Based Optical Filters. <i>Journal of Lightwave Technology</i> , <b>2011</b> , 29, 2812-2817	4	24
163	. <i>Journal of Lightwave Technology</i> , <b>2015</b> , 33, 3207-3214	4	23
162	Plasmonic silicon solar cells using titanium nitride: a comparative study. <i>Journal of Nanophotonics</i> , <b>2014</b> , 8, 084098	1.1	23
161	Efficient fabrication methodology of wide angle black silicon for energy harvesting applications. <i>RSC Advances</i> , <b>2017</b> , 7, 26974-26982	3.7	22
160	Resonance-based integrated plasmonic nanosensor for lab-on-chip applications. <i>Journal of Nanophotonics</i> , <b>2013</b> , 7, 073077	1.1	22
159	Hybrid plasmonic electro-optical modulator. <i>Applied Physics A: Materials Science and Processing</i> , <b>2016</b> , 122, 1	2.6	22
158	. <i>Journal of Lightwave Technology</i> , <b>2018</b> , 36, 4198-4204	4	21
157	Nanoscale highly selective plasmonic quad wavelength demultiplexer based on a metal-insulator-metal. <i>Optics Communications</i> , <b>2015</b> , 344, 106-112	2	21

156	Integrated optical sensor using hybrid plasmonics for lab on chip applications. <i>Journal of Optics (United Kingdom)</i> , <b>2016</b> , 18, 085803	1.7	20
155	Hybrid electro-optic plasmonic modulators based on directional coupler switches. <i>Applied Physics A: Materials Science and Processing</i> , <b>2016</b> , 122, 1	2.6	20
154	Submicron 1xN Ultra Wideband MIM Plasmonic Power Splitters. <i>Journal of Lightwave Technology</i> , <b>2014</b> , 32, 1814-1820	4	20
153	Analysis and applications of 3D rectangular metallic waveguides. <i>Optics Express</i> , <b>2010</b> , 18, 19831-43	3.3	20
152	Silicon nanowire arrays with enhanced optical properties. <i>Optics Letters</i> , <b>2012</b> , 37, 4194-6	3	20
151	Semiconductor plasmonic gas sensor using on-chip infrared spectroscopy. <i>Applied Physics A: Materials Science and Processing</i> , <b>2017</b> , 123, 1	2.6	19
150	Optical biosensor based on a silicon nanowire ridge waveguide for lab on chip applications. <i>Journal of Optics (United Kingdom)</i> , <b>2015</b> , 17, 045802	1.7	19
149	Efficient Optimization Approach for Accurate Parameter Extraction With Terahertz Time-Domain Spectroscopy. <i>Journal of Lightwave Technology</i> , <b>2010</b> , 28, 1685-1692	4	16
148	Adjoint Sensitivity Analysis of Dielectric Discontinuities Using FDTD. <i>Electromagnetics</i> , <b>2007</b> , 27, 123-140	0.8	16
147	INTEGRATED METAL-INSULATOR-METAL PLASMONIC NANO RESONATOR: AN ANALYTICAL APPROACH. <i>Progress in Electromagnetics Research Letters</i> , <b>2013</b> , 43, 83-94	0.5	16
146	Silicon-Based SERS Substrates Fabricated by Electroless Etching. <i>Journal of Lightwave Technology</i> , <b>2017</b> , 35, 3075-3081	4	15
145	Nonlinear tuning techniques of plasmonic nano-filters. <i>Optics Communications</i> , <b>2015</b> , 336, 306-314	2	15
144	Efficient Design of Integrated Wideband Polarization Splitter/Combiner. <i>Journal of Lightwave Technology</i> , <b>2010</b> , 28, 1176-1183	4	15
143	Amplitude modulation in infrared metamaterial absorbers based on electro-optically tunable conducting oxides. <i>Applied Physics A: Materials Science and Processing</i> , <b>2018</b> , 124, 1	2.6	14
142	Polarization-controlled excitation of multilevel plasmonic nano-circuits using single silicon nanowire. <i>Optics Express</i> , <b>2012</b> , 20, 12473-86	3.3	14
141	Artificial neural network modeling of plasmonic transmission lines. <i>Applied Optics</i> , <b>2016</b> , 55, 2780-90	0.2	14
140	Accurate sensitivity analysis of photonic devices exploiting the finite-difference time-domain cavity adjoint variable method. <i>Applied Optics</i> , <b>2007</b> , 46, 1492-9	1.7	13
139	Metal-less silicon plasmonic mid-infrared gas sensor. <i>Journal of Nanophotonics</i> , <b>2016</b> , 10, 026025	1.1	12

138	Polarization independent dielectric metasurface for infrared beam steering applications. <i>Scientific Reports</i> , <b>2019</b> , 9, 10824	4.9	12
137	Full Wave Sensitivity Analysis of Guided Wave Structures Using FDTD. <i>Journal of Electromagnetic Waves and Applications</i> , <b>2008</b> , 22, 2135-2145	1.3	12
136	EFFICIENT APPROACH FOR SENSITIVITY ANALYSIS OF LOSSY AND LEAKY STRUCTURES USING FDTD. <i>Progress in Electromagnetics Research</i> , <b>2009</b> , 94, 197-212	3.8	12
135	Efficient Adjoint Sensitivity Analysis Exploiting the FD-BPM. <i>Journal of Lightwave Technology</i> , <b>2007</b> , 25, 1861-1869	4	12
134	Nanoelectromechanical systems-based metal-insulator-metal plasmonics tunable filter. <i>Journal of Micro/Nanolithography, MEMS, and MOEMS</i> , <b>2015</b> , 14, 025501	0.7	11
133	Lithography-free wide-angle antireflective self-cleaning silicon nanocones. <i>Optics Letters</i> , <b>2016</b> , 41, 3575-38	3.8	11
132	Modeling and design of nano-plasmonic structures using transmission line modeling. <i>Optics Express</i> , <b>2010</b> , 18, 21784-97	3.3	11
131	Mid Infrared Integrated MZI Gas Sensor Using Suspended Silicon Waveguide. <i>Journal of Lightwave Technology</i> , <b>2019</b> , 37, 4394-4400	4	10
130	Full Vectorial 3-D Sensitivity Analysis and Design Optimization Using BPM. <i>Journal of Lightwave Technology</i> , <b>2008</b> , 26, 528-536	4	10
129	One Step Fabrication of Highly Absorptive and Surface Enhanced Raman Scattering (SERS) Silver Nano-trees on Silicon Substrate. <i>Scientific Reports</i> , <b>2019</b> , 9, 13588	4.9	9
128	On Chip Optical Modulator using Epsilon-Near-Zero Hybrid Plasmonic Platform. <i>Scientific Reports</i> , <b>2019</b> , 9, 6669	4.9	9
127	Electro-optic modulators based on hybrid plasmonic micro-ring-disk resonators with femtojoule switching energy. <i>Applied Physics A: Materials Science and Processing</i> , <b>2016</b> , 122, 1	2.6	9
126	Silicon plasmonic integrated interferometer sensor for lab on chip applications. <i>Optics Communications</i> , <b>2018</b> , 427, 319-325	2	9
125	Super-focusing of visible and UV light using a meta surface. <i>Journal of Optics (United Kingdom)</i> , <b>2014</b> , 16, 105007	1.7	9
124	Submicron omega-shaped plasmonic polarization rotator. <i>Journal of Optics (United Kingdom)</i> , <b>2014</b> , 16, 105001	1.7	9
123	Investigating several ZrN plasmonic nanostructures and their effect on the absorption of organic solar cells. <i>Journal Physics D: Applied Physics</i> , <b>2017</b> , 50, 385501	3	9
122	Mid-Infrared Plasmonic Power Splitters. <i>IEEE Photonics Technology Letters</i> , <b>2016</b> , 28, 2431-2434	2.2	9
121	Silicon plasmonics at midinfrared using silicon-insulator-silicon platform. <i>Journal of Nanophotonics</i> , <b>2017</b> , 11, 016006	1.1	8

120	All-optical ultrafast control of beaming through a single sub-wavelength aperture in a metal film. <i>Optics Express</i> , <b>2011</b> , 19, 7856-64	3.3	8
119	The Design of Multilayer Optical Coatings Using Convex Optimization. <i>Journal of Lightwave Technology</i> , <b>2007</b> , 25, 1078-1085	4	8
118	Dispersion analysis and engineering of 2D plasmonic waveguides. <i>Journal of Optics (United Kingdom)</i> , <b>2015</b> , 17, 015003	1.7	7
117	Silicon Plasmonics On-Chip Mid-IR Gas Sensor. <i>IEEE Photonics Technology Letters</i> , <b>2018</b> , 30, 931-934	2.2	7
116	Semi-analytical design methodology for large scale metal-insulator-metal waveguide networks. <i>Journal of Optics (United Kingdom)</i> , <b>2014</b> , 16, 065007	1.7	7
115	Realizing vertical light coupling and splitting in nano-plasmonic multilevel circuits. <i>Optics Express</i> , <b>2013</b> , 21, 26311-22	3.3	7
114	Efficient 3D sensitivity analysis of surface plasmon waveguide structures. <i>Optics Express</i> , <b>2008</b> , 16, 16371-81	3.9	7
113	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> , <b>2008</b> , 10, 125301		7
112	Near-Field Mapping of Localized Plasmon Resonances in Metal-Free, Nanomembrane Graphene for Mid-Infrared Sensing Applications. <i>ACS Applied Nano Materials</i> , <b>2018</b> , 1, 6454-6462	5.6	7
111	Design Optimization of Compact Wideband Optical Switch Exploiting Staircase Index MMI. <i>Journal of Lightwave Technology</i> , <b>2009</b> , 27, 80-87	4	6
110	Efficient sensitivity analysis of the time independent Schrödinger equation with application to quantum lasers. <i>Optics Communications</i> , <b>2008</b> , 281, 4459-4463	2	6
109	Design considerations of highly efficient D-shaped plasmonic biosensor. <i>Optical and Quantum Electronics</i> , <b>2019</b> , 51, 1	2.4	6
108	Lithography-Free Fabrication of Crystalline Silicon Nanowires Using Amorphous Silicon Substrate for Wide-Angle Energy Absorption Applications. <i>ACS Applied Nano Materials</i> , <b>2018</b> , 1, 2990-2996	5.6	6
107	Low power hybrid plasmonic microring-on-disks electro-optical modulators. <i>Journal of Nanophotonics</i> , <b>2017</b> , 11, 016014	1.1	5
106	Ultra-fast silicon electro-optic modulator based on ITO-integrated directional coupler. <i>Physica Scripta</i> , <b>2019</b> , 94, 065502	2.6	5
105	Vertical Silicon Nanowires Based Directional Coupler Optical Router. <i>IEEE Photonics Technology Letters</i> , <b>2018</b> , 30, 789-792	2.2	5
104	Optical trapping and manipulation of nanoparticles using a meta plasmonic structure. <i>Journal of Optics (United Kingdom)</i> , <b>2016</b> , 18, 015002	1.7	5
103	Efficient sensitivity analysis approach based on finite element solutions of photonic structures. <i>Optics Communications</i> , <b>2014</b> , 313, 430-435	2	5

102	Spatial beam splitting for fully integrated MEMSinterferometer. <i>Optics Communications</i> , <b>2013</b> , 295, 249-256	5
101	Electro-Optic Plasmonic Modulator With Direct Coupling to Silicon Waveguides. <i>IEEE Photonics Journal</i> , <b>2017</b> , 9, 1-7	1.8 5
100	Cheap and efficient plasmonic solar cell <b>2014</b> ,	5
99	Plasmonic Slot Waveguides with Core Nonlinearity. <i>Plasmonics</i> , <b>2014</b> , 9, 409-413	2.4 5
98	Filter Design Using Multiple Coupled Microcavities. <i>IEEE Photonics Technology Letters</i> , <b>2011</b> , 23, 1160-1162	5
97	Broadband absorption enhancement in organic solar cells using refractory plasmonic ceramics. <i>Journal of Nanophotonics</i> , <b>2017</b> , 11, 016001	1.1 4
96	Long-range all-dielectric plasmonic waveguide in mid-infrared. <i>Applied Physics A: Materials Science and Processing</i> , <b>2017</b> , 123, 1	2.6 4
95	High performance silicon Mach-Zehnder interferometer based photonic modulator <b>2017</b> ,	4
94	Effective modelling of silicon nanowire solar cells <b>2017</b> ,	4
93	Broadband MIR harvester using silicon nanostructures. <i>Scientific Reports</i> , <b>2019</b> , 9, 5829	4.9 4
92	One step fabrication of Silicon nanocones with wide-angle enhanced light absorption. <i>Scientific Reports</i> , <b>2018</b> , 8, 4001	4.9 4
91	Optimal design of intermediate reflector layer in micromorph silicon thin-film solar cells. <i>Journal of Nanophotonics</i> , <b>2016</b> , 10, 046006	1.1 4
90	Sub-Femtojoule Hybrid Plasmonic Optical Modulator. <i>IEEE Photonics Journal</i> , <b>2019</b> , 11, 1-12	1.8 4
89	Broadband Compact Silicon Wire to Silicon Slot Waveguide Orthogonal Bend. <i>Journal of Lightwave Technology</i> , <b>2014</b> , 32, 1399-1405	4 4
88	High Sensitivity Hybrid Plasmonic Rectangular Resonator for Gas Sensing Applications <b>2015</b> ,	4
87	Subwavelength focusing in the infrared range using a meta surface <b>2017</b> ,	3
86	Introduction to the special issue on numerical simulation of optoelectronic devices NUSOD14. <i>Optical and Quantum Electronics</i> , <b>2015</b> , 47, 1291-1292	2.4 3
85	Plasmonic waveguides in mid-infrared using silicon-insulator-silicon <b>2015</b> ,	3

84	Low power compact hybrid plasmonic double microring electro-optical modulator <b>2016,</b>		3
83	Modelling of quantum confinement in optical nanostructures. <i>Journal of Optics (United Kingdom)</i> , <b>2016</b> , 18, 015201	1.7	3
82	Plasmonic slot waveguides with core nonlinearity <b>2013,</b>		3
81	Silicon-on-sapphire (SOS) waveguide modal analysis for mid-infrared applications. <i>Journal of Physics Communications</i> , <b>2017</b> , 1, 035011	1.2	3
80	Design optimization and fabrication of plasmonic nano sensor <b>2014,</b>		3
79	Characteristics and applications of rectangular waveguide in sensing, slow light, and negative refraction <b>2011,</b>		3
78	Hybrid plasmonic electro-optical absorption modulator based on epsilon-near-zero characteristics of ITO <b>2018,</b>		3
77	Free space super focusing using all dielectric hyperbolic metamaterial. <i>Scientific Reports</i> , <b>2020</b> , 10, 115294.9		3
76	Silicon-based nanostructures as surface enhanced Raman scattering substrates <b>2016,</b>		3
75	Plasmonic Biosensors: Review. <i>Biology</i> , <b>2022</b> , 11, 621	4.9	3
74	Broadband absorption enhancement in amorphous Si solar cells using metal gratings and surface texturing <b>2017,</b>		2
73	Optical analysis of Si-tapered nanowires/low band gap polymer hybrid solar cells <b>2017,</b>		2
72	<b>2016,</b>		2
71	Toward automated parasitic extraction of silicon photonics using layout physical verifications. <i>Journal of Optics (United Kingdom)</i> , <b>2016</b> , 18, 085801	1.7	2
70	Organic photovoltaic with various plasmonic nanostructures using titanium nitride <b>2016,</b>		2
69	Silicon plasmonic-integrated sensor <b>2016,</b>		2
68	Silicon ring resonator electro-optical modulator utilizing epsilon-near-zero characteristics of indium tin oxide. <i>Physica Scripta</i> , <b>2019</b> , 94, 125507	2.6	2
67	Plasmonic tunable nano-filter <b>2014,</b>		2

66	Equivalent circuit model for plasmonic slot waveguides networks <b>2013</b> ,		2
65	High performance optical systems using MIM based plasmonic structures. <i>Journal of Physics Communications</i> , <b>2017</b> , 1, 035007	1.2	2
64	Tunable nanoscale-efficient plasmonic demultiplexers <b>2014</b> ,		2
63	Integrated coupled multi-stage plasmonic resonator for on-chip sensing <b>2014</b> ,		2
62	Broadband efficient hybrid plasmonic nano-junctions <b>2012</b> ,		2
61	Closed-form modelling of plasmonic mesh structures <b>2012</b> ,		2
60	Optimized 3D design of an MMI splitter with ion exchange technology <b>2005</b> , 5970, 397		2
59	Electrical characteristics of silicon nanowires solar cells with surface roughness <b>2018</b> ,		2
58	A compact silicon-on-insulator gas sensor <b>2019</b> ,		2
57	Potential of slot waveguides for silicon-based optical interconnects. <i>SPIE Newsroom</i> ,		2
56	VO <sub>2</sub> / ITO Hybrid Plasmonic High Performance Electro-Optical Modulator <b>2018</b> ,		2
55	Filter Response of Feedback Plasmonic Junctions <b>2011</b> ,		2
54	Novel silicon-on-insulator Michelson interferometer for optical filtering and wavelength demultiplexing applications <b>2019</b> ,		2
53	Integrated Lab-on-a-Chip Optical Biosensor Using Ultrathin Silicon Waveguide SOI MMI Device. <i>Sensors</i> , <b>2020</b> , 20,	3.8	2
52	<b>2016</b> ,		2
51	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> , <b>2021</b> , 250, 147084	1.7	2
50	Fiber-optic-based interferometric sensor <b>2017</b> ,		1
49	Silver-decorated silicon nanowires array as surface-enhanced Raman scattering (SERS) substrate <b>2017</b> ,		1



48	Multifunctional TiN nanowires for wide band absorption in organic solar cells <b>2017</b> ,		1
47	Modeling and analysis of scattering from silicon nanoparticles with high excess carriers for MIR spectroscopy <b>2017</b> ,		1
46	Linearized finite-element method solution of the ion-exchange nonlinear diffusion model. <i>Journal of Nanophotonics</i> , <b>2017</b> , 11, 026013	1.1	1
45	Ultra-sensitive silicon-photonic on-chip sensor using microfabrication technology <b>2017</b> ,		1
44	Optical biosensor based on silicon nanowire ridge waveguide <b>2015</b> ,		1
43	Super-focusing using plasmonic lens based on super oscillation effect <b>2015</b> ,		1
42	Shallow silicon sub-wavelength grating waveguide for electro-optical modulation. <i>Optics Communications</i> , <b>2020</b> , 474, 126098	2	1
41	Experimental and DFT investigation of electronic structure and ferromagnetic stable state in pristine and Mn: SnO <sub>2</sub> NPs. <i>Vacuum</i> , <b>2020</b> , 179, 109536	3.7	1
40	Graphene plasmonic electro-absorption modulator <b>2016</b> ,		1
39	Semiconductor plasmonic gas sensor <b>2016</b> ,		1
38	Silicon solar cell using optimized intermediate reflector layer <b>2016</b> ,		1
37	Subwavelength focusing in the infrared range using different metasurfaces. <i>Physica Scripta</i> , <b>2019</b> , 94, 115511	2.6	1
36	Towards 3D plasmonic circuits: controlled coupling to multilevel plasmonic circuits <b>2013</b> ,		1
35	Submicron-integrated plasmonic power splitter <b>2014</b> ,		1
34	Analysis of plasmonic effects in silicon nanoholes. <i>Optical Engineering</i> , <b>2014</b> , 53, 107103	1.1	1
33	Efficient Design of Coupled Microcavities at Optical Frequencies. <i>Micromachines</i> , <b>2012</b> , 3, 204-217	3.3	1
32	Efficient material parameters estimation with terahertz time-domain spectroscopy <b>2011</b> ,		1
31	Efficient sensitivity analysis of optical structures using Finite Element Method <b>2012</b> ,		1

30	A perturbation approach for the design of coupled resonator optical waveguides (CROWs) <b>2012,</b>		1
29	Integrated slotted ring resonator at mid-infrared for on-chip sensing applications. <i>Journal of Nanophotonics</i> , <b>2019</b> , 13, 1	1.1	1
28	Hybrid plasmonic electro-optical absorption modulator based on phase change characteristics of vanadium-dioxide. <i>Journal of Nanophotonics</i> , <b>2019</b> , 13, 1	1.1	1
27	Solving the nonlinear diffusion model of the ion exchange process using finite element method <b>2017,</b>		1
26	An all silicon-based metamaterial for mid-IR energy harvesting <b>2018,</b>		1
25	Gas sensing devices using doped silicon material at mid-infrared region <b>2019,</b>		1
24	Broadband Compact Si Wire to Slot Waveguide Couplers <b>2013,</b>		1
23	Leap-frog-based BPM (LF-BPM) method for solving nanophotonic structures <b>2018,</b>		1
22	High-performance optical modulator using ultra-thin silicon waveguide in SOI technology <b>2018,</b>		1
21	Mid-infrared plasmonic gas sensor <b>2018,</b>		1
20	silicon-based plasmonic nanoantennas <b>2019,</b>		1
19	All-Silicon Directional Coupler Electro-Optic Modulator Utilizing Transparent Conducting Oxides <b>2017,</b>		1
18	Silicon Nanowires with controlled diameter for energy conversion applications <b>2013,</b>		1
17	High efficiency compact Bragg sensor <b>2016,</b>		1
16	Mid infrared applications of silicon thermoplasmonics <b>2016,</b>		1
15	Dispersion engineering of silicon-on-sapphire (SOS) waveguides for mid-infrared applications <b>2016,</b>		1
14	Compact Gas Sensor Using Silicon-on-Insulator Loop-Terminated Mach-Zehnder Interferometer. <i>Photonics</i> , <b>2022</b> , 9, 8	2.2	1
13	Broad-band Organic/Silicon Nanowire Hybrid Composites for Solar Energy Applications. <i>ACS Applied Nano Materials</i> , <b>2020</b> , 3, 7446-7453	5.6	0

12	Infrared subwavelength focusing metasurfaces for harvesting heat from the Earth's back radiation. <i>Physica Scripta</i> , <b>2020</b> , 95, 035505	2.6	○
11	Extraordinary optical transmission in silicon nanoholes. <i>Scientific Reports</i> , <b>2021</b> , 11, 21546	4.9	○
10	A compact 100 GHz femtojoule silicon-organic hybrid modulator based on a novel Mach-Zehnder interferometer design. <i>Journal of Optics (United Kingdom)</i> , <b>2021</b> , 23, 095801	1.7	○
9	Modelling, characterization, and applications of silicon on insulator loop terminated asymmetric Mach-Zehnder interferometer.. <i>Scientific Reports</i> , <b>2022</b> , 12, 3598	4.9	○
8	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> , <b>2022</b> , 904, 164020	5.7	
7	The FDTD Method: Essences, Evolutions, and Applications to Nano-Optics and Quantum Physics <b>2017</b> , 37-82		
6	Finite-Difference Time-Domain Method in Photonics and Nanophotonics <b>2017</b> , 1-36		
5	Accurate and efficient leap-frog beam propagation method for modeling micro and nanophotonic structures. <i>Applied Optics</i> , <b>2020</b> , 59, 6881-6887	1.7	
4	Electronic structure and spontaneous magnetization in Mn-doped SnO <sub>2</sub> . <i>Journal of Applied Physics</i> , <b>2020</b> , 128, 045705	2.5	
3	Optical modulator using ultra-thin silicon waveguide in SOI hybrid technology. <i>Optical and Quantum Electronics</i> , <b>2022</b> , 54, 1	2.4	
2	Effects of Nanosized PbO and MgO, Rolling, and Sintering Time on Crack and Current Density of Bi <sub>1.6</sub> Pb <sub>0.4</sub> Sr <sub>2</sub> Ca <sub>2</sub> Cu <sub>3</sub> O <sub>10</sub> /Ag Superconductor Tapes. <i>Journal of Superconductivity and Novel Magnetism</i> , 1	1.5	
1	Photon harvesting and light trapping in pentacene and PTCDI-C13H <sub>27</sub> for organic solar cell application. <i>Optik</i> , <b>2022</b> , 258, 168931	2.5	