

Abu Bakar Bin Mohammad

List of Publications by Citations

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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.

46
papers

583
citations

13
h-index

22
g-index

62
ext. papers

743
ext. citations

2.2
avg, IF

3.77
L-index

#	Paper	IF	Citations
46	Recent progress in optical chemical sensors. <i>Sensors</i> , 2012 , 12, 16522-56	3.8	80
45	Recent development on time and wavelength-division multiplexed passive optical network (TWDM-PON) for next-generation passive optical network stage 2 (NG-PON2). <i>Optical Switching and Networking</i> , 2015 , 15, 53-66	1.6	56
44	A survey on access technologies for broadband optical and wireless networks. <i>Journal of Network and Computer Applications</i> , 2014 , 41, 459-472	7.9	50
43	MMI-MZI Polymer Thermo-Optic Switch With a High Refractive Index Contrast. <i>Journal of Lightwave Technology</i> , 2011 , 29, 171-178	4	47
42	Enhancement of free space optical link in heavy rain attenuation using multiple beam concept. <i>Optik</i> , 2013 , 124, 4798-4801	2.5	46
41	Fabrication and characterization of polymer thermo-optic switch based on mmi coupler. <i>Optics Communications</i> , 2011 , 284, 1181-1185	2	21
40	Thermo-optic multimode interference switches with air and silicon trenches. <i>Optics Communications</i> , 2008 , 281, 4653-4657	2	21
39	D-Shaped Polarization Maintaining Fiber Sensor for Strain and Temperature Monitoring. <i>Sensors</i> , 2016 , 16,	3.8	20
38	Evaluation of a 1 Gb/s Free Space Optic system in typical Malaysian weather 2012 ,		19
37	Spectral efficient hybrid wireless optical broadband access network (WOBAN) based on transmission of wireless MIMO OFDM signals over WDM PON. <i>Optics Communications</i> , 2012 , 285, 4059-4067	2	18
36	2.5Gb/s hybrid WDM/TDM PON using radio over fiber technique. <i>Optik</i> , 2013 , 124, 3678-3681	2.5	15
35	Hybrid WDM/multibeam free-space optics for multigigabit access network. <i>Photonic Network Communications</i> , 2015 , 29, 138-145	1.7	15
34	Review on system architectures for the millimeter-wave generation techniques for RoF communication link 2008 ,		13
33	Single-mode D-shaped optical fiber sensor for the refractive index monitoring of liquid. <i>Journal of Modern Optics</i> , 2016 , 63, 750-755	1.1	12
32	Determination of rain attenuation parameters for free space optical link in tropical rain. <i>Optik</i> , 2014 , 125, 1575-1578	2.5	12
31	Crosstalk improvement of a thermo-optic polymer waveguide MZI/MMI switch. <i>Optics Communications</i> , 2008 , 281, 5764-5767	2	12
30	Physical layer performance analysis of hybrid and stacked TDM/WDM 40G-PON for next generation PON. <i>Optik</i> , 2014 , 125, 6194-6197	2.5	10

29	Analysis of physical layer performance of hybrid optical wireless access network. <i>Optics Communications</i> , 2011 , 284, 4894-4899	2	10
28	Multimode interference wavelength multi/demultiplexer for 1310 and 1550 nm operation based on BCB 4024-40 photodefinable polymer. <i>Optics Communications</i> , 2007 , 273, 383-388	2	9
27	Tropical temperature and humidity modeling for free space optical link. <i>Journal of Optics (India)</i> , 2016 , 45, 87-91	1.3	7
26	A thermo-optic multimode interference switch structure based on vinyltriethoxysilane (VTES) hybrid organic/organic sol-gel. <i>Optik</i> , 2013 , 124, 1532-1535	2.5	7
25	New RoF-PON architecture using polarization multiplexed wireless MIMO signals for NG-PON. <i>Optics Communications</i> , 2015 , 344, 55-64	2	7
24	Optimization of FSO system in tropical weather using multiple beams 2014 ,		7
23	A new nonblocking photonic switching network		7
22	Polarization multiplexing of two MIMO RoF signals and one baseband signal over a single wavelength. <i>Optics and Laser Technology</i> , 2016 , 76, 70-78	4.2	6
21	A novel optical single-sideband frequency translation technique for transmission of wireless MIMO signals over fiber-wireless system. <i>Optics and Laser Technology</i> , 2013 , 47, 347-354	4.2	6
20	Surface roughness and the sensitivity of D-shaped optical fibre sensors. <i>Journal of Modern Optics</i> , 2019 , 66, 1244-1251	1.1	5
19	Single and multiple transceiver simulation modules for free-space optical channel in tropical malaysian weather 2013 ,		5
18	A RIDGE WAVEGUIDE FOR THERMO-OPTIC APPLICATION. <i>Progress in Electromagnetics Research Letters</i> , 2009 , 6, 1-9	0.5	5
17	A Novel Thermo-optic Polymer Switch Based on Directional Coupler Structure. <i>American Journal of Applied Sciences</i> , 2008 , 5, 1552-1557	0.8	5
16	Optical cross couplers based on wet-etch processing of benzocyclobutene polymer. <i>Optical Materials</i> , 2010 , 32, 703-706	3.3	4
15	A space dilated lightwave network - a new approach		4
14	A NEW STRUCTURE OF MMI POLYMER THERMO-OPTIC SWITCH WITH A HIGH REFRACTIVE INDEX CONTRAST. <i>Progress in Electromagnetics Research B</i> , 2010 , 24, 103-120	0.7	3
13	Polymeric Optical Splitter Based on Multimode Interference Mechanism 2006 ,		3
12	Fiber-wireless (FiWi) access network: Performance evaluation and scalability analysis of the physical layer. <i>Optik</i> , 2014 , 125, 5334-5338	2.5	2

11	The effect of elastic fatigue on the output transmission of a Mach-Zehnder interferometer comb filter. <i>Optical Fiber Technology</i> , 2014 , 20, 299-302	2.4	2
10	A novel optical single-sideband frequency translation technique for transmission of wireless MIMO signals over optical fiber 2012 ,		2
9	Analytical modeling for determination of pull-in voltage for an electrostatic actuated MEMS cantilever beam		2
8	Heater optimization for polymer in silica optical switch. <i>Optik</i> , 2013 , 124, 4218-4222	2.5	1
7	Enabling optical and wireless broadband access technologies 2012 ,		1
6	Polymer Based Directional Coupler Thermo-optic Optical Switch. <i>Jurnal Teknologi (Sciences and Engineering)</i> , 2012 ,	1.2	1
5	Wide range electrostatic MEMS Fabry Perot optical tunable filter: modelling an electrostatic and mechanic beam deflection. <i>Microsystem Technologies</i> , 2011 , 17, 19-25	1.7	1
4	Performance analysis of DCO OFDM and DCO WOFDM systems in MMF optical links 2011 ,		1
3	Beam propagation modelling of the digital response in cosine S-bend waveguide branch 2008 ,		1
2	WIDE RANGE OF ELECTROSTATIC ACTUATION MEMS FPOTF. <i>Progress in Electromagnetics Research C</i> , 2009 , 9, 155-169	0.9	1
1	Thermal effect on the output transmission of single-core fiber Comb filter. <i>Journal of Modern Optics</i> , 2014 , 61, 1613-1620	1.1	