

# Abu Bakar Bin Mohammad

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3182388/publications.pdf>

Version: 2024-02-01

62  
papers

843  
citations

566801

15  
h-index

552369

26  
g-index

62  
all docs

62  
docs citations

62  
times ranked

856  
citing authors

#	ARTICLE	IF	CITATIONS
1	Recent Progress in Optical Chemical Sensors. Sensors, 2012, 12, 16522-16556.	2.1	103
2	Recent development on time and wavelength-division multiplexed passive optical network (TWDM-PON) for next-generation passive optical network stage 2 (NG-PON2). Optical Switching and Networking, 2015, 15, 53-66.	1.2	79
3	Enhancement of free space optical link in heavy rain attenuation using multiple beam concept. Optik, 2013, 124, 4798-4801.	1.4	69
4	A survey on access technologies for broadband optical and wireless networks. Journal of Network and Computer Applications, 2014, 41, 459-472.	5.8	67
5	MMI-MZI Polymer Thermo-Optic Switch With a High Refractive Index Contrast. Journal of Lightwave Technology, 2011, 29, 171-178.	2.7	54
6	Evaluation of a 1 Gb/s Free Space Optic system in typical Malaysian weather. , 2012, , .		29
7	D-Shaped Polarization Maintaining Fiber Sensor for Strain and Temperature Monitoring. Sensors, 2016, 16, 1505.	2.1	29
8	Fabrication and characterization of polymer thermo-optic switch based on mmi coupler. Optics Communications, 2011, 284, 1181-1185.	1.0	28
9	Hybrid WDM/multibeam free-space optics for multigigabit access network. Photonic Network Communications, 2015, 29, 138-145.	1.4	28
10	Thermo-optic multimode interference switches with air and silicon trenches. Optics Communications, 2008, 281, 4653-4657.	1.0	23
11	Spectral efficient hybrid wireless optical broadband access network (WOBAN) based on transmission of wireless MIMO OFDM signals over WDM PON. Optics Communications, 2012, 285, 4059-4067.	1.0	23
12	Review on system architectures for the millimeter-wave generation techniques for RoF communication link. , 2008, , .		20
13	2.5Gb/s hybrid WDM/TDM PON using radio over fiber technique. Optik, 2013, 124, 3678-3681.	1.4	20
14	Determination of rain attenuation parameters for free space optical link in tropical rain. Optik, 2014, 125, 1575-1578.	1.4	18
15	Optimization of FSO system in tropical weather using multiple beams. , 2014, , .		17
16	Crosstalk improvement of a thermo-optic polymer waveguide MZI-MMI switch. Optics Communications, 2008, 281, 5764-5767.	1.0	16
17	Multimode interference wavelength multi/demultiplexer for 1310 and 1550nm operation based on BCB 4024-40 photodefinable polymer. Optics Communications, 2007, 273, 383-388.	1.0	15
18	Physical layer performance analysis of hybrid and stacked TDM-WDM 40G-PON for next generation PON. Optik, 2014, 125, 6194-6197.	1.4	15

#	ARTICLE	IF	CITATIONS
19	Single-mode D-shaped optical fiber sensor for the refractive index monitoring of liquid. Journal of Modern Optics, 2016, 63, 750-755.	0.6	14
20	Analytical modeling for determination of pull-in voltage for an electrostatic actuated MEMS cantilever beam. , 0, , .		13
21	Analysis of physical layer performance of hybrid opticalâ€“wireless access network. Optics Communications, 2011, 284, 4894-4899.	1.0	12
22	Single and multiple transceiver simulation modules for free-space optical channel in tropical malaysian weather. , 2013, , .		12
23	New RoF-PON architecture using polarization multiplexed wireless MIMO signals for NG-PON. Optics Communications, 2015, 344, 55-64.	1.0	12
24	Surface roughness and the sensitivity of D-shaped optical fibre sensors. Journal of Modern Optics, 2019, 66, 1244-1251.	0.6	12
25	A new nonblocking photonic switching network. , 0, , .		10
26	A novel optical single-sideband frequency translation technique for transmission of wireless MIMO signals over fiber-wireless system. Optics and Laser Technology, 2013, 47, 347-354.	2.2	10
27	Polarization multiplexing of two MIMO RoF signals and one baseband signal over a single wavelength. Optics and Laser Technology, 2016, 76, 70-78.	2.2	10
28	Tropical temperature and humidity modeling for free space optical link. Journal of Optics (India), 2016, 45, 87-91.	0.8	8
29	A Novel Thermo-optic Polymer Switch Based on Directional Coupler Structure. American Journal of Applied Sciences, 2008, 5, 1552-1557.	0.1	8
30	A space dilated lightwave network - a new approach. , 0, , .		7
31	Optical cross couplers based on wet-etch processing of benzocyclobutene polymer. Optical Materials, 2010, 32, 703-706.	1.7	7
32	A thermo-optic multimode interference switch structure based on vinyltriethoxysilane (VTES) hybrid organicâ€“inorganic solâ€“gel. Optik, 2013, 124, 1532-1535.	1.4	7
33	Polymeric Optical Splitter Based on Multimode Interference Mechanism. , 2006, , .		5
34	A RIDGE WAVEGUIDE FOR THERMO-OPTIC APPLICATION. Progress in Electromagnetics Research Letters, 2009, 6, 1-9.	0.4	5
35	WIDE RANGE OF ELECTROSTATIC ACTUATION MEMS FPOTF. Progress in Electromagnetics Research C, 2009, 9, 155-169.	0.6	4
36	Wide range electrostatic MEMS Fabry Perot optical tunable filter: modelling an electrostatic and mechanic beam deflection. Microsystem Technologies, 2011, 17, 19-25.	1.2	4

#	ARTICLE	IF	CITATIONS
37	Polymer material for optical devices application. , 0, , .		3
38	Optical front-end receiver configuration for 30 GHz millimeter-wave signal Radio over Fiber system. , 2008, , .		3
39	A NEW STRUCTURE OF MMI POLYMER THERMO-OPTIC SWITCH WITH A HIGH REFRACTIVE INDEX CONTRAST. Progress in Electromagnetics Research B, 2010, 24, 103-120.	0.7	3
40	Polymer Based Directional Coupler Thermo-optic Optical Switch. Jurnal Teknologi (Sciences and) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 62	0.3	3
41	Analysis of mode fields in optical waveguides. , 0, , .		2
42	A novel optical single-sideband frequency translation technique for transmission of wireless MIMO signals over optical fiber. , 2012, , .		2
43	Enabling optical and wireless broadband access technologies. , 2012, , .		2
44	Heater optimization for polymer in silica optical switch. Optik, 2013, 124, 4218-4222.	1.4	2
45	Cost-effective 2.5 Gb/s bidirectional WDM PON using single optical source at the central office. , 2013, , .		2
46	Fiber-wireless (FiWi) access network: Performance evaluation and scalability analysis of the physical layer. Optik, 2014, 125, 5334-5338.	1.4	2
47	The effect of elastic fatigue on the output transmission of a Mach-Zehnder interferometer comb filter. Optical Fiber Technology, 2014, 20, 299-302.	1.4	2
48	Beam propagation modelling of the digital response in cosine S-bend waveguide branch. , 2008, , .		1
49	FEM simulation on MEMS FP OTF using Al metallic mirror. , 2008, , .		1
50	Performance assessment of a 2 Gb/s hybrid optical-wireless access network. , 2010, , .		1
51	Performance analysis of DCO OFDM and DCO WOFDM systems in MMF optical links. , 2011, , .		1
52	Gain simulation of erbium-doped fiber amplifier. , 0, , .		0
53	A multicast photonic switching network. , 0, , .		0
54	A 4-4 space dilated lightwave network - reducing crosstalk new approach. , 0, , .		0

#	ARTICLE	IF	CITATIONS
55	Fabrication of polymeric optical waveguides by B-staged bisbenzocyclobutene (BCB). , 2004, , .		0
56	Low Power Consumption Thermo-optic Switch Using Polymers. , 0, , .		0
57	High capacity and scalable WDM-PON architecture using PON add/drop multiplexer. Proceedings of SPIE, 2007, 6784, 548.	0.8	0
58	New PON add/drop multiplexer to support next-generation PON. , 2007, , .		0
59	The effect of time slot parameters on slotted optical burst switched networks. , 2011, , .		0
60	Electro-mechanic modeling of dual membrane mems Fabry Perot Optical Tunable Filter using composite beam approach. , 2011, , .		0
61	Wireless signals transport schemes in fiber wireless systems. , 2013, , .		0
62	Thermal effect on the output transmission of single-core fiber Comb filter. Journal of Modern Optics, 2014, 61, 1613-1620.	0.6	0