

Abu Bakar Bin Mohammad

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.

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 | Surface roughness and the sensitivity of D-shaped optical fibre sensors. <i>Journal of Modern Optics</i> , 2019 , 66, 1244-1251 | 1.1 | 5 |
| 45 | 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 |
| 44 | 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 |
| 43 | Tropical temperature and humidity modeling for free space optical link. <i>Journal of Optics (India)</i> , 2016 , 45, 87-91 | 1.3 | 7 |
| 42 | D-Shaped Polarization Maintaining Fiber Sensor for Strain and Temperature Monitoring. <i>Sensors</i> , 2016 , 16, | 3.8 | 20 |
| 41 | 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 |
| 40 | New RoF-PON architecture using polarization multiplexed wireless MIMO signals for NG-PON. <i>Optics Communications</i> , 2015 , 344, 55-64 | 2 | 7 |
| 39 | Hybrid WDM/multibeam free-space optics for multigigabit access network. <i>Photonic Network Communications</i> , 2015 , 29, 138-145 | 1.7 | 15 |
| 38 | Thermal effect on the output transmission of single-core fiber Comb filter. <i>Journal of Modern Optics</i> , 2014 , 61, 1613-1620 | 1.1 | |
| 37 | Fiber-wireless (FiWi) access network: Performance evaluation and scalability analysis of the physical layer. <i>Optik</i> , 2014 , 125, 5334-5338 | 2.5 | 2 |
| 36 | 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 |
| 35 | Determination of rain attenuation parameters for free space optical link in tropical rain. <i>Optik</i> , 2014 , 125, 1575-1578 | 2.5 | 12 |
| 34 | 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 |
| 33 | 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 |
| 32 | Optimization of FSO system in tropical weather using multiple beams 2014 , | | 7 |
| 31 | 2.5Gb/s hybrid WDM/TDM PON using radio over fiber technique. <i>Optik</i> , 2013 , 124, 3678-3681 | 2.5 | 15 |
| 30 | 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 |

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| 29 | Single and multiple transceiver simulation modules for free-space optical channel in tropical malaysian weather 2013 , | | 5 |
| 28 | Heater optimization for polymer in silica optical switch. <i>Optik</i> , 2013 , 124, 4218-4222 | 2.5 | 1 |
| 27 | 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 |
| 26 | Enhancement of free space optical link in heavy rain attenuation using multiple beam concept. <i>Optik</i> , 2013 , 124, 4798-4801 | 2.5 | 46 |
| 25 | Recent progress in optical chemical sensors. <i>Sensors</i> , 2012 , 12, 16522-56 | 3.8 | 80 |
| 24 | Enabling optical and wireless broadband access technologies 2012 , | | 1 |
| 23 | 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 |
| 22 | Evaluation of a 1 Gb/s Free Space Optic system in typical Malaysian weather 2012 , | | 19 |
| 21 | Polymer Based Directional Coupler Thermo-optic Optical Switch. <i>Jurnal Teknologi (Sciences and Engineering)</i> , 2012 , | 1.2 | 1 |
| 20 | A novel optical single-sideband frequency translation technique for transmission of wireless MIMO signals over optical fiber 2012 , | | 2 |
| 19 | MMI-MZI Polymer Thermo-Optic Switch With a High Refractive Index Contrast. <i>Journal of Lightwave Technology</i> , 2011 , 29, 171-178 | 4 | 47 |
| 18 | Analysis of physical layer performance of hybrid optical wireless access network. <i>Optics Communications</i> , 2011 , 284, 4894-4899 | 2 | 10 |
| 17 | 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 |
| 16 | Fabrication and characterization of polymer thermo-optic switch based on mmi coupler. <i>Optics Communications</i> , 2011 , 284, 1181-1185 | 2 | 21 |
| 15 | Performance analysis of DCO OFDM and DCO WOFDM systems in MMF optical links 2011 , | | 1 |
| 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 | Optical cross couplers based on wet-etch processing of benzocyclobutene polymer. <i>Optical Materials</i> , 2010 , 32, 703-706 | 3.3 | 4 |
| 12 | A RIDGE WAVEGUIDE FOR THERMO-OPTIC APPLICATION. <i>Progress in Electromagnetics Research Letters</i> , 2009 , 6, 1-9 | 0.5 | 5 |

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|----|---|-----|----|
| 11 | WIDE RANGE OF ELECTROSTATIC ACTUATION MEMS FPOTF. <i>Progress in Electromagnetics Research C</i> , 2009 , 9, 155-169 | 0.9 | 1 |
| 10 | Review on system architectures for the millimeter-wave generation techniques for RoF communication link 2008 , | | 13 |
| 9 | Beam propagation modelling of the digital response in cosine S-bend waveguide branch 2008 , | | 1 |
| 8 | Thermo-optic multimode interference switches with air and silicon trenches. <i>Optics Communications</i> , 2008 , 281, 4653-4657 | 2 | 21 |
| 7 | Crosstalk improvement of a thermo-optic polymer waveguide MZI/MZI switch. <i>Optics Communications</i> , 2008 , 281, 5764-5767 | 2 | 12 |
| 6 | 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 |
| 5 | 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 |
| 4 | Polymeric Optical Splitter Based on Multimode Interference Mechanism 2006 , | | 3 |
| 3 | A space dilated lightwave network - a new approach | | 4 |
| 2 | Analytical modeling for determination of pull-in voltage for an electrostatic actuated MEMS cantilever beam | | 2 |
| 1 | A new nonblocking photonic switching network | | 7 |