Fatima Gunning

List of Publications by Year
in descending order

33 papers	1,010 citations	567281 15 h-index	526287 27 g-index
33 all docs	33 docs citations	33 times ranked	867 citing authors

#	Article	IF	Citations
1	Gain-switched dual frequency comb at 2 Âµm. Optics Express, 2022, 30, 5213.	3.4	5
2	Stable injection locking with slotted Fabryâ€“Perot lasers at 2 Î¼m. JPhys Photonics, 2019, 1, 015005.	4.6	0
3	Key enabling technologies for optical communications at 2000â€‰â€‰nm. Applied Optics, 2018, 57, E64.	1.8	31
4	40 Gb/s WDM Transmission Over 1.15-km HC-PBGF Using an InP-Based Mach-Zehnder Modulator at 2 Î¼m. Journal of Lightwave Technology, 2016, 34, 1706-1711.	4.6	30
5	Impact of DWDM at 50GHz spacing in the 2Âµm waveband. , 2016, , .		2
6	InGaAs Surface Normal Photodiode for 2 <inline-formula> <tex-math notation="LaTeX">$mu ext{m}$ </tex-math></inline-formula> Optical Communication Systems. IEEE Photonics Technology Letters, 2015, 27, 1469-1472.	2.5	15
7	100 Gbit/s WDM transmission at 2 Âµm: transmission studies in both low-loss hollow core photonic bandgap fiber and solid core fiber. Optics Express, 2015, 23, 4946.	3.4	111
8	10 Gb/s InP-based Mach-Zehnder modulator for operation at 2 Î¼m wavelengths. Optics Express, 2015, 23, 10905.	3.4	13
9	Dense WDM transmission at 2â€‰â€‰Î¼m enabled by an arrayed waveguide grating. Optics Letters, 2015, 40, 3308.	3.3	42
10	Practical and cost-effective high-fidelity optical carrier dissemination using coherent communication techniques. Optics Express, 2015, 23, 21678.	3.4	3
11	InP-Based Active and Passive Components for Communication Systems at 2 Î¼m. Journal of Lightwave Technology, 2015, 33, 971-975.	4.6	44
12	Experimental Demonstration of Improved Equalization Algorithm for IM/DD Fast OFDM. IEEE Photonics Technology Letters, 2015, 27, 1780-1783.	2.5	9
13	Dynamic characteristics of InGaAs/InP multiple quantum well discrete mode laser diodes emitting at 2 Î¼m. Electronics Letters, 2014, 50, 948-950.	1.0	8
14	Four-wave mixing for clock recovery of phase modulated optical OFDM superchannel. Optics Express, 2014, 22, 7007.	3.4	6
15	SOAs for Phase-Based Optical Signal Processing. , 2014, , .		1
16	Expressions for the nonlinear transmission performance of multi-mode optical fiber. Optics Express, 2013, 21, 22834.	3.4	33
17	Demonstration of amplified data transmission at 2 Âµm in a low-loss wide bandwidth hollow core photonic bandgap fiber. Optics Express, 2013, 21, 28559.	3.4	112
18	Butterfly packaged highâ€speed and low leakage InGaAs quantum well photodiode for 2000nm wavelength systems. Electronics Letters, 2013, 49, 281-282.	1.0	24

#	Article	IF	Citations
19	Hollow core photonic crystal fiber based viscometer with Raman spectroscopy. Journal of Chemical Physics, 2012, 137, 224504.	3.0	8
20	Comparison of Frequency Symmetric Signal Generation From a BPSK Input Using Fiber and Semiconductor-Based Nonlinear Elements. IEEE Photonics Technology Letters, 2011, 23, 651-653.	2.5	7
21	Towards a Practical Implementation of Coherent WDM: Analytical, Numerical, and Experimental Studies. IEEE Photonics Journal, 2010, 2, 833-847.	2.0	19
22	PMD tolerance of 288 Gbit/s Coherent WDM and transmission over unrepeatered 124 km of field-installed single mode optical fiber. Optics Express, 2010, 18, 13908.	3.4	3
23	Unrepeatered field transmission of 2 Tbit/s multi-banded coherent WDM over 124 km of installed SMF. Optics Express, 2010, 18, 24745.	3.4	23
24	Practical implementation of coherent WDM. , 2009, , .		1
25	Multi-wavelength source using low drive-voltage amplitude modulators for optical communications. Optics Express, 2007, 15, 2981.	3.4	106
26	Dispersion tolerance of coherent WDM. IEEE Photonics Technology Letters, 2006, 18, 1338-1340.	2.5	27
27	Coherent WDM, toward > 1 bit/s/Hz information spectral density. , 2005, , .		4
28	Generation of a widely spaced optical frequency comb using an amplitude modulator pair. , 2005, , .		3
29	Spectral density enhancement using coherent WDM. IEEE Photonics Technology Letters, 2005, 17, 504-506.	2.5	213
30	Poling of a channel waveguide. Optics Express, 2003, 11, 3041.	3.4	15
31	Mach-Zehnder interferometer using single standard telecommunication optical fibre. Electronics Letters, 2001, 37, 1440.	1.0	2
32	Inducing a large second-order optical nonlinearity in soft glasses by poling. Applied Physics Letters, 1998, 72, 3252-3254.	3.3	59
33	Etching of Silica Glass under Electric Fields. Physical Review Letters, 1997, 78, 2172-2175.	7.8	31