

John E Mitchell

List of Publications by Year in descending order

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Version: 2024-02-01

127
papers

1,630
citations

304743

22
h-index

361022

35
g-index

131
all docs

131
docs citations

131
times ranked

1496
citing authors

#	ARTICLE	IF	CITATIONS
1	Radio-over-fiber transport for the support of wireless broadband services [Invited]. Journal of Optical Networking, 2009, 8, 156.	2.5	105
2	A 10-Gb/s 1024-Way-Split 100-km Long-Reach Optical-Access Network. Journal of Lightwave Technology, 2007, 25, 685-693.	4.6	96
3	Long-Reach Optical Access Technologies. IEEE Network, 2007, 21, 5-11.	6.9	94
4	Integrated Wireless Backhaul Over Optical Access Networks. Journal of Lightwave Technology, 2014, 32, 3373-3382.	4.6	85
5	High-Dynamic-Range Wireless-Over-Fiber Link Using Feedforward Linearization. Journal of Lightwave Technology, 2007, 25, 3274-3282.	4.6	58
6	Problem-Based Learning in Communication Systems: Student Perceptions and Achievement. IEEE Transactions on Education, 2010, 53, 587-594.	2.4	55
7	Performance of OFDM at 5.8GHz using radio over fibre link. Electronics Letters, 2004, 40, 1353.	1.0	52
8	Effective-SNR estimation for wireless sensor network using Kalman filter. Ad Hoc Networks, 2013, 11, 944-958.	5.5	43
9	Bandwidth Compressed Waveform for 60-GHz Millimeter-Wave Radio Over Fiber Experiment. Journal of Lightwave Technology, 2016, 34, 3458-3465.	4.6	43
10	Performance analysis of interferometric noise due to unequally powered interferers in optical networks. Journal of Lightwave Technology, 2005, 23, 1692-1703.	4.6	39
11	Performance Impairments in Single-Mode Radio-Over-Fiber Systems Due to MAC Constraints. Journal of Lightwave Technology, 2008, 26, 2540-2548.	4.6	39
12	Networking and application interface technology for wireless sensor network surveillance and monitoring. , 2011, 49, 90-97.		38
13	Architecture to integrate multiple PONs with long reach DWDM backhaul. IEEE Journal on Selected Areas in Communications, 2009, 27, 126-133.	14.0	37
14	Faculty wide curriculum reform: the integrated engineering programme. European Journal of Engineering Education, 2021, 46, 48-66.	2.3	36
15	How authentic does authentic learning have to be?. Higher Education Pedagogies, 2018, 3, 495-509.	3.5	35
16	Kalman interpolation filter for channel estimation of LTE downlink in high-mobility environments. Eurasip Journal on Wireless Communications and Networking, 2012, 2012, .	2.4	34
17	Remote Assessment of Cultural Heritage Environments with Wireless Sensor Array Networks. Sensors, 2014, 14, 8779-8793.	3.8	32
18	Simple 60-GHz MB-OFDM Ultrawideband RoF System Based on Remote Heterodyning. IEEE Photonics Technology Letters, 2013, 25, 268-271.	2.5	31

#	ARTICLE	IF	CITATIONS
19	Demonstration of Wireless Backhauling Over Long-Reach PONs. Journal of Lightwave Technology, 2012, 30, 811-817.	4.6	28
20	Case Study of the Introduction of Problem-Based Learning in Electronic Engineering. International Journal of Electrical Engineering and Education, 2008, 45, 131-143.	0.8	26
21	Your WiFi is leaking: What do your mobile apps gossip about you?. Future Generation Computer Systems, 2018, 80, 546-557.	7.5	26
22	Dynamic wavefront shaping with an acousto-optic lens for laser scanning microscopy. Optics Express, 2016, 24, 6283.	3.4	25
23	Spectrally Efficient WDM Nyquist Pulse-Shaped Subcarrier Modulation Using a Dual-Drive Mach-Zehnder Modulator and Direct Detection. Journal of Lightwave Technology, 2016, 34, 1158-1165.	4.6	24
24	Experimental demonstration of multi-Gbps multi sub-bands FBMC transmission in mm-wave radio over a fiber system. Optics Express, 2018, 26, 7306.	3.4	23
25	Photonic Integrated Microwave Phase Shifter up to the mm-Wave Band With Fast Response Time in Silicon-on-Insulator Technology. Journal of Lightwave Technology, 2018, 36, 4494-4500.	4.6	21
26	Assessing the sustainability literacy of the Nigerian engineering community. Journal of Cleaner Production, 2019, 212, 666-676.	9.3	21
27	Tunable THz Signal Generation and Radio-Over-Fiber Link Based on an Optoelectronic Oscillator-Driven Optical Frequency Comb. Journal of Lightwave Technology, 2020, 38, 5240-5247.	4.6	18
28	Investigation of a SMF-MMF Link for a Remote Heterodyne 60-GHz OFDM RoF Based Gigabit Wireless Access Topology. Journal of Lightwave Technology, 2014, 32, 3645-3653.	4.6	17
29	Optical frequency tripling with improved suppression and sideband selection. Optics Express, 2011, 19, B459.	3.4	16
30	A fuzzy inference system (FIS) to evaluate the security readiness of cloud service providers. Journal of Cloud Computing: Advances, Systems and Applications, 2020, 9, .	3.9	16
31	MAC Constraints on the Distribution of 802.11 using Optical Fibre. , 2006, , .		15
32	Radio over fiber access network architecture employing reflective semiconductor optical amplifiers. , 2007, , .		15
33	Staff perceptions of implementing project-based learning in engineering education. European Journal of Engineering Education, 2020, 45, 349-362.	2.3	15
34	Transmission of 37.6-GHz QPSK wireless data over 12.8-km fiber with remote Millimeter-wave local oscillator delivery using a bi-directional SOA in a full-duplex system with 2.2-km CWDM fiber ring architecture. IEEE Photonics Technology Letters, 2005, 17, 1989-1991.	2.5	14
35	Optical network architectures for dynamic reconfiguration of full duplex, multiwavelength, radio over fiber. Journal of Optical Networking, 2006, 5, 435.	2.5	14
36	Experimental Upstream Demonstration of a Long Reach Wavelength-Converting PON with DWDM Backhaul. , 2007, , .		13

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37	Techniques for Radio over Fiber Networks. , 2006, , .		11
38	Wireless Communication Networks for Gas Turbine Engine Testing. International Journal of Distributed Sensor Networks, 2012, 8, 212876.	2.2	11
39	Philosophies and pedagogies that shape an integrated engineering programme. Higher Education Pedagogies, 2019, 4, 180-196.	3.5	11
40	Assessing the sustainability content of the Nigerian engineering curriculum. International Journal of Sustainability in Higher Education, 2019, 20, 590-613.	3.1	11
41	Simultaneous chromatic dispersion, polarization-mode-dispersion and OSNR monitoring at 40Gbit/s. Optics Express, 2008, 16, 15999.	3.4	10
42	First demonstration of a spectrally efficient FDM radio over fiber system topology for beyond 4G cellular networking. , 2015, , .		10
43	â€˜It's Not for Lazy Students like Me â€™. International Journal of Electrical Engineering and Education, 2005, 42, 41-51.	0.8	9
44	Experimental performance analysis of MB-OFDM Ultra-Wideband Radio-Over-Fiber signals in the 60-GHz band using a commercially-available DFB laser. , 2012, , .		9
45	Development and validation of a simulator for wireless data acquisition in gas turbine engine testing. IET Wireless Sensor Systems, 2013, 3, 183-192.	1.7	9
46	Demonstration of a 10 Gbit/s Long Reach Wavelength Converting Optical Access Network. Journal of Lightwave Technology, 2013, 31, 328-333.	4.6	9
47	Coherent radio-over-fiber (CRoF) approach for heterogeneous wireless-optical networks. , 2014, , .		9
48	DWDM-PON/mm-Wave wireless converged Next Generation Access Topology using coherent heterodyne detection. , 2014, , .		9
49	A Fuzzy-Logic Approach for Evaluating a Cloud Service Provider. , 2015, , .		9
50	Evaluation of OOK and OFDM on an SMF-MMF-SMF Link Targeting a PON/60-GHz Topology for Beyond 4G. IEEE Photonics Technology Letters, 2016, 28, 449-452.	2.5	9
51	Operating Penalties in Single-Fiber Operation 10-Gb/s, 1024-Way Split, 110-km Long-Reach Optical Access Networks. IEEE Photonics Technology Letters, 2006, 18, 2463-2465.	2.5	8
52	Transmission of Gb/s DPSK Millimeter-Wave Wireless Data Over Fiber Using Low-Cost Uncooled Devices With Remote 40-GHz Local Oscillator Delivery. Journal of Lightwave Technology, 2008, 26, 3490-3496.	4.6	8
53	Your WiFi is leaking: Inferring user behaviour, encryption irrelevant. , 2013, , .		8
54	Pushing Software Defined Networking to the Access. , 2014, , .		8

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55	Above and beyond: ethics and responsibility in civil engineering. Australasian Journal of Engineering Education, 2021, 26, 93-116.	1.4	8
56	Fusion Skills and Industry 5.0: Conceptions and Challenges. , 0, , .		8
57	Interchannel distortion suppression for broadband wireless over fibre transmission using feed-forward linearised DFB laser. , 0, , .		7
58	Radio-over-fibre for green wireless access networks. Annales Des Telecommunications/Annals of Telecommunications, 2013, 68, 1-2.	2.5	7
59	Energy harvesting for the Internet-of-Things: Measurements and probability models. , 2016, , .		7
60	Linearity Enhancement of a Directly Modulated Uncooled DFB Laser in a Multi-Channel Wireless-over-Fibre Systems. , 0, , .		6
61	In-Band OSNR Monitoring Using Spectral Analysis After Frequency Down-Conversion. IEEE Photonics Technology Letters, 2007, 19, 115-117.	2.5	6
62	VIGILANT+: mission objective interest groups for wireless sensor network surveillance applications. IET Wireless Sensor Systems, 2011, 1, 229-240.	1.7	6
63	Evaluation of extinction ratio induced performance penalty due to interferometric noise. Electronics Letters, 1999, 35, 964.	1.0	5
64	Cost-efficient DWDM-PON/Mm-Wave wireless integration using coherent radio-over-fiber (CRoF). , 2015, , .		5
65	Fast and Broadband SOI Photonic Integrated Microwave Phase Shifter. , 2018, , .		5
66	Simultaneous up-conversion of multiple wavelengths to 18GHz and 36GHz using 4-f technique and optical filtering. , 2006, , .		4
67	Digital dual-rate burst-mode receiver for 10G and 1G coexistence in optical access networks. Optics Express, 2011, 19, 14060.	3.4	4
68	Performance of an optical equalizer in a 10 G wavelength converting optical access network. Optics Express, 2011, 19, B229.	3.4	4
69	Investigation of a robust remote heterodyne envelope detector scheme for cost-efficient E-PON / 60 GHz wireless integration. , 2014, , .		4
70	Work in progress: Multi-disiplinary curriculum review of engineering education. UCL's integrated engineering programme. , 2015, , .		4
71	Comparison of OFDM standards for 60GHz SMF-MMF radio over fiber links. , 2015, , .		4
72	Photonic THz Generation using Optoelectronic Oscillator-driven Optical Frequency Comb Generator. , 2018, , .		4

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73	Cascaded Microwave Photonic Filters for Side Mode Suppression in a Tunable Optoelectronic Oscillator applied to THz Signal Generation & Transmission. IEEE Photonics Journal, 2021, 13, 1-11.	2.0	4
74	Error probability evaluation with a limited number of moments. , 2003, , .		3
75	Simplified derivation of the modified Chernoff upper bound. IET Communications, 2005, 152, 850.	1.0	3
76	Performance estimation of adaptive spreading code length for energy efficient WSN. , 2011, , .		3
77	A combined digital linearization and channel estimation approach for IM/DD fast-OFDM systems. Optical Fiber Technology, 2021, 67, 102725.	2.7	3
78	Radio-over-Fiber (RoF) Networks. Optical Networks Series, 2009, , 283-300.	1.1	3
79	Fast residual chromatic dispersion monitoring for dynamic burst networks. , 2006, , .		2
80	Performance increase through the use of multiple sub-carriers in WSN. , 2009, , .		2
81	PORTENT: predator aware situation assessment for wireless sensor network surveillance applications. , 2010, , .		2
82	AS-MAC. ACM Transactions on Sensor Networks, 2013, 10, 1-29.	3.6	2
83	Your WiFi Is Leaking: Ignoring Encryption, Using Histograms to Remotely Detect Skype Traffic. , 2014, , .		2
84	Transparent wireless access to optical WDM networks using a novel coherent radio-over-fiber (CRoF) approach. , 2014, , .		2
85	FiWi5G - Fiber-Wireless Integrated Networks for 5th Generation delivery. , 2016, , .		2
86	Gender differences in first-year studentsâ€™™ expectations towards a new engineering multidisciplinary curriculum. , 2018, , .		2
87	A Message From the New Editor-in-Chief. IEEE Transactions on Education, 2019, 62, 1-1.	2.4	2
88	Opportunities and barriers faced by early-career civil engineers enacting global responsibility. European Journal of Engineering Education, 0, , 1-29.	2.3	2
89	Demonstration of photonic integrated RAU for millimetre-wave gigabit wireless transmissio. , 2016, , .		2
90	Experimental Demonstration of Direct-Detection Optical Fast-OFDM using Memory Polynomials. , 2021, , .		2

#	ARTICLE	IF	CITATIONS
91	On the error probability performance of non-linearly distorted OFDM signals. , 0, , .		1
92	Single Technique for Simultaneous Monitoring of OSNR and Chromatic Dispersion at 40Gbit/s. , 2006, , .		1
93	Radio over fibre networks. , 2007, , .		1
94	Convergence of optical and millimeter-wave broadband wireless access networks. , 2009, , .		1
95	First demonstration of secure, AWG performance interrogation using OFDM edge-tones on WDM access networks. , 2010, , .		1
96	VIGILANT: "situation-aware" quality of information interest groups for wireless sensor network surveillance applications. Proceedings of SPIE, 2010, , .	0.8	1
97	ICT BONE views on the Network of the Future: The role of Optical Networking. , 2010, , .		1
98	Autonomic control for wireless sensor network surveillance applications. , 2011, , .		1
99	Transmission limitations of WiMax over fibre transmission employing optical up-conversion schemes. , 2012, , .		1
100	Then and Now: Perspectives on Teaching Electrical and Electronic Engineering. International Journal of Electrical Engineering and Education, 2013, 50, 345-350.	0.8	1
101	Your WiFi Is Leaking: Building a Low-Cost Device to Infer User Activities. , 2014, , .		1
102	Sense of achievement: Initial evaluation of an Integrated Engineering design cornerstone module. , 2015, , .		1
103	Wavelength shift tolerance of a heterodyne detection scheme for cost-efficient DWDM-PON / 60 GHz wireless integration. Proceedings of SPIE, 2015, , .	0.8	1
104	Full-standard broadcast DVB-T and wireless overlay on legacy and OFDM next-generation FTTH networks. , 2015, , .		1
105	Opto-electronic cross-phase tuneable system based on cascaded intensity modulators. , 2017, , .		1
106	Ipsative learning: a personal approach to a student's experience of PBL within an integrated engineering design cornerstone module. Proceedings of the Canadian Engineering Education Association (CEEA), 0, , .	0.2	1
107	Optical Frequency Tripling with Improved Suppression and Sideband Selection. , 2011, , .		1
108	Experimental Demonstration of Digital Predistortion for Linearization of Mach-Zehnder Modulators in Direct-Detection MB-OFDM Ultra-Wideband over Fiber Systems. , 2012, , .		1

#	ARTICLE	IF	CITATIONS
109	Review Unto Others As You Would Have Others Review Unto You. , 2020, , .		1
110	Radio-over-fiber using spectrum sliced optical links. , 2004, , .		0
111	Data transmission using a spectrum sliced, radio-over-fibre link. , 2006, 6194, 16.		0
112	Emerging radio-over-fiber technologies and networks: challenges and issues. , 2009, , .		0
113	Editorial: Next generation of optical access. IET Optoelectronics, 2010, 4, 217-218.	3.3	0
114	Modelling optical burst equalisation in next generation access network. , 2010, , .		0
115	A multi-wavelength access network featuring WiMAX transmission over GPON links. , 2010, , .		0
116	Multi-Impairment WDM Optical Performance Monitoring for Burst Switched Networks. Journal of Lightwave Technology, 2010, , .	4.6	0
117	Performance of an Optical Equaliser in a 10Gbit/s Wavelength Converting Optical Access Networks. , 2011, , .		0
118	Analyses of MAC performance for Multi-Carrier based wireless sensor networks. , 2011, , .		0
119	Integrated wireless backhaul over optical access networks. , 2013, , .		0
120	Investigation of a cost-efficient PON/mm-wave converged access topology using multimode fiber feeds. , 2015, , .		0
121	Editorial Transactions on Education in the New Decade. IEEE Transactions on Education, 2020, 63, 1-1.	2.4	0
122	Precompensation of 3D field distortions in remote focus two-photon microscopy. Biomedical Optics Express, 2021, 12, 3717.	2.9	0
123	Optical Generation and Transmission of Millimeter-Wave Signals. Wireless Networks and Mobile Communications, 2008, , 377-423.	1.0	0
124	Digital multi-rate receiver for 10GE-PON and GE-PON coexistence. , 2011, , .		0
125	Experimental Demonstration of Digital Predistortion for Linearization of Mach-Zehnder Modulators in Direct-Detection MB-OFDM Ultra-Wideband over Fiber Systems. , 2012, , .		0
126	Analog Optical Front-Haul Technologies and Architectures. Springer Handbooks, 2020, , 1013-1030.	0.6	0

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127	How Architecture and Engineering Students Conceptualize Design Creation: Report of a Pilot Study. , 0, , .		0