

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	Faculty wide curriculum reform: the integrated engineering programme. European Journal of Engineering Education, 2021, 46, 48-66.	2.3	36
2	Above and beyond: ethics and responsibility in civil engineering. Australasian Journal of Engineering Education, 2021, 26, 93-116.	1.4	8
3	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
4	Precompensation of 3D field distortions in remote focus two-photon microscopy. Biomedical Optics Express, 2021, 12, 3717.	2.9	0
5	A combined digital linearization and channel estimation approach for IM/DD fast-OFDM systems. Optical Fiber Technology, 2021, 67, 102725.	2.7	3
6	Experimental Demonstration of Direct-Detection Optical Fast-OFDM using Memory Polynomials. , 2021, , .		2
7	Staff perceptions of implementing project-based learning in engineering education. European Journal of Engineering Education, 2020, 45, 349-362.	2.3	15
8	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
9	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
10	Editorial Transactions on Education in the New Decade. IEEE Transactions on Education, 2020, 63, 1-1.	2.4	0
11	Analog Optical Front-Haul Technologies and Architectures. Springer Handbooks, 2020, , 1013-1030.	0.6	0
12	Review Unto Others As You Would Have Others Review Unto You. , 2020, , .		1
13	Philosophies and pedagogies that shape an integrated engineering programme. Higher Education Pedagogies, 2019, 4, 180-196.	3.5	11
14	A Message From the New Editor-in-Chief. IEEE Transactions on Education, 2019, 62, 1-1.	2.4	2
15	Assessing the sustainability content of the Nigerian engineering curriculum. International Journal of Sustainability in Higher Education, 2019, 20, 590-613.	3.1	11
16	Assessing the sustainability literacy of the Nigerian engineering community. Journal of Cleaner Production, 2019, 212, 666-676.	9.3	21
17	Your WiFi is leaking: What do your mobile apps gossip about you?. Future Generation Computer Systems, 2018, 80, 546-557.	7.5	26
18	Photonic THz Generation using Optoelectronic Oscillator-driven Optical Frequency Comb Generator. , 2018, , .		4

#	ARTICLE	IF	CITATIONS
19	Gender differences in first-year students'™ expectations towards a new engineering multidisciplinary curriculum. , 2018, , .		2
20	How authentic does authentic learning have to be?. Higher Education Pedagogies, 2018, 3, 495-509.	3.5	35
21	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
22	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
23	Fast and Broadband SOI Photonic Integrated Microwave Phase Shifter. , 2018, , .		5
24	Opto-electronic cross-phase tuneable system based on cascaded intensity modulators. , 2017, , .		1
25	Energy harvesting for the Internet-of-Things: Measurements and probability models. , 2016, , .		7
26	Bandwidth Compressed Waveform for 60-GHz Millimeter-Wave Radio Over Fiber Experiment. Journal of Lightwave Technology, 2016, 34, 3458-3465.	4.6	43
27	FiWiN5G - Fiber-Wireless Integrated Networks for 5th Generation delivery. , 2016, , .		2
28	Dynamic wavefront shaping with an acousto-optic lens for laser scanning microscopy. Optics Express, 2016, 24, 6283.	3.4	25
29	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
30	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
31	Demonstration of photonic integrated RAU for millimetre-wave gigabit wireless transmissio. , 2016, , .		2
32	A Fuzzy-Logic Approach for Evaluating a Cloud Service Provider. , 2015, , .		9
33	Work in progress: Multi-disiplinary curriculum review of engineering education. UCL's integrated engineering programme. , 2015, , .		4
34	Sense of achievement: Initial evaluation of an Integrated Engineering design cornerstone module. , 2015, , .		1
35	Cost-efficient DWDM-PON/Mm-Wave wireless integration using coherent radio-over-fiber (CRoF). , 2015, , .		5
36	Wavelength shift tolerance of a heterodyne detection scheme for cost-efficient DWDM-PON / 60 GHz wireless integration. Proceedings of SPIE, 2015, , .	0.8	1

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37	Full-standard broadcast DVB-T and wireless overlay on legacy and OFDM next-generation FTTH networks. , 2015, , .		1
38	Comparison of OFDM standards for 60GHz SMF-MMF radio over fiber links. , 2015, , .		4
39	First demonstration of a spectrally efficient FDM radio over fiber system topology for beyond 4G cellular networking. , 2015, , .		10
40	Investigation of a cost-efficient PON/mm-wave converged access topology using multimode fiber feeds. , 2015, , .		0
41	Integrated Wireless Backhaul Over Optical Access Networks. Journal of Lightwave Technology, 2014, 32, 3373-3382.	4.6	85
42	Coherent radio-over-fiber (CRoF) approach for heterogeneous wireless-optical networks. , 2014, , .		9
43	Remote Assessment of Cultural Heritage Environments with Wireless Sensor Array Networks. Sensors, 2014, 14, 8779-8793.	3.8	32
44	Your WiFi Is Leaking: Ignoring Encryption, Using Histograms to Remotely Detect Skype Traffic. , 2014, , .		2
45	Your WiFi Is Leaking: Building a Low-Cost Device to Infer User Activities. , 2014, , .		1
46	Pushing Software Defined Networking to the Access. , 2014, , .		8
47	DWDM-PON/mm-Wave wireless converged Next Generation Access Topology using coherent heterodyne detection. , 2014, , .		9
48	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
49	Investigation of a robust remote heterodyne envelope detector scheme for cost-efficient E-PON / 60 GHz wireless integration. , 2014, , .		4
50	Transparent wireless access to optical WDM networks using a novel coherent radio-over-fiber (CRoF) approach. , 2014, , .		2
51	Your WiFi is leaking: Inferring user behaviour, encryption irrelevant. , 2013, , .		8
52	Effective-SNR estimation for wireless sensor network using Kalman filter. Ad Hoc Networks, 2013, 11, 944-958.	5.5	43
53	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
54	Simple 60-GHz MB-OFDM Ultrawideband RoF System Based on Remote Heterodyning. IEEE Photonics Technology Letters, 2013, 25, 268-271.	2.5	31

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55	Demonstration of a 10 Gbit/s Long Reach Wavelength Converting Optical Access Network. Journal of Lightwave Technology, 2013, 31, 328-333.	4.6	9
56	Integrated wireless backhaul over optical access networks. , 2013, , .		0
57	Radio-over-fibre for green wireless access networks. Annales Des Telecommunications/Annals of Telecommunications, 2013, 68, 1-2.	2.5	7
58	AS-MAC. ACM Transactions on Sensor Networks, 2013, 10, 1-29.	3.6	2
59	Then and Now: Perspectives on Teaching Electrical and Electronic Engineering. International Journal of Electrical Engineering and Education, 2013, 50, 345-350.	0.8	1
60	Wireless Communication Networks for Gas Turbine Engine Testing. International Journal of Distributed Sensor Networks, 2012, 8, 212876.	2.2	11
61	Transmission limitations of WiMax over fibre transmission employing optical up-conversion schemes. , 2012, , .		1
62	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
63	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
64	Demonstration of Wireless Backhauling Over Long-Reach PONs. Journal of Lightwave Technology, 2012, 30, 811-817.	4.6	28
65	Experimental Demonstration of Digital Predistortion for Linearization of Mach-Zehnder Modulators in Direct-Detection MB-OFDM Ultra-Wideband over Fiber Systems. , 2012, , .		0
66	Experimental Demonstration of Digital Predistortion for Linearization of Mach-Zehnder Modulators in Direct-Detection MB-OFDM Ultra-Wideband over Fiber Systems. , 2012, , .		1
67	Performance estimation of adaptive spreading code length for energy efficient WSN. , 2011, , .		3
68	Digital dual-rate burst-mode receiver for 10G and 1G coexistence in optical access networks. Optics Express, 2011, 19, 14060.	3.4	4
69	Performance of an optical equalizer in a 10 G wavelength converting optical access network. Optics Express, 2011, 19, B229.	3.4	4
70	Optical frequency tripling with improved suppression and sideband selection. Optics Express, 2011, 19, B459.	3.4	16
71	Performance of an Optical Equaliser in a 10Gbit/s Wavelength Converting Optical Access Networks. , 2011, , .		0
72	VIGILANT+: mission objective interest groups for wireless sensor network surveillance applications. IET Wireless Sensor Systems, 2011, 1, 229-240.	1.7	6

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73	Networking and application interface technology for wireless sensor network surveillance and monitoring. , 2011, 49, 90-97.		38
74	Autonomic control for wireless sensor network surveillance applications. , 2011, , .		1
75	Analyses of MAC performance for Multi-Carrier based wireless sensor networks. , 2011, , .		0
76	Digital multi-rate receiver for 10GE-PON and GE-PON coexistence. , 2011, , .		0
77	Optical Frequency Tripling with Improved Suppression and Sideband Selection. , 2011, , .		1
78	Editorial: Next generation of optical access. IET Optoelectronics, 2010, 4, 217-218.	3.3	0
79	Problem-Based Learning in Communication Systems: Student Perceptions and Achievement. IEEE Transactions on Education, 2010, 53, 587-594.	2.4	55
80	First demonstration of secure, AWG performance interrogation using OFDM edge-tones on WDM access networks. , 2010, , .		1
81	Modelling optical burst equalisation in next generation access network. , 2010, , .		0
82	A multi-wavelength access network featuring WiMAX transmission over GPON links. , 2010, , .		0
83	PORTENT: predator aware situation assessment for wireless sensor network surveillance applications. , 2010, , .		2
84	Multi-Impairment WDM Optical Performance Monitoring for Burst Switched Networks. Journal of Lightwave Technology, 2010, , .	4.6	0
85	VIGILANT: "situation-aware" quality of information interest groups for wireless sensor network surveillance applications. Proceedings of SPIE, 2010, , .	0.8	1
86	ICT BONE views on the Network of the Future: The role of Optical Networking. , 2010, , .		1
87	Emerging radio-over-fiber technologies and networks: challenges and issues. , 2009, , .		0
88	Radio-over-fiber transport for the support of wireless broadband services [Invited]. Journal of Optical Networking, 2009, 8, 156.	2.5	105
89	Architecture to integrate multiple PONs with long reach DWDM backhaul. IEEE Journal on Selected Areas in Communications, 2009, 27, 126-133.	14.0	37
90	Convergence of optical and millimeter-wave broadband wireless access networks. , 2009, , .		1

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91	Performance increase through the use of multiple sub-carriers in WSN. , 2009, , .		2
92	Radio-over-Fiber (RoF) Networks. Optical Networks Series, 2009, , 283-300.	1.1	3
93	Performance Impairments in Single-Mode Radio-Over-Fiber Systems Due to MAC Constraints. Journal of Lightwave Technology, 2008, 26, 2540-2548.	4.6	39
94	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
95	Simultaneous chromatic dispersion, polarization-mode-dispersion and OSNR monitoring at 40Gbit/s. Optics Express, 2008, 16, 15999.	3.4	10
96	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
97	Optical Generation and Transmission of Millimeter-Wave Signals. Wireless Networks and Mobile Communications, 2008, , 377-423.	1.0	0
98	Experimental Upstream Demonstration of a Long Reach Wavelength-Converting PON with DWDM Backhaul. , 2007, , .		13
99	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
100	High-Dynamic-Range Wireless-Over-Fiber Link Using Feedforward Linearization. Journal of Lightwave Technology, 2007, 25, 3274-3282.	4.6	58
101	Radio over fiber access network architecture employing reflective semiconductor optical amplifiers. , 2007, , .		15
102	Long-Reach Optical Access Technologies. IEEE Network, 2007, 21, 5-11.	6.9	94
103	Radio over fibre networks. , 2007, , .		1
104	In-Band OSNR Monitoring Using Spectral Analysis After Frequency Down-Conversion. IEEE Photonics Technology Letters, 2007, 19, 115-117.	2.5	6
105	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
106	Optical network architectures for dynamic reconfiguration of full duplex, multiwavelength, radio over fiber. Journal of Optical Networking, 2006, 5, 435.	2.5	14
107	Data transmission using a spectrum sliced, radio-over-fibre link. , 2006, 6194, 16.		0
108	Fast residual chromatic dispersion monitoring for dynamic burst networks. , 2006, , .		2

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109	Single Technique for Simultaneous Monitoring of OSNR and Chromatic Dispersion at 40Gbit/s. , 2006, , .		1
110	Simultaneous up-conversion of multiple wavelengths to 18GHz and 36GHz using 4-f technique and optical filtering. , 2006, , .		4
111	MAC Constraints on the Distribution of 802.11 using Optical Fibre. , 2006, , .		15
112	Techniques for Radio over Fiber Networks. , 2006, , .		11
113	Simplified derivation of the modified Chernoff upper bound. IET Communications, 2005, 152, 850.	1.0	3
114	â€œIt's Not for Lazy Students like Me â€œ!'. International Journal of Electrical Engineering and Education, 2005, 42, 41-51.	0.8	9
115	Performance analysis of interferometric noise due to unequally powered interferers in optical networks. Journal of Lightwave Technology, 2005, 23, 1692-1703.	4.6	39
116	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
117	Radio-over-fiber using spectrum sliced optical links. , 2004, , .		0
118	Performance of OFDM at 5.8â€¦GHz using radio over fibre link. Electronics Letters, 2004, 40, 1353.	1.0	52
119	Error probability evaluation with a limited number of moments. , 2003, , .		3
120	Evaluation of extinction ratio induced performance penalty due to interferometric noise. Electronics Letters, 1999, 35, 964.	1.0	5
121	On the error probability performance of non-linearly distorted OFDM signals. , 0, , .		1
122	Interchannel distortion suppression for broadband wireless over fibre transmission using feed-forward linearised DFB laser. , 0, , .		7
123	Linearity Enhancement of a Directly Modulated Uncooled DFB Laser in a Multi-Channel Wireless-over-Fibre Systems. , 0, , .		6
124	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
125	Fusion Skills and Industry 5.0: Conceptions and Challenges. , 0, , .		8
126	Opportunities and barriers faced by early-career civil engineers enacting global responsibility. European Journal of Engineering Education, 0, , 1-29.	2.3	2

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