David G Michelson

List of Publications by Year
in descending order

46 papers	636 citations	623734 14 h-index	580821 25 g-index
46 all docs	46 docs citations	46 times ranked	669 citing authors

#	Article	IF	Citations
1	A Survey of Wireless Communications and Propagation Modeling in Underground Mines. IEEE Communications Surveys and Tutorials, 2013, 15, 1524-1545.	39.4	165
2	Ricean K-Factors in Narrow-Band Fixed Wireless Channels: Theory, Experiments, and Statistical Models. IEEE Transactions on Vehicular Technology, 2009, 58, 4000-4012.	6.3	115
3	Characterization of UWB Channel Impulse Responses Within the Passenger Cabin of a Boeing 737-200 Aircraft. IEEE Transactions on Antennas and Propagation, 2010, 58, 935-945.	5.1	24
4	Effect of Human Presence on UWB Radiowave Propagation Within the Passenger Cabin of a Midsize Airliner. IEEE Transactions on Antennas and Propagation, 2010, 58, 917-926.	5.1	23
5	Optimization of Antenna Placement in Distributed MIMO Systems for Underground Mines. IEEE Transactions on Wireless Communications, 2014, 13, 4685-4692.	9.2	23
6	Automated Identification of Clusters in UWB Channel Impulse Responses. , 2007, , .		22
7	UWB Radiowave Propagation within the Passenger Cabin of a Boeing 737-200 Aircraft. IEEE Vehicular Technology Conference, 2007, , .	0.4	21
8	Centralized and Game Theoretical Solutions of Joint Source and Relay Power Allocation for AF Relay Based Network. IEEE Transactions on Communications, 2015, 63, 2848-2863.	7.8	20
9	Use of Gaussian beam divergence to compensate for misalignment of underwater wireless optical communication links. IET Optoelectronics, 2017, 11, 171-175.	3.3	19
10	Fifth-Generation (5G) mmWave Spatial Channel Characterization for Urban Environmentsâ€™ System Analysis. Sensors, 2020, 20, 5360.	3.8	19
11	Outage Probability of MRC Diversity over Correlated Shadowed Fading Channels. IEEE Wireless Communications Letters, 2012, 1, 516-519.	5.0	16
12	Peak Power Reduction of OFDM Systems Through Tone Injection via Parametric Minimum Cross-Entropy Method. IEEE Transactions on Vehicular Technology, 2013, 62, 1838-1843.	6.3	15
13	Effect of antenna array properties on multipleâ€inputâ€“multipleâ€output system performance in an underground mine. IET Microwaves, Antennas and Propagation, 2013, 7, 1035-1044.	1.4	15
14	3D Head Motion Detection Using Millimeter-Wave Doppler Radar. IEEE Access, 2020, 8, 32321-32331.	4.2	15
15	Characterization of Angular Spread in Underground Tunnels Based on the Multimode Waveguide Model. IEEE Transactions on Communications, 2014, 62, 4126-4133.	7.8	14
16	Methodology for Benchmarking Radio-Frequency Channel Sounders Through a System Model. IEEE Transactions on Wireless Communications, 2020, 19, 6504-6519.	9.2	14
17	Geometrical-Empirical Channel Propagation Model for Human Presence at 60 GHz. IEEE Access, 2021, 9, 38467-38478.	4.2	14
18	Implementation of Reconfigurable Patch Antennas Using Reed Switches. IEEE Antennas and Wireless Propagation Letters, 2011, 10, 1023-1026.	4.0	13

#	Article	IF	Citations
19	Effect of Turbulence Layer Height and Satellite Altitude on Tropospheric Scintillation on Ka-Band Earthâ€“LEO Satellite Links. IEEE Transactions on Vehicular Technology, 2010, 59, 3181-3192.	6.3	11
20	Effect of Antenna Configuration on MIMO-Based Access Points in a Short Tunnel With Infrastructure. IEEE Transactions on Communications, 2016, 64, 1942-1951.	7.8	9
21	An empirical model for dual-diversity reception over fixed wireless channels in suburban macrocell environments. IEEE Transactions on Wireless Communications, 2009, 8, 4220-4229.	9.2	7
22	Measuring the Impact of Beamwidth on the Correlation Distance of 60 GHz Indoor and Outdoor Channels. IEEE Open Journal of Vehicular Technology, 2021, 2, 180-193.	4.9	7
23	Characterization of time variation on 1.9 GHz fixed wireless channels in suburban macrocell environments. IEEE Transactions on Wireless Communications, 2009, 8, 3975-3979.	9.2	6
24	Action-based scheduling technique for 802.15.4/ZigBee wireless body area networks. , 2011, , .		6
25	Depth and Rate of Fading on Fixed Wireless Channels Between 200 MHz and 2 GHz in Suburban Macrocell Environments. IEEE Transactions on Antennas and Propagation, 2010, 58, 3353-3362.	5.1	4
26	ARFrequency Domain Analysis of the IEEE 802.15.4a Standard Channel Models. , 2007, , .		3
27	Reporting Spectrum Misbehaviour using the IEEE 1609 Security Credential Management System. , 2020, , .		3
28	Characterization of fading on fixed wireless channels between 200 MHz and 2 GHz in suburban macrocell environments. IEEE Transactions on Wireless Communications, 2009, 8, 5356-5365.	9.2	2
29	Communications education and training: industry certification and university accreditation [Guest Editorial]. , 2015, 53, 194-195.		2
30	Wireless Multifrequency Feature Set to Simplify Human 3-D Pose Estimation. IEEE Antennas and Wireless Propagation Letters, 2019, 18, 876-880.	4.0	2
31	A Framework for Developing Algorithms for Estimating Propagation Parameters from Measurements. , 2020, , .		2
32	Simulation of rain fading and scintillation on Ka-band Earth-LEO satellite links. , 2009, , .		1
33	Comparison of Assisted and Unassisted Cooperative Collision Avoidance Distances at Intersections. , 2011, , .		1
34	Effects of Relaying on Network Lifetime in 2.4GHz IEEE802.15.4 Based Body Area Networks. , 2012, , .		1
35	Communications education and training: ethics and professionalism [Guest Editorial]. , 2015, 53, 16-17.		1
36	CVIN: Connected Vehicle Information Network. , 2020, , .		1

#	Article	IF	Citations
37	Fade Slope Analysis of Ka-Band LEO Satellite Links. Vehicular Technology Conference-Fall (VTC-FALL), Proceedings, IEEE, 2007, , .	0.0	0
38	Second-Order Statistics of Polarization State Dispersion by Narrowband Ricean Fading Channels. , 2008, , .		0
39	Accounting for Wind Effects on Fixed Wireless Channels in Suburban Macrocell Environments. , 2008, , .		0
40	A First-Order Model for Depolarization of Propagating Signals by Narrowband Ricean Fading Channels. IEEE Transactions on Wireless Communications, 2009, 8, 3921-3925.	9.2	0
41	The Wavefront Wireless Commercialization Centre. , 2011, , .		0
42	Use of Doppler focusing to resolve spatial channels from moving platforms. , 2014, , .		0
43	Application of cognitive radio principles to wireless channel sounding. , 2014, , .		0
44	A self-complementary PICA for UWB applications. , 2015, , .		0
45	Validation of an equivalent circuit model for a loop-coupled cylindrical helical antenna. , 2016, , .		0
46	A Classification Scheme for Wireless Channel Models Across the Development Life Cycle. , 2019, , .		0