George R Maccartney

List of Publications by Year
in descending order

36 papers	6,936 citations	840728 11 h-index	1281846 11 g-index
36 all docs	36 docs citations	36 times ranked	4827 citing authors

#	Article	IF	Citations
1	Millimeter-Wave Base Station Diversity for 5G Coordinated Multipoint (CoMP) Applications. IEEE Transactions on Wireless Communications, 2019, 18, 3395-3410.	9.2	91
2	Verification and Calibration of Antenna Cross-Polarization Discrimination and Penetration Loss for Millimeter Wave Communications. , 2018, , .		16
3	Rural Macrocell Path Loss Models for Millimeter Wave Wireless Communications. IEEE Journal on Selected Areas in Communications, 2017, 35, 1663-1677.	14.0	123
4	A Flexible Millimeter-Wave Channel Sounder With Absolute Timing. IEEE Journal on Selected Areas in Communications, 2017, 35, 1402-1418.	14.0	120
5	Millimeter wave small-scale spatial statistics in an urban microcell scenario. , 2017, , .		35
6	Overview of Millimeter Wave Communications for Fifth-Generation (5G) Wireless Networksâ€"With a Focus on Propagation Models. IEEE Transactions on Antennas and Propagation, 2017, 65, 6213-6230.	5.1	1,025
7	Small-Scale, Local Area, and Transitional Millimeter Wave Propagation for 5G Communications. IEEE Transactions on Antennas and Propagation, 2017, 65, 6474-6490.	5.1	110
8	A novel millimeter-wave channel simulator and applications for 5G wireless communications. , 2017, , .		187
9	Study on 3GPP rural macrocell path loss models for millimeter wave wireless communications. , 2017, , .		33
10	A flexible wideband millimeter-wave channel sounder with local area and NLOS to LOS transition measurements. , 2017, , .		28
11	Indoor office wideband penetration loss measurements at 73 GHz. , 2017, , .		45
12	Base Station Diversity Propagation Measurements at 73 GHz Millimeter-Wave for 5G Coordinated Multipoint (CoMP) Analysis. , 2017, , .		32
13	Millimeter-Wave Human Blockage at 73 GHz with a Simple Double Knife-Edge Diffraction Model and Extension for Directional Antennas. , 2016, , .		127
14	Millimeter wave wireless communications. , 2016, , .		178
15	5G 3GPP-Like Channel Models for Outdoor Urban Microcellular and Macrocellular Environments. , 2016, , .		208
16	Directional Radio Propagation Path Loss Models for Millimeter-Wave Wireless Networks in the 28-, 60-, and 73-GHz Bands. IEEE Transactions on Wireless Communications, 2016, 15, 6939-6947.	9.2	135
17	Indoor 5G 3GPP-like channel models for office and shopping mall environments. , 2016, , .		92
18	28 GHz Millimeter-Wave Ultrawideband Small-Scale Fading Models in Wireless Channels. , 2016, , .		159

#	Article	IF	Citations
19	Indoor Office Plan Environment and Layout-Based mmWave Path Loss Models for 28 GHz and 73 GHz. , 2016, , .		29
20	Millimeter-wave distance-dependent large-scale propagation measurements and path loss models for outdoor and indoor 5G systems. , 2016, , .		89
21	Synthesizing Omnidirectional Antenna Patterns, Received Power and Path Loss from Directional Antennas for 5G Millimeter-Wave Communications. , 2015, , .		56
22	Probabilistic Omnidirectional Path Loss Models for Millimeter-Wave Outdoor Communications. IEEE Wireless Communications Letters, 2015, 4, 357-360.	5.0	243
23	Exploiting directionality for millimeter-wave wireless system improvement. , 2015, , .		58
24	Wideband Millimeter-Wave Propagation Measurements and Channel Models for Future Wireless Communication System Design. IEEE Transactions on Communications, 2015, 63, 3029-3056.	7.8	1,152
25	Millimeter-Wave Omnidirectional Path Loss Data for Small Cell 5G Channel Modeling. IEEE Access, 2015, 3, 1573-1580.	4.2	215
26	Indoor Office Wideband Millimeter-Wave Propagation Measurements and Channel Models at 28 and 73 GHz for Ultra-Dense 5G Wireless Networks. IEEE Access, 2015, 3, 2388-2424.	4.2	554
27	3D mmWave Channel Model Proposal. , 2014, , .		105
28	Omnidirectional path loss models in New York City at 28 GHz and 73 GHz. , 2014, , .		90
29	28 GHz and 73 GHz signal outage study for millimeter wave cellular and backhaul communications. , 2014, , .		37
30	Evaluation of Empirical Ray-Tracing Model for an Urban Outdoor Scenario at 73 GHz E-Band. , 2014, , .		35
31	Millimeter wave multi-beam antenna combining for 5G cellular link improvement in New York City. , 2014, , .		57
32	73 GHz millimeter wave propagation measurements for outdoor urban mobile and backhaul communications in New York City. , 2014, , .		149
33	Radio propagation path loss models for 5G cellular networks in the 28 GHZ and 38 GHZ millimeter-wave bands. , 2014, 52, 78-86.		425
34	Millimeter-Wave Enhanced Local Area Systems: A High-Data-Rate Approach for Future Wireless Networks. IEEE Journal on Selected Areas in Communications, 2014, 32, 1152-1163.	14.0	633
35	Synthesizing Omnidirectional Antenna Patterns, Received Power and Path Loss from Directional Antennas for 5G Millimeter-Wave Communications. , 2014, , .		11
36	Path loss models for 5G millimeter wave propagation channels in urban microcells. , 2013, , .		254