

# Fredrik Tufvesson

## List of Publications by Year in descending order

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Version: 2024-02-01

207  
papers

20,925  
citations

61984

43  
h-index

32842

100  
g-index

211  
all docs

211  
docs citations

211  
times ranked

10130  
citing authors

#	ARTICLE	IF	CITATIONS
1	Massive MIMO for next generation wireless systems. IEEE Communications Magazine, 2014, 52, 186-195.	6.1	5,006
2	Scaling Up MIMO: Opportunities and Challenges with Very Large Arrays. IEEE Signal Processing Magazine, 2013, 30, 40-60.	5.6	4,222
3	5G: A Tutorial Overview of Standards, Trials, Challenges, Deployment, and Practice. IEEE Journal on Selected Areas in Communications, 2017, 35, 1201-1221.	14.0	1,536
4	6G Wireless Systems: Vision, Requirements, Challenges, Insights, and Opportunities. Proceedings of the IEEE, 2021, 109, 1166-1199.	21.3	538
5	Massive MIMO Performance Evaluation Based on Measured Propagation Data. IEEE Transactions on Wireless Communications, 2015, 14, 3899-3911.	9.2	444
6	The COST 2100 MIMO channel model. IEEE Wireless Communications, 2012, 19, 92-99.	9.0	432
7	A survey on vehicle-to-vehicle propagation channels. IEEE Wireless Communications, 2009, 16, 12-22.	9.0	370
8	Vehicular Channel Characterization and Its Implications for Wireless System Design and Performance. Proceedings of the IEEE, 2011, 99, 1189-1212.	21.3	355
9	A geometry-based stochastic MIMO model for vehicle-to-vehicle communications. IEEE Transactions on Wireless Communications, 2009, 8, 3646-3657.	9.2	325
10	High-Accuracy Localization for Assisted Living: 5G systems will turn multipath channels from foe to friend. IEEE Signal Processing Magazine, 2016, 33, 59-70.	5.6	321
11	5G mmWave Positioning for Vehicular Networks. IEEE Wireless Communications, 2017, 24, 80-86.	9.0	312
12	Channel measurements and analysis for very large array systems at 2.6 GHz. , 2012, , .		254
13	Path Loss Modeling for Vehicle-to-Vehicle Communications. IEEE Transactions on Vehicular Technology, 2011, 60, 323-328.	6.3	226
14	On mm-Wave Multipath Clustering and Channel Modeling. IEEE Transactions on Antennas and Propagation, 2014, 62, 1445-1455.	5.1	225
15	Polarized MIMO channels in 3-D: models, measurements and mutual information. IEEE Journal on Selected Areas in Communications, 2006, 24, 514-527.	14.0	224
16	Linear Pre-Coding Performance in Measured Very-Large MIMO Channels. , 2011, , .		211
17	Massive MIMO in Real Propagation Environments: Do All Antennas Contribute Equally?. IEEE Transactions on Communications, 2015, 63, 3917-3928.	7.8	210
18	A flexible 100-antenna testbed for Massive MIMO. , 2014, , .		191

#	ARTICLE	IF	CITATIONS
19	Delay and Doppler Spreads of Nonstationary Vehicular Channels for Safety-Relevant Scenarios. IEEE Transactions on Vehicular Technology, 2014, 63, 82-93.	6.3	183
20	A Measurement-Based Statistical Model for Industrial Ultra-Wideband Channels. IEEE Transactions on Wireless Communications, 2007, 6, 3028-3037.	9.2	171
21	Vehicle-to-Vehicle Propagation Models With Large Vehicle Obstructions. IEEE Transactions on Intelligent Transportation Systems, 2014, 15, 2237-2248.	8.0	171
22	Microwave vs. Millimeter-Wave Propagation Channels: Key Differences and Impact on 5G Cellular Systems. IEEE Communications Magazine, 2018, 56, 14-20.	6.1	148
23	The World's First Real-Time Testbed for Massive MIMO: Design, Implementation, and Validation. IEEE Access, 2017, 5, 9073-9088.	4.2	147
24	Measured propagation characteristics for very-large MIMO at 2.6 GHz. , 2012, , .		135
25	A Measurement Based Shadow Fading Model for Vehicle-to-Vehicle Network Simulations. International Journal of Antennas and Propagation, 2015, 2015, 1-12.	1.2	130
26	A Belief Propagation Algorithm for Multipath-Based SLAM. IEEE Transactions on Wireless Communications, 2019, 18, 5613-5629.	9.2	130
27	Keyhole Effect in MIMO Wireless Channels: Measurements and Theory. IEEE Transactions on Wireless Communications, 2006, 5, 3596-3604.	9.2	129
28	Reciprocity Calibration for Massive MIMO: Proposal, Modeling, and Validation. IEEE Transactions on Wireless Communications, 2017, 16, 3042-3056.	9.2	124
29	Massive MIMO channels &#x2014; Measurements and models. , 2013, , .		120
30	Deep convolutional neural networks for massive MIMO fingerprint-based positioning. , 2017, , .		111
31	Car-to-car radio channel measurements at 5 GHz: Pathloss, power-delay profile, and delay-Doppler spectrum. , 2007, , .		95
32	Characterization of Vehicle-to-Vehicle Radio Channels from Measurements at 5.2 GHz. Wireless Personal Communications, 2009, 50, 19-32.	2.7	91
33	Digital Predistortion for Hybrid MIMO Transmitters. IEEE Journal on Selected Topics in Signal Processing, 2018, 12, 445-454.	10.8	91
34	Simulation and Measurement-Based Vehicle-to-Vehicle Channel Characterization: Accuracy and Constraint Analysis. IEEE Transactions on Antennas and Propagation, 2015, 63, 3208-3218.	5.1	89
35	Measurement of keyhole effect in a wireless multiple-input multiple-output (MIMO) channel. IEEE Communications Letters, 2003, 7, 373-375.	4.1	84
36	Propagation Channel Models for Next-Generation Wireless Communications Systems. IEICE Transactions on Communications, 2014, E97.B, 2022-2034.	0.7	81

#	ARTICLE	IF	CITATIONS
37	Performance Characterization of a Real-Time Massive MIMO System With LOS Mobile Channels. IEEE Journal on Selected Areas in Communications, 2017, 35, 1244-1253.	14.0	81
38	Time- and Frequency-Varying $\alpha$ -Factor of Non-Stationary Vehicular Channels for Safety-Relevant Scenarios. IEEE Transactions on Intelligent Transportation Systems, 2015, 16, 1007-1017.	8.0	80
39	The COST 2100 Channel Model: Parameterization and Validation Based on Outdoor MIMO Measurements at 300 MHz. IEEE Transactions on Wireless Communications, 2013, 12, 888-897.	9.2	78
40	Modeling the ultra-wideband outdoor channel: Measurements and parameter extraction method. IEEE Transactions on Wireless Communications, 2010, 9, 282-290.	9.2	74
41	The (in-) validity of the WSSUS assumption in vehicular radio channels. , 2012, , .		72
42	Radio Channel Measurements at Street Intersections for Vehicle-to-Vehicle Safety Applications. , 2010, , .		69
43	Mean effective gain of antennas in a wireless channel. IET Microwaves, Antennas and Propagation, 2009, 3, 214.	1.4	67
44	A statistical model for indoor office wireless sensor channels. IEEE Transactions on Wireless Communications, 2009, 8, 4154-4164.	9.2	61
45	Massive MIMO Performanceâ€™TDD Versus FDD: What Do Measurements Say?. IEEE Transactions on Wireless Communications, 2018, 17, 2247-2261.	9.2	61
46	Tracking Time-Variant Cluster Parameters in MIMO Channel Measurements. , 2007, , .		57
47	Massive MIMO Extensions to the COST 2100 Channel Model: Modeling and Validation. IEEE Transactions on Wireless Communications, 2020, 19, 380-394.	9.2	57
48	Reciprocity calibration methods for massive MIMO based on antenna coupling. , 2014, , .		54
49	Characterization of 60 GHz shadowing by human bodies and simple phantoms. , 2012, , .		52
50	Beamforming Effects on Measured mm-Wave Channel Characteristics. IEEE Transactions on Wireless Communications, 2011, 10, 3553-3559.	9.2	49
51	A Measurement-Based Fading Model for Wireless Personal Area Networks. IEEE Transactions on Wireless Communications, 2008, 7, 4575-4585.	9.2	47
52	Modeling the Ultra-Wideband Outdoor Channel: Model Specification and Validation. IEEE Transactions on Wireless Communications, 2010, 9, 1987-1997.	9.2	45
53	Channel Hardening in Massive MIMO-A Measurement Based Analysis. , 2018, , .		45
54	Massive MIMO-Based Localization and Mapping Exploiting Phase Information of Multipath Components. IEEE Transactions on Wireless Communications, 2019, 18, 4254-4267.	9.2	45

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55	Efficient experimental evaluation of a MIMO handset with user influence. IEEE Transactions on Wireless Communications, 2010, 9, 853-863.	9.2	44
56	First Results from Car-to-Car and Car-to-Infrastructure Radio Channel Measurements at 5.2GHz. , 2007, , .		43
57	Multi-Link MIMO Channel Modeling Using Geometry-Based Approach. IEEE Transactions on Antennas and Propagation, 2012, 60, 587-596.	5.1	43
58	A Measurement-Based Multilink Shadowing Model for V2V Network Simulations of Highway Scenarios. IEEE Transactions on Vehicular Technology, 2017, 66, 8632-8643.	6.3	43
59	Non-WSSUS vehicular channel characterization in highway and urban scenarios at 5.2GHz using the local scattering function. , 2008, , .		42
60	Outdoor-to-Indoor Office MIMO Measurements and Analysis at 5.2 GHz. IEEE Transactions on Vehicular Technology, 2008, 57, 1374-1386.	6.3	40
61	A Dynamic Dual-Link Wideband MIMO Channel Sounder for 5.3 GHz. IEEE Transactions on Instrumentation and Measurement, 2010, 59, 873-883.	4.7	40
62	In-Tunnel Vehicular Radio Channel Characterization. , 2011, , .		38
63	Impact of Power Amplifier Nonlinearities in Multi-User Massive MIMO Downlink. , 2015, , .		38
64	A Microwave Imaging-Based Technique to Localize an In-Body RF Source for Biomedical Applications. IEEE Transactions on Biomedical Engineering, 2015, 62, 1231-1241.	4.2	38
65	Delay spread properties in a measured massive MIMO system at 2.6 GHz. , 2013, , .		37
66	Real-Time Geometry-Based Wireless Channel Emulation. IEEE Transactions on Vehicular Technology, 2019, 68, 1631-1645.	6.3	37
67	Spherical Vector Wave Expansion of Gaussian Electromagnetic Fields for Antenna-Channel Interaction Analysis. IEEE Transactions on Antennas and Propagation, 2009, 57, 2055-2067.	5.1	36
68	Directional Analysis of Vehicle-to-Vehicle Propagation Channels. , 2011, , .		36
69	Measurement-Based Analysis: The Effect of Complementary Antennas and Diversity on Vehicle-to-Vehicle Communication. IEEE Antennas and Wireless Propagation Letters, 2013, 12, 309-312.	4.0	36
70	Digital Predistortion for Multiuser Hybrid MIMO at mmWaves. IEEE Transactions on Signal Processing, 2020, 68, 3603-3618.	5.3	36
71	Validation of a non-line-of-sight path-loss model for V2V communications at street intersections. , 2013, , .		35
72	A Simulation Framework for Multiple-Antenna Terminals in 5G Massive MIMO Systems. IEEE Access, 2017, 5, 26819-26831.	4.2	35

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73	Spatial separation of closely-spaced users in measured massive multi-user MIMO channels. , 2015, , .		34
74	Positioning and Sensing for Vehicular Safety Applications in 5G and Beyond. IEEE Communications Magazine, 2021, 59, 15-21.	6.1	34
75	Propagation aspects of vehicle-to-vehicle communications - an overview. , 2009, , .		33
76	Propagation Characteristics of Dense Multipath Components. IEEE Antennas and Wireless Propagation Letters, 2010, 9, 791-794.	4.0	33
77	Antenna selection in measured massive MIMO channels using convex optimization. , 2013, , .		33
78	Radio Channel Properties for Vehicular Communication: Merging Lanes Versus Urban Intersections. IEEE Vehicular Technology Magazine, 2013, 8, 27-34.	3.4	32
79	The COST IRACON Geometry-Based Stochastic Channel Model for Vehicle-to-Vehicle Communication in Intersections. IEEE Transactions on Vehicular Technology, 2020, 69, 2365-2375.	6.3	32
80	Comparison of Ray Tracing and Channel-Sounder Measurements for Vehicular Communications. , 2013, , .		31
81	A Path Loss and Shadowing Model for Multilink Vehicle-to-Vehicle Channels in Urban Intersections. Sensors, 2018, 18, 4433.	3.8	31
82	Ultra-Wideband Communications using Hybrid Matched Filter Correlation Receivers. IEEE Transactions on Wireless Communications, 2006, 5, 3119-3129.	9.2	30
83	On the directional reciprocity of uplink and downlink channels in Frequency Division Duplex systems. , 2014, , .		30
84	Methane emission bursts from permafrost environments during autumn freezeâ€”in: New insights from groundâ€”penetrating radar. Geophysical Research Letters, 2015, 42, 6732-6738.	4.0	30
85	Impact of a truck as an obstacle on vehicle-to-vehicle communications in rural and highway scenarios. , 2014, , .		29
86	Statistical Modeling and Estimation of Censored Pathloss Data. IEEE Wireless Communications Letters, 2015, 4, 569-572.	5.0	29
87	Channel Hardening in Massive MIMO: Model Parameters and Experimental Assessment. IEEE Open Journal of the Communications Society, 2020, 1, 501-512.	6.9	29
88	Factor graph based simultaneous localization and mapping using multipath channel information. , 2017, , .		28
89	Physical modelling of multiple-input multiple-output antennas and channels by means of the spherical vector wave expansion. IET Microwaves, Antennas and Propagation, 2010, 4, 778.	1.4	27
90	Directional Analysis of Measured 60 GHz Indoor Radio Channels Using SAGE. , 2011, , .		26

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91	Characterization of a Computer Board-to-Board Ultra-Wideband Channel. IEEE Communications Letters, 2007, 11, 468-470.	4.1	25
92	Statistical Modeling of Ultrawideband MIMO Propagation Channel in a Warehouse Environment. IEEE Transactions on Antennas and Propagation, 2016, 64, 4049-4063.	5.1	24
93	Tracking of Wideband Multipath Components in a Vehicular Communication Scenario. IEEE Transactions on Vehicular Technology, 2017, 66, 15-25.	6.3	23
94	RadioWeaves for efficient connectivity: analysis and impact of constraints in actual deployments. , 2019, , .		23
95	Correlation Properties of Large Scale Parameters from 2.66 GHz Multi-Site Macro Cell Measurements. , 2011, , .		22
96	Tracking and positioning using phase information from estimated multi-path components. , 2015, , .		22
97	Spatial Separation of Closely-Located Users in Measured Massive MIMO Channels. IEEE Access, 2018, 6, 40253-40266.	4.2	22
98	Standardization of Propagation Models for Terrestrial Cellular Systems: A Historical Perspective. International Journal of Wireless Information Networks, 2021, 28, 20-44.	2.7	22
99	Localization of an RF source inside the Human body for Wireless Capsule Endoscopy. , 2013, , .		21
100	A Cluster-Based Analysis of Outdoor-to-Indoor Office MIMO Measurements at 5.2 GHz. , 2006, , .		19
101	Measurement-Based Evaluation of Interlink Correlation for Indoor Multiuser MIMO Channels. IEEE Antennas and Wireless Propagation Letters, 2010, 9, 311-314.	4.0	18
102	Geometry-Based Stochastic Channel Model for High-Speed Railway Communications. IEEE Transactions on Vehicular Technology, 2019, 68, 4353-4366.	6.3	18
103	Urban peer-to-peer MIMO channel measurements and analysis at 300 MHz. , 2008, , .		16
104	Single antenna anchor-free UWB positioning based on multipath propagation. , 2013, , .		16
105	Measurement Uncertainty, Channel Simulation, and Disturbance Characterization of an Over-the-Air Multiprobe Setup for Cars at 5.9 GHz. IEEE Transactions on Industrial Electronics, 2015, 62, 7859-7869.	7.9	16
106	Measurement-Based Wideband Analysis of Dynamic Multipath Propagation in Vehicular Communication Scenarios. IEEE Transactions on Vehicular Technology, 2017, 66, 4657-4667.	6.3	16
107	Utilizing Massive MIMO for the Tactile Internet: Advantages and Trade-Offs. , 2017, , .		16
108	Multi-dimensional K-factor analysis for V2V radio channels in open sub-urban street crossings. , 2010, , .		15

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109	Polarimetric Wireless Indoor Channel Modeling Based on Propagation Graph. IEEE Transactions on Antennas and Propagation, 2019, 67, 6585-6595.	5.1	15
110	Scatterer Detection by Successive Cancellation for UWB - Method and Experimental Verification. IEEE Vehicular Technology Conference, 2008, , .	0.4	14
111	Direction of arrival estimation with arbitrary virtual antenna arrays using low cost inertial measurement units. , 2013, , .		14
112	A geometry based stochastic model for MIMO V2V channel simulation in cross-junction scenario. , 2013, , .		14
113	Modeling the Polarimetric mm-Wave Propagation Channel Using Censored Measurements. , 2016, , .		14
114	Spatial Diversity and Spatial Correlation Evaluation of Measured Vehicle-to-Vehicle Radio Channels at 5.2 GHz. , 2009, , .		13
115	A MIMO channel model for wireless personal area networks. IEEE Transactions on Wireless Communications, 2010, 9, 245-255.	9.2	13
116	Measurements based channel characterization for vehicle-to-vehicle communications at merging lanes on highway. , 2013, , .		12
117	Line-of-Sight Obstruction Analysis for Vehicle-to-Vehicle Network Simulations in a Two-Lane Highway Scenario. International Journal of Antennas and Propagation, 2013, 2013, 1-9.	1.2	12
118	Modeling the cluster decay in mm-wave channels. , 2014, , .		12
119	Measurement-Based Multiple-Scattering Model of Small-Scale Fading in High-Speed Railway Cutting Scenarios. IEEE Antennas and Wireless Propagation Letters, 2017, 16, 1427-1430.	4.0	12
120	Dynamic Channel Model With Overhead Line Poles for High-Speed Railway Communications. IEEE Antennas and Wireless Propagation Letters, 2018, 17, 903-906.	4.0	12
121	Channel Measurements of an Indoor Office Scenario for Wireless Sensor Applications. , 2007, , .		11
122	Indoor-indoor and indoor-outdoor propagation trial results at 2.6 GHz. , 2012, , .		11
123	Large antenna array and propagation environment interaction. , 2014, , .		11
124	Transmission Schemes for Multiple Antenna Terminals in Real Massive MIMO Systems. , 2016, , .		11
125	Implementation of Low-Latency Signal Processing and Data Shuffling for TDD Massive MIMO Systems. , 2016, , .		11
126	Robust phase-based positioning using massive MIMO with limited bandwidth. , 2017, , .		11



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127	Virtual Drive Testing Over-the-Air for Vehicular Communications. IEEE Transactions on Vehicular Technology, 2020, 69, 1203-1213.	6.3	11
128	Pre-Compensation for Rayleigh Fading Channels in Time Division Duplex OFDM Systems. Wireless Personal Communications, 2001, 16, 21-33.	2.7	10
129	Evaluation of user hand and body impact on multiple antenna handset performance. , 2010, , .		10
130	Vehicle-to-vehicle channel models with large vehicle obstructions. , 2014, , .		10
131	Ultrawideband MIMO Channel Measurements and Modeling in a Warehouse Environment. , 2015, , .		10
132	Tightly coupled positioning and multipath radio channel tracking. IEEE Transactions on Aerospace and Electronic Systems, 2016, 52, 1522-1535.	4.7	10
133	Analysis of radio wave scattering processes for indoor MIMO channel models. , 2009, , .		9
134	On the cross-correlation properties of large-scale fading in distributed antenna systems. , 2014, , .		9
135	Stress Test of Vehicular Communication Transceivers Using Software Defined Radio. , 2015, , .		9
136	Geometrical Cluster-Based Scatterer Detection Method with the Movement of Mobile Terminal. , 2015, , .		9
137	WLC11-2: Propagation Channel Characteristics for Peer-to-Peer Multiple Antenna Systems at 300 MHz. IEEE Global Telecommunications Conference (GLOBECOM), 2006, , .	0.0	8
138	Estimation of Spherical Wave Coefficients From 3-D Positioner Channel Measurements. IEEE Antennas and Wireless Propagation Letters, 2012, 11, 608-611.	4.0	8
139	Experimental evaluation of the effect of BS antenna inter-element spacing on MU-MIMO separation. , 2015, , .		8
140	On the Use of Mpc Amplitude Information in Radio Signal Based Slam. , 2018, , .		8
141	Demo: Millimeter-Wave Massive MIMO Testbed with Hybrid Beamforming. , 2020, , .		8
142	Radio propagation modeling methods and tools. , 2021, , 7-48.		8
143	Shadowing Effects in MIMO Channels for Personal Area Networks. , 2006, , .		7
144	Measured Diversity Gains from MIMO Antenna Selection. , 2006, , .		7

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145	Simulation modelling and analysis of a realistic radio channel model for V2V communications. , 2010, , .		7
146	Modeling Time-Variant Fast Fading Statistics of Mobile Peer-to-Peer Radio Channels. , 2011, , .		7
147	Measurement based ray launching for analysis of outdoor propagation. , 2012, , .		7
148	Experimental Investigation of the Directional Outdoor-to-In-Car Propagation Channel. IEEE Transactions on Vehicular Technology, 2013, 62, 2532-2543.	6.3	7
149	Measurement-Based Analysis of Relaying Performance for Vehicle-to-Vehicle Communications with Large Vehicle Obstructions. , 2016, , .		7
150	Massive MIMO Optimization With Compatible Sets. IEEE Transactions on Wireless Communications, 2019, 18, 2794-2812.	9.2	7
151	Real-Time Deployment Aspects of C-Band and Millimeter-Wave 5G-NR Systems. , 2020, , .		7
152	Antenna subset selection in measured indoor channels. IET Microwaves, Antennas and Propagation, 2007, 1, 1092.	1.4	6
153	The Composite Channel Method: Efficient Experimental Evaluation of a Realistic MIMO Terminal in the Presence of a Human Body. IEEE Vehicular Technology Conference, 2008, , .	0.4	6
154	Optimal virtual array length under position imperfections. , 2014, , .		6
155	Sensor fused indoor positioning using dual band WiFi signal measurements. , 2015, , .		6
156	Multi-Switch for Antenna Selection in Massive MIMO. , 2014, , .		5
157	Propagation of Multipath Components at an Urban Intersection. , 2015, , .		5
158	Achievable Rates and Training Overheads for a Measured LOS Massive MIMO Channel. IEEE Wireless Communications Letters, 2018, 7, 594-597.	5.0	5
159	Real-Time Implementation Aspects of Large Intelligent Surfaces. , 2020, , .		5
160	Experimental Exploration of Unlicensed Sub-GHz Massive MIMO for Massive Internet-of-Things. IEEE Open Journal of the Communications Society, 2021, 2, 2195-2204.	6.9	5
161	Comparison of delay and angular spreads between channel measurements and the COST2100 channel model. , 2010, , .		4
162	Vehicle-to-Vehicle Communications. Signals and Communication Technology, 2012, , 577-608.	0.5	4

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163	Vehicle detection through wireless vehicular communication. Eurasip Journal on Wireless Communications and Networking, 2014, 2014, .	2.4	4
164	An effective subdivision algorithm for diffuse scattering of ray tracing. , 2014, , .		4
165	On the performance of random antenna arrays for direction of arrival estimation. , 2014, , .		4
166	Source localization using virtual antenna arrays. , 2015, , .		4
167	Propagation Channel in a Rural Overtaking Scenario with Large Obstructing Vehicles. , 2016, , .		4
168	Exploiting antenna correlation in measured massive MIMO channels. , 2016, , .		4
169	Estimating the Cross-Correlation Properties of Large-Scale Parameters in Multilink Distributed Antenna Systems: Synchronous Measurements Versus Repeated Measurements. IEEE Transactions on Vehicular Technology, 2017, 66, 7633-7642.	6.3	4
170	A model for power contributions from diffraction around a truck in vehicle-to-vehicle communications. , 2017, , .		4
171	Cross-Correlation of Large-Scale Parameters in Multi-Link Systems: Analysis Using the Box-Cox Transformation. IEEE Access, 2018, 6, 13555-13564.	4.2	4
172	Impact of Spatially Consistent Channels on Digital Beamforming for Millimeter-Wave Systems : (Invited) Tj ETQq0 0 0 rgBT /Overlock 10		4
173	Dynamic mmWave Channel Emulation in a Cost-Effective MPAC With Dominant-Cluster Concept. IEEE Transactions on Antennas and Propagation, 2022, 70, 4691-4704.	5.1	4
174	Detection and Tracking of Multipath Channel Parameters Using Belief Propagation. , 2020, , .		4
175	Millimeter-Wave Massive MIMO Testbed with Hybrid Beamforming. , 2020, , .		4
176	Capacity Evaluation of Measured Vehicle-to-Vehicle Radio Channels at 5.2 GHz. , 2010, , .		3
177	A receive/transmit calibration technique based on mutual coupling for massive MIMO base stations. , 2016, , .		3
178	Random Cluster Number Feature and Cluster Characteristics of Indoor Measurement at 28 GHz. IEEE Antennas and Wireless Propagation Letters, 2018, 17, 1881-1884.	4.0	3
179	Validation of a Real-Time Geometry-Based Stochastic Channel Model for Vehicular Scenarios. , 2018, , .		3
180	Geometry Based Channel Models with Cross- and Autocorrelation for Vehicular Network Simulations. , 2018, , .		3

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181	Spherical Wave Array Based Positioning for Vehicular Scenarios. IEEE Access, 2020, 8, 110073-110081.	4.2	3
182	Massive MIMO goes Sub-GHz: Implementation and Experimental Exploration for LPWANs. , 2020, , .		3
183	Feasibility Study of a Mm-Wave Impulse Radio Using Measured Radio Channels. , 2011, , .		2
184	Evaluation of an Outdoor-to-in-Car Radio Channel with a Four-Antenna Handset and a User Phantom. , 2011, , .		2
185	Indoor multi-user MIMO: Measured user orthogonality and its impact on the choice of coding. , 2012, , .		2
186	Universal medium range radar and IEEE 802.11p modem solution for integrated traffic safety. , 2013, , .		2
187	Non-Coherent Fourth-Order Detector for Impulse Radio Ultra Wideband Systems: Empirical Evaluation Using Channel Measurements. Wireless Personal Communications, 2013, 68, 27-46.	2.7	2
188	Analysis of Transmission Schemes for Dual-Antenna Terminals in Massive MIMO Systems. , 2018, , .		2
189	Simulation of Multiple-Antenna Terminal Performance in Massive MIMO Systems Based on Indoor Measurements. IEEE Transactions on Vehicular Technology, 2020, 69, 418-427.	6.3	2
190	SLAM using LTE Multipath Component Delays. , 2020, , .		2
191	Sensing and Classification Using Massive MIMO: A Tensor Decomposition-Based Approach. IEEE Wireless Communications Letters, 2021, 10, 2649-2653.	5.0	2
192	Implementation of spatially consistent channel models for real-time full stack C-ITS V2X simulations. , 2021, , .		2
193	A note on the Mean Effective Radiated Power and the Mean Effective Receiver Sensitivity of mobile handheld terminals. , 2008, , .		1
194	Temporal evolution of channel capacity in vehicular MIMO channels in the 5 GHz band. , 2010, , .		1
195	Performance Evaluation of Time-Reversal on Measured 60GHz Wireless Channels. Wireless Personal Communications, 2013, 71, 707-717.	2.7	1
196	Evaluation of the effect of base station antenna polarization on the performance of CoMP transmission techniques based on synchronous multi-link measurements. , 2016, , .		1
197	Performance Assessment for Distributed Broadband Radio Localization. , 2018, , .		1
198	A Case Study on the Influence of Multiple Users on the Effective Channel in a Massive MIMO System. IEEE Wireless Communications Letters, 2020, 9, 389-393.	5.0	1

#	ARTICLE	IF	CITATIONS
199	Moving Object Classification with a Sub-6 GHz Massive MIMO Array Using Real Data. , 2021, , .		1
200	Fading characterization in a semi-anechoic chamber with artificial scatterers for Mean Effective Gain measurements of wireless handheld terminals. , 2008, , .		0
201	A dual input-channel software defined receiver platform for GSM WCDMA and Wi-Fi. , 2011, , .		0
202	On the Probability of Non-Shared Multipath Clusters in Cellular Networks. IEEE Wireless Communications Letters, 2015, 4, 161-164.	5.0	0
203	A Generalized Method of Moments Detector for Block Fading SIMO Channels. IEEE Communications Letters, 2016, , 1-1.	4.1	0
204	Performance evaluation of CoMP transmission schemes using measurements versus the COST 2100 channel model. , 2016, , .		0
205	Amplitude and Phase Estimation for Absolute Calibration of Massive MIMO Front-Ends. , 2020, , .		0
206	Learning-Based UE Classification in Millimeter-Wave Cellular Systems with Mobility. , 2021, , .		0
207	mmWave Massive MIMO in Real Propagation Environment: Performance Evaluation Using LuMaMi28GHz. , 2021, , .		0