

Thomas Kuerner

List of Publications by Citations

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154
papers

3,919
citations

30
h-index

59
g-index

171
ext. papers

5,023
ext. citations

4.8
avg. IF

5.71
L-index

#	Paper	IF	Citations
154	. <i>IEEE Antennas and Propagation Magazine</i> , 2007 , 49, 24-39	1.7	349
153	. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2014 , 15, 2143-2158	6.1	280
152	Towards THz Communications - Status in Research, Standardization and Regulation. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , 2014 , 35, 53-62	2.2	212
151	Future railway services-oriented mobile communications network. <i>IEEE Communications Magazine</i> , 2015 , 53, 78-85	9.1	203
150	Scattering Analysis for the Modeling of THz Communication Systems. <i>IEEE Transactions on Antennas and Propagation</i> , 2007 , 55, 3002-3009	4.9	160
149	Stochastic Modeling of THz Indoor Radio Channels. <i>IEEE Transactions on Wireless Communications</i> , 2013 , 12, 4445-4455	9.6	141
148	On Millimeter Wave and THz Mobile Radio Channel for Smart Rail Mobility. <i>IEEE Transactions on Vehicular Technology</i> , 2017 , 66, 5658-5674	6.8	133
147	Diffraction in mm and Sub-mm Wave Indoor Propagation Channels. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2012 , 60, 833-844	4.1	114
146	Channel and Propagation Measurements at 300 GHz. <i>IEEE Transactions on Antennas and Propagation</i> , 2011 , 59, 1688-1698	4.9	113
145	Handover Parameter Optimization in LTE Self-Organizing Networks 2010 ,		110
144	Performance Analysis of Future Multigigabit Wireless Communication Systems at THz Frequencies With Highly Directive Antennas in Realistic Indoor Environments. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2008 , 14, 421-430	3.8	107
143	. <i>IEEE Transactions on Terahertz Science and Technology</i> , 2011 , 1, 462-472	3.4	105
142	The Design and Applications of High-Performance Ray-Tracing Simulation Platform for 5G and Beyond Wireless Communications: A Tutorial. <i>IEEE Communications Surveys and Tutorials</i> , 2019 , 21, 10-27	37.1	99
141	Towards MMIC-Based 300GHz Indoor Wireless Communication Systems. <i>IEICE Transactions on Electronics</i> , 2015 , E98.C, 1081-1090	0.4	81
140	Ultra broadband indoor channel measurements and calibrated ray tracing propagation modeling at THz frequencies. <i>Journal of Communications and Networks</i> , 2013 , 15, 547-558	4.1	74
139	Towards Realistic High-Speed Train Channels at 5G Millimeter-Wave BandPart I: Paradigm, Significance Analysis, and Scenario Reconstruction. <i>IEEE Transactions on Vehicular Technology</i> , 2018 , 67, 9112-9128	6.8	72
138	. <i>IEEE Transactions on Vehicular Technology</i> , 2014 , 63, 3499-3516	6.8	62

137	Simulation and Measurement-Based Vehicle-to-Vehicle Channel Characterization: Accuracy and Constraint Analysis. <i>IEEE Transactions on Antennas and Propagation</i> , 2015 , 63, 3208-3218	4.9	62
136	Stochastic Channel Modeling for Kiosk Applications in the Terahertz Band. <i>IEEE Transactions on Terahertz Science and Technology</i> , 2017 , 7, 502-513	3.4	59
135	Deterministic Propagation Modeling for the Realistic High-Speed Railway Environment 2013 ,		55
134	5-GHz Obstructed Vehicle-to-Vehicle Channel Characterization for Internet of Intelligent Vehicles. <i>IEEE Internet of Things Journal</i> , 2019 , 6, 100-110	10.7	48
133	Towards Realistic High-Speed Train Channels at 5G Millimeter-Wave Band Part II: Case Study for Paradigm Implementation. <i>IEEE Transactions on Vehicular Technology</i> , 2018 , 67, 9129-9144	6.8	47
132	IEEE 802.15.3d: First Standardization Efforts for Sub-Terahertz Band Communications toward 6G. <i>IEEE Communications Magazine</i> , 2020 , 58, 28-33	9.1	40
131	Propagation Measurements and Modeling of Crossing Bridges on High-Speed Railway at 930 MHz. <i>IEEE Transactions on Vehicular Technology</i> , 2014 , 63, 502-517	6.8	39
130	Analyzing human body shadowing at 60 GHz: Systematic wideband MIMO measurements and modeling approaches 2012 ,		38
129	Channel Characterization for Intra-Wagon Communication at 60 and 300 GHz Bands. <i>IEEE Transactions on Vehicular Technology</i> , 2019 , 68, 5193-5207	6.8	37
128	Reverberation and Absorption in an Aircraft Cabin With the Impact of Passengers. <i>IEEE Transactions on Antennas and Propagation</i> , 2012 , 60, 2472-2480	4.9	34
127	On the Influence of Scattering From Traffic Signs in Vehicle-to-X Communications. <i>IEEE Transactions on Vehicular Technology</i> , 2016 , 65, 5835-5849	6.8	33
126	Measurement, Simulation, and Characterization of Train-to-Infrastructure Inside-Station Channel at the Terahertz Band. <i>IEEE Transactions on Terahertz Science and Technology</i> , 2019 , 9, 291-306	3.4	33
125	Channel sounding techniques for applications in THz communications: A first correlation based channel sounder for ultra-wideband dynamic channel measurements at 300 GHz 2017 ,		31
124	Empirical Models for Extra Propagation Loss of Train Stations on High-Speed Railway. <i>IEEE Transactions on Antennas and Propagation</i> , 2014 , 62, 1395-1408	4.9	29
123	. <i>IEEE Transactions on Vehicular Technology</i> , 2016 , 1-1	6.8	27
122	Weighted Performance Based Handover Parameter Optimization in LTE 2011 ,		27
121	A dynamic 60 GHz radio channel model for system level simulations with MAC protocols for IEEE 802.11ad 2010 ,		26
120	The impact of antenna directivities on THz indoor channel characteristics 2012 ,		25

119	Comparison of Ray Tracing and Channel-Sounder Measurements for Vehicular Communications 2013,		23
118	Effects of Antenna Characteristics and Placements on a Vehicle-to-Vehicle Channel Scenario 2010,		23
117	Semi-Deterministic Path-Loss Modeling for Viaduct and Cutting Scenarios of High-Speed Railway. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2013 , 12, 789-792	3.8	22
116	Scenario modules, ray-tracing simulations and analysis of millimetre wave and terahertz channels for smart rail mobility. <i>IET Microwaves, Antennas and Propagation</i> , 2018 , 12, 501-508	1.6	21
115	Foliage Attenuation Over Mixed Terrains in Rural Areas for Broadband Wireless Access at 3.5 GHz. <i>IEEE Transactions on Antennas and Propagation</i> , 2011 , 59, 2698-2706	4.9	20
114	Vehicle-to-Vehicle IEEE 802.11p performance measurements at urban intersections 2012,		20
113	Scenario modules and ray-tracing simulations of millimeter wave and terahertz channels for smart rail mobility 2017,		19
112	Safety-Critical Driver Assistance Over LTE: Toward Centralized ACC. <i>IEEE Transactions on Vehicular Technology</i> , 2016 , 65, 9471-9478	6.8	17
111	Affection of THz indoor communication links by antenna misalignment 2012,		17
110	. <i>IEEE Vehicular Technology Magazine</i> , 2020 , 15, 136-143	9.9	16
109	Angular and RMS delay spread modeling in view of THz indoor communication systems. <i>Radio Science</i> , 2014 , 49, 242-251	1.4	15
108	A stochastic channel model for future wireless THz data centers 2015,		15
107	Physical Layer Performance Comparison of LTE and IEEE 802.11p for Vehicular Communication in an Urban NLOS Scenario 2014,		15
106	Performance Evaluation of Wiener Filter Designs for Channel Estimation in Vehicular Environments 2011,		14
105	. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2016 , 17, 2171-2181	6.1	13
104	SiMoNe - Simulator for Mobile Networks: System-Level Simulations in the Context of Realistic Scenarios 2015,		13
103	Radiowave Propagation Prediction in Vegetated Residential Environments. <i>IEEE Transactions on Vehicular Technology</i> , 2013 , 62, 486-499	6.8	13
102	Calibration of a UWB Sub-Band Channel Model Using Simulated Annealing. <i>IEEE Transactions on Antennas and Propagation</i> , 2009 , 57, 3439-3443	4.9	13

101	Coupling of simulators for the investigation of car-to-x communication aspects 2009 ,		13
100	Testbed for phased array communications from 275 to 325 GHz 2017 ,		12
99	Measurements and Modeling of Basic Propagation Characteristics for Intra-Device Communications at 60 GHz and 300 GHz. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , 2015 , 36, 144-158	2.2	12
98	Analysis of Channel Parameters for Different Antenna Configurations in Vehicular Environments 2010 ,		12
97	Channel Measurements and Modeling for Low-Terahertz Band Vehicular Communications. <i>IEEE Journal on Selected Areas in Communications</i> , 2021 , 39, 1590-1603	14.2	12
96	. <i>IEEE Transactions on Vehicular Technology</i> , 2016 , 65, 5874-5886	6.8	11
95	Excess Propagation Loss of Semi-Closed Obstacles for Inter/Intra-Device Communications in the Millimeter-Wave Range. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , 2016 , 37, 676-690	2.2	11
94	An Analytical 3D Ray-Launching Method Using Arbitrary Polygonal Shapes for Wireless Propagation Prediction 2014 ,		11
93	On the Impact of the Results of WRC 2019 on THz Communications 2020 ,		11
92	Channel Sounding and Ray Tracing for Intrawagon Scenario at mmWave and Sub-mmWave Bands. <i>IEEE Transactions on Antennas and Propagation</i> , 2021 , 69, 1007-1019	4.9	11
91	Statistical Characteristics Study of Human Blockage Effect in Future Indoor Millimeter and Sub-Millimeter Wave Wireless Communications 2018 ,		10
90	Measurements of Reflection and Penetration Losses in Low Terahertz Band Vehicular Communications 2020 ,		10
89	Impact of modulation type and baud rate on a 300GHz fixed wireless link 2017 ,		9
88	Cooperative Dynamic Angle of Arrival Estimation Considering SpaceTime Correlations for Terahertz Communications. <i>IEEE Transactions on Wireless Communications</i> , 2018 , 17, 6029-6041	9.6	9
87	Reflection and transmission properties of plastic materials at THz frequencies 2013 ,		9
86	Challenges and chances for smart rail mobility at mmWave and THz bands from the channels viewpoint 2017 ,		9
85	Building an end user focused THz based ultra high bandwidth wireless access network: The TERAPOD approach 2017 ,		9
84	Spatial Traffic Distributions for Cellular Networks with Time Varying Usage Intensities Per Land-Use Class 2014 ,		9

83	Indoor to outdoor propagation [Measuring and modeling of femto cells in LTE networks at 800 and 2600 MHz 2011 ,		9
82	A Data Traffic Steering Algorithm for IEEE 802.11p/LTE Hybrid Vehicular Networks 2016 ,		9
81	Simulation and Automatic Planning of 300 GHz Backhaul Links 2019 ,		9
80	Impact of Realistic Pedestrian Mobility Modelling in the Context of Mobile Network Simulation Scenarios 2015 ,		8
79	Fast beam searching concept for indoor Terahertz communications 2014 ,		8
78	Predictive Communication and Its Application to Vehicular Environments: Doppler-Shift Compensation. <i>IEEE Transactions on Vehicular Technology</i> , 2018 , 67, 7380-7393	6.8	8
77	Performance and Optimization of Reconfigurable Intelligent Surface Aided THz Communications. <i>IEEE Transactions on Communications</i> , 2022 , 1-1	6.9	8
76	Power-Angular Spectra Correlation Based Two Step Angle of Arrival Estimation for Future Indoor Terahertz Communications. <i>IEEE Transactions on Antennas and Propagation</i> , 2019 , 67, 7097-7105	4.9	7
75	Outdoor-to-indoor propagation [Accurate measuring and modelling of indoor environments at 900 and 1800 MHz 2012 ,		7
74	Channel Characterization and Capacity Analysis for THz Communication Enabled Smart Rail Mobility. <i>IEEE Transactions on Vehicular Technology</i> , 2021 , 70, 4065-4080	6.8	7
73	THz Communications: Challenges and Applications beyond 100 Gbit/s 2018 ,		7
72	LTE link level performance evaluation using stochastic channel models for V2X communication 2015 ,		6
71	3D ray-tracing embedded into an integrated simulator for car-to-X communications 2010 ,		6
70	MRC performance benefit in V2V communication systems in urban traffic scenarios 2012 ,		6
69	Ray-Tracing Modeling 2012 , 269-292		6
68	An Overview of Ongoing Activities in the Field of Channel Modeling, Spectrum Allocation and Standardization for mm-Wave and THz Indoor Communications 2009 ,		6
67	. <i>IEEE Transactions on Vehicular Technology</i> , 2010 , 59, 3491-3500	6.8	6
66	Angle of arrival estimation in dynamic indoor THz channels with Bayesian filter and reinforcement learning 2016 ,		6

65	Channel modeling for Kiosk downloading communication system at 300 GHz 2017 ,		5
64	Exploration of Centralized Car2X-Systems over LTE 2015 ,		5
63	Propagation prediction for composite scenarios of dense semi-closed obstacles in high-speed railway 2014 ,		5
62	Managing and altering mobile radio networks by using SON function performance models 2014 ,		5
61	Effects of Carrier Frequency, Antenna Height and Season on Broadband Wireless Access in Rural Areas. <i>IEEE Transactions on Antennas and Propagation</i> , 2012 , 60, 3432-3443	4-9	5
60	Modeling of Femto Cells - Simulation of Interference and Handovers in LTE Networks 2011 ,		5
59	Linear Diversity Combining Techniques Employed in Car-to-X Communication Systems 2011 ,		5
58	Application of ray tracing to derive channel models for future multi-gigabit systems 2009 ,		5
57	Indoor-to-Outdoor Path Loss Measurements in an Aircraft for Terahertz Communications 2020 ,		5
56	Sidelink Technologies Comparison for Highway High-Density Platoon Emergency Braking 2018 ,		5
55	Wireless Communications in Smart Rail Transportation Systems. <i>Wireless Communications and Mobile Computing</i> , 2017 , 2017, 1-10	1-9	4
54	Channel characteristics study for future indoor millimeter and submillimeter wireless communications 2016 ,		4
53	On Building Realistic Reference Scenarios for IEEE 802.11p/LTE-Based Vehicular Network Evaluations 2018 ,		4
52	Effects of phase shift errors on the antenna directivity of phased arrays in indoor terahertz communications 2014 ,		4
51	Time-Domain propagation investigations for Terahertz intra-device communications 2014 ,		4
50	Modeling tree scattering in rural residential areas at 3.5 GHz. <i>Radio Science</i> , 2014 , 49, 44-52	1-4	4
49	Sensor-based communication prediction for dynamic Doppler-shift compensation 2017 ,		4
48	Performance of prediction models in suburban/rural residential areas at 860, 2300 and 3500 MHz 2012 ,		4

47	Performance evaluation of 60 GHz WLAN antennas under realistic propagation conditions with human shadowing 2011 ,		4
46	Simulator for the analysis of the mutual impact between indoor femtocells and urban macrocells 2012 ,		4
45	UWB propagation channels within an aircraft and an office building environment 2008 ,		4
44	2020 ,		4
43	The Urban Hannover Scenario - Realistic 3D Pathloss Predictions and Mobility Patterns 2016 ,		4
42	Tri-Band Mm-wave Directional Channel Measurements in Indoor Environment 2018 ,		4
41	A model for the reflection of terahertz signals from printed circuit board surfaces. <i>International Journal of Microwave and Wireless Technologies</i> , 2018 , 10, 179-186	0.8	3
40	Classification of Cells Based on Mobile Network Context Information for the Management of SON Systems 2015 ,		3
39	Automated modelling of realistic multi-storey buildings and the impact of windows on small cell propagation 2014 ,		3
38	2013 ,		3
37	Influence of Positioning Error on X-Map Estimation in LTE 2011 ,		3
36	Modeling and Performance Analyses of Hybrid Cellular and Broadcasting Networks. <i>International Journal of Digital Multimedia Broadcasting</i> , 2009 , 2009, 1-9	0.8	3
35	Satellite digital broadcast services to handheld DVB-SH: The complementary ground component. <i>International Journal of Satellite Communications and Networking</i> , 2009 , 27, 241-274	1.7	3
34	Millimeter-Wave and Terahertz Fixed Wireless Link Budget Evaluation for Extreme Weather Conditions. <i>IEEE Access</i> , 2021 , 9, 163476-163491	3.5	3
33	Towards Propagation and Channel Models for the Simulation and Planning of 300 GHz Backhaul/Fronthaul Links 2020 ,		3
32	Impact of SON function combinations on the KPI behaviour in realistic mobile network scenarios 2018 ,		2
31	SON management demonstrator 2014 ,		2
30	Special issue on THz communications. <i>Journal of Communications and Networks</i> , 2013 , 15, 543-546	4.1	2

29	Automated modelling of realistic indoor walls in the context of small cell propagation 2014,		2
28	Ray-tracing approach versus double difference, multipath characterization in a multiple ray scenario 2012,		2
27	Towards a Performance Boundary in Calibrating Indoor Ray Tracing Models. <i>Eurasip Journal on Wireless Communications and Networking</i> , 2009, 2009,	3.2	2
26	Impact of Correlated Group Mobility Modelling in the Context of Realistic Mobile Network Simulation Scenarios 2016,		2
25	Link-Level and System-Level Simulation of 300 GHz wireless Backhaul Links 2021,		2
24	Stochastic Channel Parameters for Train-to-Train Communications. <i>IEEE Open Journal of Antennas and Propagation</i> , 2021, 2, 778-792	1.9	2
23	Angle of Arrival and Angle of Departure Estimation Using Compressed Sensing for Terahertz Communications 2021,		2
22	Propagation Models for Wireless Network Planning 317-347		2
21	Performance analysis of 300 GHz backhaul links using historic weather data. <i>Advances in Radio Science</i> , 19, 153-163		2
20	On propagation characteristics of waveguide-like ABS-structures in 60 and 300 GHz communications 2013,		1
19	Investigation on the influence of diffraction by wedges in satellite navigation systems 2014,		1
18	(m,n)-Relaying as an Alternative to Base Station Cooperation for Cellular OFDMA Networks 2011,		1
17	Spectrum optimization in DVB-H single frequency networks with local service areas 2008,		1
16	Electromagnetic Parameter Calibration for a Broadband Ray-Launching Simulator With SAGE Algorithm for Millimeter-Wave Communications. <i>IEEE Access</i> , 2020, 8, 138331-138339	3.5	1
15	Effects of Hyper-Dense Small-Cell Network Deployments on a Realistic Urban Environment 2016,		1
14	Evolution from network planning to SON management using the simulator for mobile networks (SiMoNe) 2016,		1
13	Cover Letter for the Special Issue on THz Communications. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , 2015, 36, 95-96	2.2	0
12	Radio Wave Propagation and Wireless Channel Modeling 2013. <i>International Journal of Antennas and Propagation</i> , 2014, 2014, 1-2	1.2	0

11	Radio Wave Propagation and Wireless Channel Modeling. <i>International Journal of Antennas and Propagation</i> , 2013 , 2013, 1-3	1.2	o
10	Spectrum for THz Communications. <i>Springer Series in Optical Sciences</i> , 2022 , 515-527	0.5	o
9	Standards for THz Communications. <i>Springer Series in Optical Sciences</i> , 2022 , 503-514	0.5	o
8	Simulation of GPS localisation based on ray tracing. <i>Advances in Radio Science</i> , 19 , 85-92		o
7	Introduction to THz Communications. <i>Springer Series in Optical Sciences</i> , 2022 , 1-12	0.5	o
6	Multihop relaying for broadband wireless access systems at 800 and 3500 MHz in rural areas. <i>Radio Science</i> , 2014 , 49, 106-117	1.4	
5	Wireless Communications in Transportation Systems. <i>Wireless Communications and Mobile Computing</i> , 2017 , 2017, 1-2	1.9	
4	Vehicular Environments. <i>Springer Series in Optical Sciences</i> , 2022 , 139-145	0.5	
3	Appendix B: X-Map Estimation for LTE273-277		
2	Outlook on Standardization and Regulation. <i>Springer Series in Optical Sciences</i> , 2022 , 529-531	0.5	
1	Diffraction and Blockage. <i>Springer Series in Optical Sciences</i> , 2022 , 75-84	0.5	