

# Thomas Kuerner

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Vehicular Environments. <i>Springer Series in Optical Sciences</i> , <b>2022</b> , 139-145	0.5	
153	Performance and Optimization of Reconfigurable Intelligent Surface Aided THz Communications. <i>IEEE Transactions on Communications</i> , <b>2022</b> , 1-1	6.9	8
152	Outlook on Standardization and Regulation. <i>Springer Series in Optical Sciences</i> , <b>2022</b> , 529-531	0.5	
151	Spectrum for THz Communications. <i>Springer Series in Optical Sciences</i> , <b>2022</b> , 515-527	0.5	0
150	Standards for THz Communications. <i>Springer Series in Optical Sciences</i> , <b>2022</b> , 503-514	0.5	0
149	Diffraction and Blockage. <i>Springer Series in Optical Sciences</i> , <b>2022</b> , 75-84	0.5	
148	Introduction to THz Communications. <i>Springer Series in Optical Sciences</i> , <b>2022</b> , 1-12	0.5	0
147	Millimeter-Wave and Terahertz Fixed Wireless Link Budget Evaluation for Extreme Weather Conditions. <i>IEEE Access</i> , <b>2021</b> , 9, 163476-163491	3.5	3
146	Channel Characterization and Capacity Analysis for THz Communication Enabled Smart Rail Mobility. <i>IEEE Transactions on Vehicular Technology</i> , <b>2021</b> , 70, 4065-4080	6.8	7
145	Channel Measurements and Modeling for Low-Terahertz Band Vehicular Communications. <i>IEEE Journal on Selected Areas in Communications</i> , <b>2021</b> , 39, 1590-1603	14.2	12
144	Channel Sounding and Ray Tracing for Intrawagon Scenario at mmWave and Sub-mmWave Bands. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2021</b> , 69, 1007-1019	4.9	11
143	Link-Level and System-Level Simulation of 300 GHz wireless Backhaul Links <b>2021</b> ,		2
142	Stochastic Channel Parameters for Train-to-Train Communications. <i>IEEE Open Journal of Antennas and Propagation</i> , <b>2021</b> , 2, 778-792	1.9	2
141	Angle of Arrival and Angle of Departure Estimation Using Compressed Sensing for Terahertz Communications <b>2021</b> ,		2
140	. <i>IEEE Vehicular Technology Magazine</i> , <b>2020</b> , 15, 136-143	9.9	16
139	Towards Propagation and Channel Models for the Simulation and Planning of 300 GHz Backhaul/Fronthaul Links <b>2020</b> ,		3
138	<b>2020</b> ,		4

137	Indoor-to-Outdoor Path Loss Measurements in an Aircraft for Terahertz Communications <b>2020</b> ,		5
136	Measurements of Reflection and Penetration Losses in Low Terahertz Band Vehicular Communications <b>2020</b> ,		10
135	On the Impact of the Results of WRC 2019 on THz Communications <b>2020</b> ,		11
134	Electromagnetic Parameter Calibration for a Broadband Ray-Launching Simulator With SAGE Algorithm for Millimeter-Wave Communications. <i>IEEE Access</i> , <b>2020</b> , 8, 138331-138339	3.5	1
133	IEEE 802.15.3d: First Standardization Efforts for Sub-Terahertz Band Communications toward 6G. <i>IEEE Communications Magazine</i> , <b>2020</b> , 58, 28-33	9.1	40
132	Channel Characterization for Intra-Wagon Communication at 60 and 300 GHz Bands. <i>IEEE Transactions on Vehicular Technology</i> , <b>2019</b> , 68, 5193-5207	6.8	37
131	Measurement, Simulation, and Characterization of Train-to-Infrastructure Inside-Station Channel at the Terahertz Band. <i>IEEE Transactions on Terahertz Science and Technology</i> , <b>2019</b> , 9, 291-306	3.4	33
130	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> , <b>2019</b> , 21, 10-27	37.1	99
129	Power-Angular Spectra Correlation Based Two Step Angle of Arrival Estimation for Future Indoor Terahertz Communications. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2019</b> , 67, 7097-7105	4.9	7
128	Simulation and Automatic Planning of 300 GHz Backhaul Links <b>2019</b> ,		9
127	5-GHz Obstructed Vehicle-to-Vehicle Channel Characterization for Internet of Intelligent Vehicles. <i>IEEE Internet of Things Journal</i> , <b>2019</b> , 6, 100-110	10.7	48
126	A model for the reflection of terahertz signals from printed circuit board surfaces. <i>International Journal of Microwave and Wireless Technologies</i> , <b>2018</b> , 10, 179-186	0.8	3
125	Statistical Characteristics Study of Human Blockage Effect in Future Indoor Millimeter and Sub-Millimeter Wave Wireless Communications <b>2018</b> ,		10
124	On Building Realistic Reference Scenarios for IEEE 802.11p/LTE-Based Vehicular Network Evaluations <b>2018</b> ,		4
123	Cooperative Dynamic Angle of Arrival Estimation Considering Space-Time Correlations for Terahertz Communications. <i>IEEE Transactions on Wireless Communications</i> , <b>2018</b> , 17, 6029-6041	9.6	9
122	Impact of SON function combinations on the KPI behaviour in realistic mobile network scenarios <b>2018</b> ,		2
121	Scenario modules, ray-tracing simulations and analysis of millimetre wave and terahertz channels for smart rail mobility. <i>IET Microwaves, Antennas and Propagation</i> , <b>2018</b> , 12, 501-508	1.6	21
120	Tri-Band Mm-wave Directional Channel Measurements in Indoor Environment <b>2018</b> ,		4

119	THz Communications: Challenges and Applications beyond 100 Gbit/s <b>2018</b> ,		7
118	Sidelink Technologies Comparison for Highway High-Density Platoon Emergency Braking <b>2018</b> ,		5
117	Towards Realistic High-Speed Train Channels at 5G Millimeter-Wave Band Part I: Paradigm, Significance Analysis, and Scenario Reconstruction. <i>IEEE Transactions on Vehicular Technology</i> , <b>2018</b> , 67, 9112-9128	6.8	72
116	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> , <b>2018</b> , 67, 9129-9144	6.8	47
115	Predictive Communication and Its Application to Vehicular Environments: Doppler-Shift Compensation. <i>IEEE Transactions on Vehicular Technology</i> , <b>2018</b> , 67, 7380-7393	6.8	8
114	Channel modeling for Kiosk downloading communication system at 300 GHz <b>2017</b> ,		5
113	Scenario modules and ray-tracing simulations of millimeter wave and terahertz channels for smart rail mobility <b>2017</b> ,		19
112	Impact of modulation type and baud rate on a 300GHz fixed wireless link <b>2017</b> ,		9
111	Wireless Communications in Smart Rail Transportation Systems. <i>Wireless Communications and Mobile Computing</i> , <b>2017</b> , 2017, 1-10	1.9	4
110	Sensor-based communication prediction for dynamic Doppler-shift compensation <b>2017</b> ,		4
109	Stochastic Channel Modeling for Kiosk Applications in the Terahertz Band. <i>IEEE Transactions on Terahertz Science and Technology</i> , <b>2017</b> , 7, 502-513	3-4	59
108	Challenges and chances for smart rail mobility at mmWave and THz bands from the channels viewpoint <b>2017</b> ,		9
107	On Millimeter Wave and THz Mobile Radio Channel for Smart Rail Mobility. <i>IEEE Transactions on Vehicular Technology</i> , <b>2017</b> , 66, 5658-5674	6.8	133
106	Testbed for phased array communications from 275 to 325 GHz <b>2017</b> ,		12
105	Channel sounding techniques for applications in THz communications: A first correlation based channel sounder for ultra-wideband dynamic channel measurements at 300 GHz <b>2017</b> ,		31
104	Building an end user focused THz based ultra high bandwidth wireless access network: The TERAPOD approach <b>2017</b> ,		9
103	Wireless Communications in Transportation Systems. <i>Wireless Communications and Mobile Computing</i> , <b>2017</b> , 2017, 1-2	1.9	
102	On the Influence of Scattering From Traffic Signs in Vehicle-to-X Communications. <i>IEEE Transactions on Vehicular Technology</i> , <b>2016</b> , 65, 5835-5849	6.8	33

101	. <i>IEEE Transactions on Vehicular Technology</i> , <b>2016</b> , 65, 5874-5886	6.8	11
100	Safety-Critical Driver Assistance Over LTE: Toward Centralized ACC. <i>IEEE Transactions on Vehicular Technology</i> , <b>2016</b> , 65, 9471-9478	6.8	17
99	. <i>IEEE Transactions on Vehicular Technology</i> , <b>2016</b> , 1-1	6.8	27
98	Channel characteristics study for future indoor millimeter and submillimeter wireless communications <b>2016</b> ,		4
97	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> , <b>2016</b> , 37, 676-690	2.2	11
96	. <i>IEEE Transactions on Intelligent Transportation Systems</i> , <b>2016</b> , 17, 2171-2181	6.1	13
95	A Data Traffic Steering Algorithm for IEEE 802.11p/LTE Hybrid Vehicular Networks <b>2016</b> ,		9
94	Impact of Correlated Group Mobility Modelling in the Context of Realistic Mobile Network Simulation Scenarios <b>2016</b> ,		2
93	The Urban Hannover Scenario - Realistic 3D Pathloss Predictions and Mobility Patterns <b>2016</b> ,		4
92	Effects of Hyper-Dense Small-Cell Network Deployments on a Realistic Urban Environment <b>2016</b> ,		1
91	Evolution from network planning to SON management using the simulator for mobile networks (SiMoNe) <b>2016</b> ,		1
90	Angle of arrival estimation in dynamic indoor THz channels with Bayesian filter and reinforcement learning <b>2016</b> ,		6
89	Impact of Realistic Pedestrian Mobility Modelling in the Context of Mobile Network Simulation Scenarios <b>2015</b> ,		8
88	Future railway services-oriented mobile communications network. <i>IEEE Communications Magazine</i> , <b>2015</b> , 53, 78-85	9.1	203
87	Exploration of Centralized Car2X-Systems over LTE <b>2015</b> ,		5
86	Towards MMIC-Based 300GHz Indoor Wireless Communication Systems. <i>IEICE Transactions on Electronics</i> , <b>2015</b> , E98.C, 1081-1090	0.4	81
85	A stochastic channel model for future wireless THz data centers <b>2015</b> ,		15
84	Simulation and Measurement-Based Vehicle-to-Vehicle Channel Characterization: Accuracy and Constraint Analysis. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2015</b> , 63, 3208-3218	4.9	62

83	Classification of Cells Based on Mobile Network Context Information for the Management of SON Systems <b>2015</b> ,		3
82	SiMoNe - Simulator for Mobile Networks: System-Level Simulations in the Context of Realistic Scenarios <b>2015</b> ,		13
81	LTE link level performance evaluation using stochastic channel models for V2X communication <b>2015</b> ,		6
80	Cover Letter for the Special Issue on THz Communications. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , <b>2015</b> , 36, 95-96	2.2	0
79	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> , <b>2015</b> , 36, 144-158	2.2	12
78	Towards THz Communications - Status in Research, Standardization and Regulation. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , <b>2014</b> , 35, 53-62	2.2	212
77	Propagation Measurements and Modeling of Crossing Bridges on High-Speed Railway at 930 MHz. <i>IEEE Transactions on Vehicular Technology</i> , <b>2014</b> , 63, 502-517	6.8	39
76	. <i>IEEE Transactions on Vehicular Technology</i> , <b>2014</b> , 63, 3499-3516	6.8	62
75	Effects of phase shift errors on the antenna directivity of phased arrays in indoor terahertz communications <b>2014</b> ,		4
74	Time-Domain propagation investigations for Terahertz intra-device communications <b>2014</b> ,		4
73	SON management demonstrator <b>2014</b> ,		2
72	Multihop relaying for broadband wireless access systems at 800 and 3500 MHz in rural areas. <i>Radio Science</i> , <b>2014</b> , 49, 106-117	1.4	
71	. <i>IEEE Transactions on Intelligent Transportation Systems</i> , <b>2014</b> , 15, 2143-2158	6.1	280
70	Angular and RMS delay spread modeling in view of THz indoor communication systems. <i>Radio Science</i> , <b>2014</b> , 49, 242-251	1.4	15
69	Modeling tree scattering in rural residential areas at 3.5 GHz. <i>Radio Science</i> , <b>2014</b> , 49, 44-52	1.4	4
68	Empirical Models for Extra Propagation Loss of Train Stations on High-Speed Railway. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2014</b> , 62, 1395-1408	4.9	29
67	Propagation prediction for composite scenarios of dense semi-closed obstacles in high-speed railway <b>2014</b> ,		5
66	Radio Wave Propagation and Wireless Channel Modeling 2013. <i>International Journal of Antennas and Propagation</i> , <b>2014</b> , 2014, 1-2	1.2	0

65	Automated modelling of realistic multi-storey buildings and the impact of windows on small cell propagation <b>2014,</b>		3
64	Fast beam searching concept for indoor Terahertz communications <b>2014,</b>		8
63	An Analytical 3D Ray-Launching Method Using Arbitrary Polygonal Shapes for Wireless Propagation Prediction <b>2014,</b>		11
62	Managing and altering mobile radio networks by using SON function performance models <b>2014,</b>		5
61	Spatial Traffic Distributions for Cellular Networks with Time Varying Usage Intensities Per Land-Use Class <b>2014,</b>		9
60	Physical Layer Performance Comparison of LTE and IEEE 802.11p for Vehicular Communication in an Urban NLOS Scenario <b>2014,</b>		15
59	Automated modelling of realistic indoor walls in the context of small cell propagation <b>2014,</b>		2
58	Investigation on the influence of diffraction by wedges in satellite navigation systems <b>2014,</b>		1
57	Stochastic Modeling of THz Indoor Radio Channels. <i>IEEE Transactions on Wireless Communications</i> , <b>2013</b> , 12, 4445-4455	9.6	141
56	Semi-Deterministic Path-Loss Modeling for Viaduct and Cutting Scenarios of High-Speed Railway. <i>IEEE Antennas and Wireless Propagation Letters</i> , <b>2013</b> , 12, 789-792	3.8	22
55	On propagation characteristics of waveguide-like ABS-structures in 60 and 300 GHz communications <b>2013,</b>		1
54	Special issue on THz communications. <i>Journal of Communications and Networks</i> , <b>2013</b> , 15, 543-546	4.1	2
53	Reflection and transmission properties of plastic materials at THz frequencies <b>2013,</b>		9
52	Radiowave Propagation Prediction in Vegetated Residential Environments. <i>IEEE Transactions on Vehicular Technology</i> , <b>2013</b> , 62, 486-499	6.8	13
51	Ultra broadband indoor channel measurements and calibrated ray tracing propagation modeling at THz frequencies. <i>Journal of Communications and Networks</i> , <b>2013</b> , 15, 547-558	4.1	74
50	<b>2013,</b>		3
49	Comparison of Ray Tracing and Channel-Sounder Measurements for Vehicular Communications <b>2013,</b>		23
48	Deterministic Propagation Modeling for the Realistic High-Speed Railway Environment <b>2013,</b>		55

47	Radio Wave Propagation and Wireless Channel Modeling. <i>International Journal of Antennas and Propagation</i> , <b>2013</b> , 2013, 1-3	1.2	0
46	Outdoor-to-indoor propagation [Accurate measuring and modelling of indoor environments at 900 and 1800 MHz <b>2012</b> ,		7
45	Reverberation and Absorption in an Aircraft Cabin With the Impact of Passengers. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2012</b> , 60, 2472-2480	4.9	34
44	The impact of antenna directivities on THz indoor channel characteristics <b>2012</b> ,		25
43	Effects of Carrier Frequency, Antenna Height and Season on Broadband Wireless Access in Rural Areas. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2012</b> , 60, 3432-3443	4.9	5
42	Analyzing human body shadowing at 60 GHz: Systematic wideband MIMO measurements and modeling approaches <b>2012</b> ,		38
41	Performance of prediction models in suburban/rural residential areas at 860, 2300 and 3500 MHz <b>2012</b> ,		4
40	Diffraction in mm and Sub-mm Wave Indoor Propagation Channels. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2012</b> , 60, 833-844	4.1	114
39	Affection of THz indoor communication links by antenna misalignment <b>2012</b> ,		17
38	Simulator for the analysis of the mutual impact between indoor femtocells and urban macrocells <b>2012</b> ,		4
37	MRC performance benefit in V2V communication systems in urban traffic scenarios <b>2012</b> ,		6
36	Ray-tracing approach versus double difference, multipath characterization in a multiple ray scenario <b>2012</b> ,		2
35	Vehicle-to-Vehicle IEEE 802.11p performance measurements at urban intersections <b>2012</b> ,		20
34	Ray-Tracing Modeling <b>2012</b> , 269-292		6
33	Influence of Positioning Error on X-Map Estimation in LTE <b>2011</b> ,		3
32	Modeling of Femto Cells - Simulation of Interference and Handovers in LTE Networks <b>2011</b> ,		5
31	Channel and Propagation Measurements at 300 GHz. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2011</b> , 59, 1688-1698	4.9	113
30	. <i>IEEE Transactions on Terahertz Science and Technology</i> , <b>2011</b> , 1, 462-472	3.4	105



29	Weighted Performance Based Handover Parameter Optimization in LTE <b>2011</b> ,		27
28	(m,n)-Relaying as an Alternative to Base Station Cooperation for Cellular OFDMA Networks <b>2011</b> ,		1
27	Foliage Attenuation Over Mixed Terrains in Rural Areas for Broadband Wireless Access at 3.5 GHz. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2011</b> , 59, 2698-2706	4.9	20
26	Indoor to outdoor propagation [Measuring and modeling of femto cells in LTE networks at 800 and 2600 MHz <b>2011</b> ,		9
25	Performance Evaluation of Wiener Filter Designs for Channel Estimation in Vehicular Environments <b>2011</b> ,		14
24	Linear Diversity Combining Techniques Employed in Car-to-X Communication Systems <b>2011</b> ,		5
23	Performance evaluation of 60 GHz WLAN antennas under realistic propagation conditions with human shadowing <b>2011</b> ,		4
22	A dynamic 60 GHz radio channel model for system level simulations with MAC protocols for IEEE 802.11ad <b>2010</b> ,		26
21	3D ray-tracing embedded into an integrated simulator for car-to-X communications <b>2010</b> ,		6
20	Effects of Antenna Characteristics and Placements on a Vehicle-to-Vehicle Channel Scenario <b>2010</b> ,		23
19	Analysis of Channel Parameters for Different Antenna Configurations in Vehicular Environments <b>2010</b> ,		12
18	Handover Parameter Optimization in LTE Self-Organizing Networks <b>2010</b> ,		110
17	. <i>IEEE Transactions on Vehicular Technology</i> , <b>2010</b> , 59, 3491-3500	6.8	6
16	Modeling and Performance Analyses of Hybrid Cellular and Broadcasting Networks. <i>International Journal of Digital Multimedia Broadcasting</i> , <b>2009</b> , 2009, 1-9	0.8	3
15	Calibration of a UWB Sub-Band Channel Model Using Simulated Annealing. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2009</b> , 57, 3439-3443	4.9	13
14	Satellite digital broadcast services to handheld DVB-SH: The complementary ground component. <i>International Journal of Satellite Communications and Networking</i> , <b>2009</b> , 27, 241-274	1.7	3
13	Coupling of simulators for the investigation of car-to-x communication aspects <b>2009</b> ,		13
12	Application of ray tracing to derive channel models for future multi-gigabit systems <b>2009</b> ,		5

11	An Overview of Ongoing Activities in the Field of Channel Modeling, Spectrum Allocation and Standardization for mm-Wave and THz Indoor Communications <b>2009</b> ,		6
10	Towards a Performance Boundary in Calibrating Indoor Ray Tracing Models. <i>Eurasip Journal on Wireless Communications and Networking</i> , <b>2009</b> , 2009,	3.2	2
9	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> , <b>2008</b> , 14, 421-430	3.8	107
8	Spectrum optimization in DVB-H single frequency networks with local service areas <b>2008</b> ,		1
7	UWB propagation channels within an aircraft and an office building environment <b>2008</b> ,		4
6	Scattering Analysis for the Modeling of THz Communication Systems. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2007</b> , 55, 3002-3009	4.9	160
5	. <i>IEEE Antennas and Propagation Magazine</i> , <b>2007</b> , 49, 24-39	1.7	349
4	Appendix B: X-Map Estimation for LTE273-277		
3	Propagation Models for Wireless Network Planning 317-347		2
2	Simulation of GPS localisation based on ray tracing. <i>Advances in Radio Science</i> , 19, 85-92		0
1	Performance analysis of 300 GHz backhaul links using historic weather data. <i>Advances in Radio Science</i> , 19, 153-163		2