

Wolfgang H Gerstaecker

List of Publications by Year in descending order

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40
papers

1,085
citations

567281

15
h-index

395702

33
g-index

41
all docs

41
docs citations

41
times ranked

1220
citing authors

#	ARTICLE	IF	CITATIONS
1	Multiple-antenna techniques for wireless communications - a comprehensive literature survey. IEEE Communications Surveys and Tutorials, 2009, 11, 87-105.	39.4	405
2	Increasing the Capacity of Magnetic Induction Communications in RF-Challenged Environments. IEEE Transactions on Communications, 2013, 61, 3943-3952.	7.8	68
3	Survey on Advances in Magnetic Induction-Based Wireless Underground Sensor Networks. IEEE Internet of Things Journal, 2018, 5, 4843-4856.	8.7	64
4	Throughput of the Magnetic Induction Based Wireless Underground Sensor Networks: Key Optimization Techniques. IEEE Transactions on Communications, 2014, 62, 4426-4439.	7.8	60
5	Effective capacity of communication systems over α - β shadowed fading channels. Electronics Letters, 2015, 51, 1540-1542.	1.0	60
6	Resource Allocation for a Massive MIMO Relay Aided Secure Communication. IEEE Transactions on Information Forensics and Security, 2016, 11, 1700-1711.	6.9	58
7	I/Q Imbalance Aware Widely-Linear Receiver for Uplink Multi-Cell Massive MIMO Systems: Design and Sum Rate Analysis. IEEE Transactions on Wireless Communications, 2016, 15, 3393-3408.	9.2	52
8	Digital Signal Transmission in Magnetic Induction Based Wireless Underground Sensor Networks. IEEE Transactions on Communications, 2015, 63, 2300-2311.	7.8	36
9	Magnetic Induction-Based Simultaneous Wireless Information and Power Transfer for Single Information and Multiple Power Receivers. IEEE Transactions on Communications, 2017, 65, 1396-1410.	7.8	34
10	Time-Domain Transmit Beamforming for MIMO-OFDM Systems with Finite Rate Feedback. IEEE Transactions on Communications, 2009, 57, 2828-2838.	7.8	24
11	Two-Way Filter-and-Forward Beamforming for Frequency-Selective Channels. IEEE Transactions on Wireless Communications, 2011, 10, 4172-4183.	9.2	24
12	Efficient Charging of Access Limited Wireless Underground Sensor Networks. IEEE Transactions on Communications, 2016, 64, 2130-2142.	7.8	23
13	Multi-Cell Massive MIMO Systems With Hardware Impairments: Uplink-Downlink Duality and Downlink Precoding. IEEE Transactions on Wireless Communications, 2017, 16, 5115-5130.	9.2	23
14	Sensing Algorithms and Protocol for Simultaneous Sensing and Reception-Based Cognitive D2D Communications in LTE-A Systems. IEEE Transactions on Cognitive Communications and Networking, 2018, 4, 93-107.	7.9	17
15	Timing Acquisition and Error Analysis for Pulse-Based Terahertz Band Wireless Systems. IEEE Transactions on Vehicular Technology, 2017, 66, 10102-10113.	6.3	15
16	Transmit beamforming for frequency-selective channels with decision-feedback equalization. IEEE Transactions on Wireless Communications, 2007, 6, 4401-4411.	9.2	12
17	Low-Complexity Hybrid Linear/Tomlinson-Harashima Precoding for Downlink Large-Scale MU-MIMO Systems. , 2016, , .		12
18	Transmission and Reception Concepts for WLAN IEEE 802.11b. IEEE Transactions on Wireless Communications, 2006, 5, 3375-3381.	9.2	11

#	ARTICLE	IF	CITATIONS
19	Low Complexity Demapping Algorithms for Multilevel Codes. IEEE Transactions on Communications, 2011, 59, 998-1008.	7.8	11
20	Low-Complexity Widely-Linear Precoding for Downlink Large-Scale MU-MISO Systems. IEEE Communications Letters, 2015, 19, 665-668.	4.1	11
21	Robust MSE-Balancing Hierarchical Linear/Tomlinson-Harashima Precoding for Downlink Massive MU-MIMO Systems. IEEE Transactions on Wireless Communications, 2018, 17, 7309-7324.	9.2	10
22	Intercarrier Interference-Aware Pilot-Aided Channel Estimation in OFDM Systems. IEEE Transactions on Broadcasting, 2017, 63, 449-462.	3.2	9
23	Max-Min Multicell-Aware Precoding and Power Allocation for Downlink Massive MIMO Systems. IEEE Signal Processing Letters, 2017, 24, 1433-1437.	3.6	9
24	Iterative Equalization With Soft Feedback With a Subsequent Stage Employing Error Search and Correction. IEEE Transactions on Vehicular Technology, 2008, 57, 335-344.	6.3	6
25	Receiver Concepts and Resource Allocation for OSC Downlink Transmission. IEEE Transactions on Wireless Communications, 2014, 13, 1568-1581.	9.2	6
26	FIR Beamforming for Frequency-Selective Channels with Linear Equalization. IEEE Communications Letters, 2007, 11, 622-624.	4.1	4
27	Design and analysis of bit interleaved coded space-time modulation. IEEE Transactions on Communications, 2008, 56, 904-914.	7.8	4
28	Robust transmit processing for frequency-selective fading channels with imperfect channel feedback. IEEE Transactions on Wireless Communications, 2008, 7, 5356-5368.	9.2	4
29	Robust Transmit Processing for BICM-OFDM Systems. IEEE Transactions on Wireless Communications, 2009, 8, 5671-5681.	9.2	2
30	Sphere constrained detection of complementary code keying signals transmitted over frequency-selective channels. IEEE Transactions on Wireless Communications, 2009, 8, 4656-4667.	9.2	2
31	Broadband single-carrier transmission techniques. Physical Communication, 2013, 8, 1-4.	2.1	2
32	Efficient Detectors for Telegram Splitting-Based Transmission in Low Power Wide Area Networks With Bursty Interference. IEEE Transactions on Communications, 2020, 68, 7687-7701.	7.8	2
33	Beamforming for Energy Efficient Multiuser MIMO SC-FDMA Transmission with QoS Requirements. IEEE Communications Letters, 2014, 18, 407-410.	4.1	1
34	Guest Editorial Special Issue on "6THz Communications and Networking". IEEE Journal on Selected Areas in Communications, 2021, 39, 1499-1505.	14.0	1
35	Turbo equalization receivers for evolved GSM/EDGE radio access network using QAM modulation. Physical Communication, 2008, 1, 229-235.	2.1	0
36	QoS-oriented solutions for satellite broadcasting systems. Journal of Communications and Networks, 2010, 12, 558-567.	2.6	0

#	ARTICLE	IF	CITATIONS
37	On Robinson's Energy Delay Theorem. Transactions of A Razmadze Mathematical Institute, 2017, 171, 16-23.	0.7	0
38	Constant False Alarm Rate Detection of Multicarrier Signals With Periodic Power Boosting. IEEE Transactions on Cognitive Communications and Networking, 2018, 4, 379-389.	7.9	0
39	Nonlinear Forwarding Strategy for Firefly Ultra Dense Networks With mmWave Fronthaul Links. IEEE Access, 2021, 9, 129672-129691.	4.2	0
40	Optimal Detection of Multiple Symbol-Slotted Random Access-Based Packet Transmissions. IEEE Wireless Communications Letters, 2021, 10, 981-985.	5.0	0