

# Gabor Fodor

## List of Publications by Year in descending order

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135  
papers

4,639  
citations

304602

22  
h-index

143943

57  
g-index

137  
all docs

137  
docs citations

137  
times ranked

3982  
citing authors

#	ARTICLE	IF	CITATIONS
1	Joint Pilot and Data Power Control Optimization in the Uplink of User-Centric Cell-Free Systems. IEEE Communications Letters, 2022, 26, 399-403.	2.5	5
2	MU-MIMO Receiver Design and Performance Analysis in Time-Varying Rayleigh Fading. IEEE Transactions on Communications, 2022, 70, 1214-1228.	4.9	3
3	A Network-Assisted Game-Theoretic Design to Power Control in Autoregressive Fading Channels. IEEE Communications Letters, 2022, 26, 1663-1667.	2.5	1
4	Corrections to "MU-MIMO Receiver Design and Performance Analysis in Time-Varying Rayleigh Fading". IEEE Transactions on Communications, 2022, 70, 2891-2891.	4.9	0
5	EVM-Constrained and Mask-Compliant MIMO-OFDM Spectral Precoding. IEEE Transactions on Wireless Communications, 2021, 20, 590-606.	6.1	4
6	Decentralized Joint Beamforming, User Scheduling, and QoS Management in 5G and Beyond Systems. IEEE Communications Standards Magazine, 2021, 5, 62-69.	3.6	2
7	Energy Efficiency Maximization Under Minimum Rate Constraints in Multi-Cell MIMO Systems With Finite Buffers. IEEE Transactions on Green Communications and Networking, 2021, 5, 174-189.	3.5	5
8	Smart Antenna Assignment is Essential in Full-Duplex Communications. IEEE Transactions on Communications, 2021, 69, 3450-3466.	4.9	7
9	User Coordination for Fast Beam Training in FDD Multi-User Massive MIMO. IEEE Transactions on Wireless Communications, 2021, 20, 2961-2976.	6.1	5
10	Performance Analysis of a Linear MMSE Receiver in Time-Variant Rayleigh Fading Channels. IEEE Transactions on Communications, 2021, 69, 4098-4112.	4.9	7
11	Joint Resource Allocation and Transceiver Design for Sum-Rate Maximization Under Latency Constraints in Multicell MU-MIMO Systems. IEEE Transactions on Communications, 2021, 69, 4569-4584.	4.9	6
12	Cellular Connectivity and Wearable Technology Enablers for Industrial Mid-End Applications. IEEE Communications Magazine, 2021, 59, 61-67.	4.9	5
13	5G New Radio for Automotive, Rail, and Air Transport. IEEE Communications Magazine, 2021, 59, 22-28.	4.9	16
14	Efficient Optimization for Large-Scale MIMO-OFDM Spectral Precoding. IEEE Transactions on Wireless Communications, 2021, 20, 5496-5513.	6.1	6
15	Fast Channel Estimation in the Transformed Spatial Domain for Analog Millimeter Wave Systems. IEEE Transactions on Wireless Communications, 2021, 20, 5926-5941.	6.1	9
16	Low-complexity AoA and AoD Estimation in the Transformed Spatial Domain for Millimeter Wave MIMO Channels. , 2021, , .		1
17	Simultaneous Wireless Information and Power Transfer for Federated Learning. , 2021, , .		7
18	Robust PAPR Reduction in Large-Scale MIMO-OFDM using Three-Operator ADMM-type Techniques. , 2021, , .		2

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19	Hybrid Analog-Digital Beamforming Design for SE and EE Maximization in Massive MIMO Networks. IEEE Transactions on Vehicular Technology, 2020, 69, 377-389.	3.9	21
20	1-bit Phase Shifters for Large-Antenna Full-Duplex mmWave Communications. IEEE Transactions on Wireless Communications, 2020, 19, 6916-6931.	6.1	19
21	User Scheduling Based on Multi-Agent Deep Q-Learning for Robust Beamforming in Multicell MISO Systems. IEEE Communications Letters, 2020, 24, 2809-2813.	2.5	3
22	Decentralized User Scheduling for Rate-Constrained Sum-Utility Maximization in the MIMO IBC. IEEE Transactions on Communications, 2020, 68, 6215-6229.	4.9	3
23	Vehicular Positioning Using 5G Millimeter Wave and Sensor Fusion in Highway Scenarios. , 2020, , .		5
24	A Hybrid Model-Based and Data-Driven Approach to Spectrum Sharing in mmWave Cellular Networks. IEEE Transactions on Cognitive Communications and Networking, 2020, 6, 1269-1282.	4.9	10
25	Supporting Vehicle-to-Everything Services by 5G New Radio Release-16 Systems. IEEE Communications Standards Magazine, 2020, 4, 26-32.	3.6	57
26	A Game Theoretic Approach to Uplink Pilot and Data Power Control in Multi-Cell Multi-User MIMO Systems. IEEE Transactions on Vehicular Technology, 2019, 68, 8707-8720.	3.9	7
27	A Distributed Mode Selection Scheme for Full-Duplex Device-to-Device Communication. IEEE Transactions on Vehicular Technology, 2019, 68, 10267-10271.	3.9	4
28	Supporting Enhanced Vehicle-to-Everything Services by LTE Release 15 Systems. IEEE Communications Standards Magazine, 2019, 3, 26-33.	3.6	22
29	On Unified Vehicular Communications and Radar Sensing in Millimeter-Wave and Low Terahertz Bands. IEEE Wireless Communications, 2019, 26, 146-153.	6.6	66
30	Low Resolution Phase Shifters Suffice for Full-Duplex mmWave Communications. , 2019, , .		3
31	User Scheduling for Sum-Rate Maximization Under Minimum Rate Constraints for the MIMO IBC. IEEE Wireless Communications Letters, 2019, 8, 1591-1595.	3.2	7
32	Bidirectional Sum-Power Minimization Beamforming in Dynamic TDD MIMO Networks. IEEE Transactions on Vehicular Technology, 2019, 68, 9988-10002.	3.9	13
33	Distributed Digital and Hybrid Beamforming Schemes With MMSE-SIC Receivers for the MIMO Interference Channel. IEEE Transactions on Vehicular Technology, 2019, 68, 6790-6804.	3.9	5
34	Multicast and Broadcast Enablers for High-Performing Cellular V2X Systems. IEEE Transactions on Broadcasting, 2019, 65, 454-463.	2.5	41
35	Coordinated Beam Selection for Training Overhead Reduction in FDD Massive MIMO. , 2019, , .		3
36	A Multi-Stream Pricing-Based Precoding and Power Control Algorithm for Dynamic TDD Networks. , 2019, , .		0

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37	Tensor-Based Modeling and Processing for Channel Estimation in Two-Hop V2X MIMO Systems. , 2019, , .		1
38	V2X Connectivity: From LTE to Joint Millimeter Wave Vehicular Communications and Radar Sensing. , 2019, , .		6
39	Kalman-Filter-Based Tracking of Millimeter-Wave Channel Parameters for V2X Applications. , 2019, , .		2
40	Kolmogorov Model for Large Millimeter-Wave Antenna Arrays: Learning-based Beam-Alignment. , 2019, , .		4
41	Low-Complexity OFDM Spectral Precoding. , 2019, , .		4
42	Low-Latency Networking: Where Latency Lurks and How to Tame It. Proceedings of the IEEE, 2019, 107, 280-306.	16.4	89
43	When IoT Keeps People in the Loop: A Path Towards a New Global Utility. IEEE Communications Magazine, 2019, 57, 114-121.	4.9	57
44	MMSE Receiver Design and SINR Calculation in MU-MIMO Systems With Imperfect CSI. IEEE Wireless Communications Letters, 2019, 8, 269-272.	3.2	11
45	Recent Advances in Acquiring Channel State Information in Cellular MIMO Systems. Infocommunications Journal, 2019, 11, 2-12.	0.6	1
46	A Novel Cell Reconfiguration Technique for Dynamic TDD Wireless Networks. IEEE Wireless Communications Letters, 2018, 7, 320-323.	3.2	18
47	Location-Aided Pilot Contamination Avoidance for Massive MIMO Systems. IEEE Transactions on Wireless Communications, 2018, 17, 2662-2674.	6.1	43
48	Pricing-Based Distributed Beamforming for Dynamic Time Division Duplexing Systems. IEEE Transactions on Vehicular Technology, 2018, 67, 3145-3157.	3.9	14
49	Distributed Beamforming in Dynamic TDD MIMO Networks With BS to BS Interference Constraints. IEEE Wireless Communications Letters, 2018, 7, 788-791.	3.2	15
50	Mode selection schemes for unicasting device-to-device communications supported by network coding. International Journal of Communication Systems, 2018, 31, e3594.	1.6	2
51	A Game Theoretic Approach to Setting the Pilot Power Ratio in Multi-User MIMO Systems. IEEE Transactions on Communications, 2018, 66, 999-1012.	4.9	30
52	Delay Analysis of Group Handover for Real-Time Control over Mobile Networks. , 2018, , .		5
53	On Selected V2X Technology Components and Enablers from the 5GCAR Project. , 2018, , .		10
54	Performance Comparison of Practical Resource Allocation Schemes for Device-to-Device Communications. Wireless Communications and Mobile Computing, 2018, 2018, 1-14.	0.8	6

#	ARTICLE	IF	CITATIONS
55	How to Split UL/DL Antennas in Full-Duplex Cellular Networks. , 2018, , .		8
56	On the Energy Efficiency of MIMO Hybrid Beamforming for Millimeter-Wave Systems With Nonlinear Power Amplifiers. IEEE Transactions on Wireless Communications, 2018, 17, 7208-7221.	6.1	65
57	A Unifying Design of Hybrid Beamforming Architectures Employing Phase Shifters or Switches. IEEE Transactions on Vehicular Technology, 2018, 67, 11243-11247.	3.9	16
58	Network coding schemes for D2D communications based relaying for cellular coverage extension. Transactions on Emerging Telecommunications Technologies, 2017, 28, e2994.	2.6	7
59	Effects of Heterogeneous Mobility on D2D- and Drone-Assisted Mission-Critical MTC in 5G. , 2017, 55, 79-87.		124
60	Pilot Precoding and Combining in Multiuser MIMO Networks. IEEE Journal on Selected Areas in Communications, 2017, 35, 1632-1648.	9.7	14
61	An Overview of Massive MIMO Technology Components in METIS. IEEE Communications Magazine, 2017, 55, 155-161.	4.9	20
62	Fast-Lipschitz Power Control and User-Frequency Assignment in Full-Duplex Cellular Networks. IEEE Transactions on Wireless Communications, 2017, 16, 6672-6687.	6.1	13
63	On the spectral efficiency and fairness in full-duplex cellular networks. , 2017, , .		6
64	Pilot precoding and combining in multiuser MIMO networks. , 2017, , .		2
65	An ADMM approach to distributed coordinated beamforming in dynamic TDD networks. , 2017, , .		2
66	The impact of beamforming and coordination on spectrum pooling in mmWave cellular networks. , 2016, , .		3
67	Massive multiple-input multiple-output (MIMO) systems. , 2016, , 208-247.		4
68	Distributed spectral efficiency maximization in full-duplex cellular networks. , 2016, , .		14
69	On the Impact of Antenna Correlation and CSI Errors on the Pilot-to-Data Power Ratio. IEEE Transactions on Communications, 2016, 64, 2622-2633.	4.9	8
70	Spectrum Sharing in mmWave Cellular Networks via Cell Association, Coordination, and Beamforming. IEEE Journal on Selected Areas in Communications, 2016, 34, 2902-2917.	9.7	75
71	Spectral efficient and fair user pairing for full-duplex communication in cellular networks. IEEE Transactions on Wireless Communications, 2016, 15, 7578-7593.	6.1	29
72	Spectrum Pooling in MmWave Networks: Opportunities, Challenges, and Enablers. , 2016, 54, 33-39.		78

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73	Toward trusted, social-aware D2D connectivity: bridging across the technology and sociality realms. IEEE Wireless Communications, 2016, 23, 103-111.	6.6	55
74	An Overview of Device-to-Device Communications Technology Components in METIS. IEEE Access, 2016, 4, 3288-3299.	2.6	54
75	On the impact of antenna correlation on the pilot-data balance in multiple antenna systems. , 2015, , .		3
76	Network coding schemes for Device-to-Device communications based relaying for cellular coverage extension. , 2015, , .		11
77	Benchmarking Practical RRM Algorithms for D2D Communications in LTE Advanced. Wireless Personal Communications, 2015, 82, 883-910.	1.8	24
78	A Binary Power Control Scheme for D2D Communications. IEEE Wireless Communications Letters, 2015, 4, 669-672.	3.2	18
79	Millimeter Wave Cellular Networks: A MAC Layer Perspective. IEEE Transactions on Communications, 2015, 63, 3437-3458.	4.9	364
80	Mitigating Pilot Contamination by Pilot Reuse and Power Control Schemes for Massive MIMO Systems. , 2015, , .		62
81	On Minimizing the MSE in the Presence of Channel State Information Errors. IEEE Communications Letters, 2015, 19, 1604-1607.	2.5	17
82	Location-Aided Pilot Contamination Elimination for Massive MIMO Systems. , 2014, , .		2
83	Performance analysis of network-assisted two-hop D2D communications. , 2014, , .		51
84	Near-optimal practical power control schemes for D2D communications in cellular networks. , 2014, , .		6
85	Device-to-Device Communications for National Security and Public Safety. IEEE Access, 2014, 2, 1510-1520.	2.6	263
86	Clustering Schemes for D2D Communications under Partial/No Network Coverage. , 2014, , .		13
87	Performance Analysis of Block and Comb Type Channel Estimation for Massive MIMO Systems. , 2014, , .		12
88	Network Assisted Device-to-Device Communications: Use Cases, Design Approaches, and Performance Aspects. , 2014, , 135-163.		7
89	LTE release 12 and beyond [Accepted From Open Call]. , 2013, 51, 154-160.		255
90	Radio resource management for network assisted D2D in cellular uplink. , 2013, , .		7

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91	The Ninth Annual MLSP Competition: First place. , 2013, , .		14
92	Evolving Wireless Communications: Addressing the Challenges and Expectations of the Future. IEEE Vehicular Technology Magazine, 2013, 8, 24-30.	2.8	120
93	A comparative study of power control approaches for device-to-device communications. , 2013, , .		70
94	Future Wireless Communications. , 2013, , .		8
95	Performance analysis of power control for device-to-device communication in cellular MIMO systems. , 2012, , .		17
96	A message passing approach for resource allocation in cellular OFDMA communications. , 2012, , .		6
97	Screening for congenital heart diseases by murmurs using telemedical phonocardiography. , 2012, 2012, 6100-3.		3
98	On Opportunistic Power Control for Alamouti and SM MIMO Systems. Wireless Personal Communications, 2012, 67, 335-358.	1.8	0
99	A distributed power control and mode selection algorithm for D2D communications. Eurasip Journal on Wireless Communications and Networking, 2012, 2012, .	1.5	59
100	Design aspects of network assisted device-to-device communications. IEEE Communications Magazine, 2012, 50, 170-177.	4.9	1,119
101	An Optimization Approach to Joint Cell and Power Allocation in Multicell Networks. , 2011, , .		14
102	A Distributed Power Control Scheme for Cellular Network Assisted D2D Communications. , 2011, , .		140
103	Performance analysis of a distributed resource allocation scheme for D2D communications. , 2011, , .		167
104	On pilot dimensioning in multicell single input multiple output systems. , 2011, , .		2
105	Broadband Wireless Access. Eurasip Journal on Wireless Communications and Networking, 2010, 2009, .	1.5	0
106	Near Optimum Power Control and Precoding under Fairness Constraints in Network MIMO Systems. International Journal of Digital Multimedia Broadcasting, 2010, 2010, 1-17.	0.4	9
107	On opportunistic power control for MIMO-OFDM systems. , 2010, , .		3
108	Opportunistic target SINR setting for the MIMO broadcast channel. , 2010, , .		5

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109	On the impact of uplink power control in network MIMO systems with MMSE and SIC receivers. , 2010, , .		1
110	Near Optimum Power Control Under Fairness Constraints in CoMP Systems. , 2009, , .		11
111	On the Impact of Uplink Scheduling on Intercell Interference Variation in MIMO OFDM Systems. , 2009, , .		6
112	Performance analysis of a reuse partitioning technique for multi-channel cellular systems supporting elastic services. International Journal of Communication Systems, 2009, 22, 307-342.	1.6	6
113	On Scheduling and Power Control in Multi-Cell Coordinated Clusters. , 2009, , .		6
114	A mathematical framework for statistical QoS and capacity studies in OFDM networks. , 2009, , .		40
115	Intercell Interference Coordination in OFDMA Networks and in the 3GPP Long Term Evolution System. Journal of Communications, 2009, 4, .	1.3	114
116	On multi-cell admission control in CDMA networks. International Journal of Communication Systems, 2008, 21, 25-50.	1.6	5
117	Performance analysis of scheduling and interference coordination policies for OFDMA networks. Computer Networks, 2008, 52, 1252-1271.	3.2	5
118	On the Impact of Uplink Interference Coordination When Using Multiple Antennas at the Base Station. , 2008, , .		1
119	On the Impact of Inter-Cell Interference in LTE. , 2008, , .		41
120	Bounding the Blocking Probabilities in Multirate CDMA Networks Supporting Elastic Services. IEEE/ACM Transactions on Networking, 2007, 15, 944-956.	2.6	20
121	Performance analysis of resource sharing policies in CDMA networks. International Journal of Communication Systems, 2007, 20, 207-233.	1.6	5
122	Performance Analysis of a Reuse Partitioning Technique for OFDM Based Evolved UTRA. IEEE International Workshop on Quality of Service, 2006, , .	0.0	31
123	Performance Analysis of the Uplink of a CDMA Cell Supporting Elastic Services. Lecture Notes in Computer Science, 2005, , 205-216.	1.0	18
124	On providing blocking probability and throughput guarantees in a multi-service environment. International Journal of Communication Systems, 2002, 15, 257-285.	1.6	15
125	Flow level performance analysis of a multi-service system supporting elastic and adaptive services. Performance Evaluation, 2002, 49, 451-469.	0.9	66
126	A Partially-Blocking Queueing System with CBR/VBR and ABR/UBR Arrival Streams. Telecommunication Systems, 2002, 19, 75-99.	1.6	8



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127	Optimal Link Capacity Dimensioning in Proportionally Fair Networks. Lecture Notes in Computer Science, 2002, , 277-288.	1.0	10
128	Path optimization for elastic traffic under fairness constraints. Teletraffic Science and Engineering, 2001, 4, 667-680.	0.4	8
129	Title is missing!. Telecommunication Systems, 2001, 17, 93-114.	1.6	22
130	Modelling and analysis of routing and resource allocation techniques in multi-service networks. International Journal of Communication Systems, 1999, 12, 103-123.	1.6	3
131	Blocking Probability Approximations and Revenue Optimization in Multirate Loss Networks. Simulation, 1997, 68, 56-63.	1.1	3
132	On efficient max-min fair routing algorithms. , 0, , .		19
133	A middlebox control plane framework for wireless and mobile ip networks. , 0, , .		0
134	Simulative Analysis of Access Selection Algorithms for Multi-Access Networks. , 0, , .		9
135	A Proposed Scalable Environment for Medical Data Processing and Evaluation. , 0, , 603-613.		0