

# Michele A Wigger

## List of Publications by Year in descending order

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69  
papers

1,311  
citations

516561

16  
h-index

414303

32  
g-index

69  
all docs

69  
docs citations

69  
times ranked

842  
citing authors

#	ARTICLE	IF	CITATIONS
1	On the Capacity of Free-Space Optical Intensity Channels. IEEE Transactions on Information Theory, 2009, 55, 4449-4461.	1.5	438
2	The Gaussian MAC with conferencing encoders. , 2008, , .		68
3	Noisy Broadcast Networks With Receiver Caching. IEEE Transactions on Information Theory, 2018, 64, 6996-7016.	1.5	49
4	On the Capacity of the Discrete Memoryless Broadcast Channel With Feedback. IEEE Transactions on Information Theory, 2013, 59, 1329-1345.	1.5	47
5	Extrinsic Jensen-Shannon Divergence: Applications to Variable-Length Coding. IEEE Transactions on Information Theory, 2015, 61, 2148-2164.	1.5	42
6	Benefits of cache assignment on degraded broadcast channels. , 2017, , .		35
7	Joint cache-channel coding over erasure broadcast channels. , 2015, , .		32
8	Capacity Results on Multiple-Input Single-Output Wireless Optical Channels. IEEE Transactions on Information Theory, 2018, 64, 6954-6966.	1.5	31
9	Asymptotic capacity results for MIMO wireless optical communication. , 2017, , .		25
10	Hypothesis Testing Over the Two-Hop Relay Network. IEEE Transactions on Information Theory, 2019, 65, 4411-4433.	1.5	25
11	On Hypothesis Testing Against Conditional Independence With Multiple Decision Centers. IEEE Transactions on Communications, 2018, 66, 2409-2420.	4.9	24
12	Improved Converse and Gap Results for Coded Caching. IEEE Transactions on Information Theory, 2018, 64, 7051-7062.	1.5	24
13	Dirty-Paper Coding for the Gaussian Multiaccess Channel With Conferencing. IEEE Transactions on Information Theory, 2012, 58, 5640-5668.	1.5	23
14	On the Capacity of MIMO Optical Wireless Channels. IEEE Transactions on Information Theory, 2020, 66, 5660-5682.	1.5	23
15	Source Coding Problems With Conditionally Less Noisy Side Information. IEEE Transactions on Information Theory, 2014, 60, 5516-5532.	1.5	21
16	Testing against independence with multiple decision centers. , 2016, , .		21
17	On the AWGN MAC With Imperfect Feedback. IEEE Transactions on Information Theory, 2010, 56, 5432-5476.	1.5	20
18	Coding Schemes With Rate-Limited Feedback That Improve Over the No Feedback Capacity for a Large Class of Broadcast Channels. IEEE Transactions on Information Theory, 2016, 62, 2009-2033.	1.5	19

#	ARTICLE	IF	CITATIONS
19	Linear-Feedback Sum-Capacity for Gaussian Multiple Access Channels. IEEE Transactions on Information Theory, 2012, 58, 224-236.	1.5	18
20	A Rate-Distortion Approach to Caching. IEEE Transactions on Information Theory, 2018, 64, 1957-1976.	1.5	17
21	Coding Schemes and Asymptotic Capacity for the Gaussian Broadcast and Interference Channels With Feedback. IEEE Transactions on Information Theory, 2014, 60, 54-71.	1.5	16
22	Cognitive Wyner Networks With Clustered Decoding. IEEE Transactions on Information Theory, 2014, 60, 6342-6367.	1.5	16
23	On Cognitive Interference Networks. , 2007, , .		15
24	Three-user MIMO MACs with cooperation. , 2009, , .		15
25	Distributed Hypothesis Testing with Concurrent Detections. , 2018, , .		15
26	MIMO MAC-BC Duality With Linear-Feedback Coding Schemes. IEEE Transactions on Information Theory, 2015, 61, 5976-5998.	1.5	14
27	On Achievability for Downlink Cloud Radio Access Networks With Base Station Cooperation. IEEE Transactions on Information Theory, 2018, 64, 5726-5742.	1.5	13
28	Distributed Hypothesis Testing Based on Unequal-Error Protection Codes. IEEE Transactions on Information Theory, 2020, 66, 4150-4182.	1.5	13
29	Optimal reliability over a class of binary-input channels with feedback. , 2012, , .		10
30	Conferecing in Wyner's Asymmetric Interference Network: Effect of Number of Rounds. IEEE Transactions on Information Theory, 2017, 63, 1199-1226.	1.5	10
31	Asymptotic high-SNR capacity of MISO optical intensity channels. , 2017, , .		10
32	Benefits of Cache Assignment on Degraded Broadcast Channels. IEEE Transactions on Information Theory, 2019, 65, 6999-7019.	1.5	10
33	Distributed Hypothesis Testing: Cooperation and Concurrent Detection. IEEE Transactions on Information Theory, 2020, 66, 7550-7564.	1.5	10
34	A Fundamental Storage-Communication Tradeoff for Distributed Computing With Straggling Nodes. IEEE Transactions on Communications, 2020, 68, 7311-7327.	4.9	10
35	Insufficiency of Linear-Feedback Schemes in Gaussian Broadcast Channels With Common Message. IEEE Transactions on Information Theory, 2014, 60, 4553-4566.	1.5	9
36	Exponent Trade-off for Hypothesis Testing Over Noisy Channels. , 2019, , .		9

#	ARTICLE	IF	CITATIONS
37	Linear sum capacity for Gaussian multiple access channel with feedback. , 2010, , .		8
38	An upper bound on the capacity-memory tradeoff of degraded broadcast channels. , 2016, , .		8
39	Distributed Hypothesis Testing With Variable-Length Coding. IEEE Journal on Selected Areas in Information Theory, 2020, 1, 681-694.	1.9	8
40	An Information-Theoretic View of Mixed-Delay Traffic in 5G and 6G. Entropy, 2022, 24, 637.	1.1	7
41	Constrained Source-Coding With Side Information. IEEE Transactions on Information Theory, 2014, 60, 3218-3237.	1.5	6
42	Distributed Hypothesis Testing with Collaborative Detection. , 2018, , .		6
43	Mixed Delay Constraints in Wyner's Soft-Handoff Network. , 2018, , .		6
44	Storage-Computation-Communication Tradeoff in Distributed Computing: Fundamental Limits and Complexity. IEEE Transactions on Information Theory, 2022, 68, 5496-5512.	1.5	6
45	MAC-BC duality with linear-feedback schemes. , 2014, , .		5
46	Mixed Delay Constraints on a Fading C-RAN Uplink. , 2019, , .		5
47	Feedback and Partial Message Side-Information on the Semideterministic Broadcast Channel. IEEE Transactions on Information Theory, 2017, 63, 5052-5073.	1.5	4
48	State-adaptive coded caching for symmetric broadcast channels. , 2017, , .		4
49	On the Capacity of MIMO Optical Wireless Channels. , 2018, , .		4
50	Secrecy Capacity-Memory Tradeoff of Erasure Broadcast Channels. IEEE Transactions on Information Theory, 2019, 65, 5094-5124.	1.5	4
51	On the Capacity of Block Fading Optical Wireless Channels. , 2019, , .		3
52	Multiplexing Gain Region of Sectorized Cellular Networks with Mixed Delay Constraints. , 2019, , .		3
53	Coordinated Multi Point Transmission and Reception for Mixed-Delay Traffic. IEEE Transactions on Communications, 2021, 69, 8116-8131.	4.9	3
54	Cooperative Multi-Sensor Detection under Variable-Length Coding. , 2021, , .		3

#	ARTICLE	IF	CITATIONS
55	Distributed Hypothesis Testing over Noisy Broadcast Channels. <i>Information (Switzerland)</i> , 2021, 12, 268.	1.7	3
56	Optimal Exponents in Cascaded Hypothesis Testing under Expected Rate Constraints. , 2021, , .		3
57	Mixed Delay Constraints at Maximum Sum-Multiplexing Gain. , 2018, , .		2
58	DoF in Sectorized Cellular Systems with BS Cooperation Under a Complexity Constraint. , 2018, , .		2
59	When does Partial Noisy Feedback Enlarge the Capacity of a Gaussian Broadcast Channel?. , 2020, , .		2
60	Benefits of Local Cooperation in Sectorized Cellular Networks Under a Complexity Constraint. <i>IEEE Transactions on Wireless Communications</i> , 2021, 20, 3897-3910.	6.1	2
61	First- and Second-Moment Constrained Gaussian Channels. , 2021, , .		2
62	Slepian-Wolf Coding for Broadcasting With Cooperative Base-Stations. <i>IEEE Transactions on Communications</i> , 2015, 63, 1850-1866.	4.9	1
63	Some Results on the Vector Gaussian Hypothesis Testing Problem. , 2020, , .		1
64	Conditional and Relevant Common Information. <i>Information and Inference</i> , 2022, 11, 679-737.	0.9	1
65	On the Capacity Enlargement of Gaussian Broadcast Channels With Passive Noisy Feedback. <i>IEEE Transactions on Information Theory</i> , 2021, 67, 6356-6367.	1.5	1
66	Cache-Aided Polar Coding: From Theory to Implementation. <i>IEEE Journal on Selected Areas in Information Theory</i> , 2021, 2, 1206-1223.	1.9	1
67	On the sum capacity of the Gaussian multiple access channel with feedback. , 2009, , .		0
68	Decentralized Coded Caching for Wiretap Broadcast Channels. , 2018, , .		0
69	Multi-library Coded Caching with Partial Secrecy. , 2019, , .		0