

Omur Ozel

List of Publications by Year in descending order

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61
papers

2,874
citations

687363

13
h-index

888059

17
g-index

61
all docs

61
docs citations

61
times ranked

1514
citing authors

#	ARTICLE	IF	CITATIONS
1	Transmission with Energy Harvesting Nodes in Fading Wireless Channels: Optimal Policies. IEEE Journal on Selected Areas in Communications, 2011, 29, 1732-1743.	14.0	950
2	Broadcasting with an Energy Harvesting Rechargeable Transmitter. IEEE Transactions on Wireless Communications, 2012, 11, 571-583.	9.2	265
3	Energy Cooperation in Energy Harvesting Communications. IEEE Transactions on Communications, 2013, 61, 4884-4898.	7.8	239
4	Achieving AWGN Capacity Under Stochastic Energy Harvesting. IEEE Transactions on Information Theory, 2012, 58, 6471-6483.	2.4	224
5	Optimal Broadcast Scheduling for an Energy Harvesting Rechargeable Transmitter with a Finite Capacity Battery. IEEE Transactions on Wireless Communications, 2012, 11, 2193-2203.	9.2	187
6	Information-theoretic analysis of an energy harvesting communication system. , 2010, , .		86
7	Optimal Energy Allocation for Energy Harvesting Transmitters With Hybrid Energy Storage and Processing Cost. IEEE Transactions on Signal Processing, 2014, 62, 3232-3245.	5.3	72
8	Energy cooperation in energy harvesting wireless communications. , 2012, , .		66
9	Fundamental limits of energy harvesting communications. , 2015, 53, 126-132.		63
10	AWGN channel under time-varying amplitude constraints with causal information at the transmitter. , 2011, , .		59
11	Binary energy harvesting channel with finite energy storage. , 2013, , .		51
12	Sending Information Through Status Updates. , 2018, , .		50
13	Optimal Energy and Data Routing in Networks With Energy Cooperation. IEEE Transactions on Wireless Communications, 2016, 15, 857-870.	9.2	38
14	Waiting Before Serving: A Companion to Packet Management in Status Update Systems. IEEE Transactions on Information Theory, 2020, 66, 3864-3877.	2.4	35
15	Two-way and multiple-access energy harvesting systems with energy cooperation. , 2012, , .		31
16	Gaussian Wiretap Channel With Amplitude and Variance Constraints. IEEE Transactions on Information Theory, 2015, 61, 5553-5563.	2.4	28
17	The Binary Energy Harvesting Channel With a Unit-Sized Battery. IEEE Transactions on Information Theory, 2017, 63, 4240-4256.	2.4	28
18	Optimizing Information Freshness Through Computationâ€“Transmission Tradeoff and Queue Management in Edge Computing. IEEE/ACM Transactions on Networking, 2021, 29, 949-963.	3.8	27

#	ARTICLE	IF	CITATIONS
19	Energy cooperation in energy harvesting two-way communications. , 2013, , .		25
20	Resource management for fading wireless channels with energy harvesting nodes. , 2011, , .		21
21	A Tutorial on Detecting Security Attacks on Cyber-Physical Systems. , 2019, , .		21
22	Adaptive transmission policies for energy harvesting wireless nodes in fading channels. , 2011, , .		19
23	A Bernoulli-Gaussian physical watermark for detecting integrity attacks in control systems. , 2017, , .		19
24	Trading Off Computation with Transmission in Status Update Systems. , 2019, , .		19
25	Optimal transmission schemes for parallel and fading Gaussian broadcast channels with an energy harvesting rechargeable transmitter. Computer Communications, 2013, 36, 1360-1372.	5.1	18
26	Improved capacity bounds for the binary energy harvesting channel. , 2014, , .		18
27	Broadcasting with a battery limited energy harvesting rechargeable transmitter. , 2011, , .		15
28	Gaussian wiretap channel with an amplitude constraint. , 2012, , .		15
29	Energy Harvesting Transmitters That Heat Up: Throughput Maximization Under Temperature Constraints. IEEE Transactions on Wireless Communications, 2016, 15, 5440-5452.	9.2	14
30	Active detection for exposing intelligent attacks in control systems. , 2017, , .		13
31	Timely Status Updating Through Intermittent Sensing and Transmission. , 2020, , .		13
32	On the capacity region of the Gaussian MAC with batteryless energy harvesting transmitters. , 2012, , .		12
33	Optimal Packet Scheduling in a Broadcast Channel with an Energy Harvesting Transmitter. , 2011, , .		11
34	Wiretap Channels: Implications of the More Capable Condition and Cyclic Shift Symmetry. IEEE Transactions on Information Theory, 2013, 59, 2153-2164.	2.4	11
35	Energy harvesting communications under temperature constraints. , 2016, , .		11
36	Capacity of the energy harvesting channel with energy arrival information at the receiver. , 2014, , .		9

#	ARTICLE	IF	CITATIONS
37	On the Benefits of Waiting in Status Update Systems. , 2019, , .		9
38	Network-wide energy efficiency in wireless networks with multiple access points. Transactions on Emerging Telecommunications Technologies, 2013, 24, 568-581.	3.9	8
39	Physical watermarking for securing cyber physical systems via packet drop injections. , 2017, , .		8
40	Optimal scheduling for energy harvesting transmitters with hybrid energy storage. , 2013, , .		7
41	State amplification and state masking for the binary energy harvesting channel. , 2014, , .		7
42	Active Status Update Packet Drop Control in an Energy Harvesting Node. , 2020, , .		7
43	Gaussian wiretap channel with a batteryless energy harvesting transmitter. , 2012, , .		6
44	The binary energy harvesting channel with on-off fading. , 2015, , .		6
45	Optimal scheduling over fading broadcast channels with an energy harvesting transmitter. , 2011, , .		5
46	Explicit and Implicit Temperature Constraints in Energy Harvesting Communications. , 2017, , .		4
47	On Age and Value of Information in Status Update Systems. , 2020, , .		4
48	Intermittent Status Updating with Random Update Arrivals. , 2021, , .		4
49	Energy state amplification in an energy harvesting communication system. , 2012, , .		3
50	Energy Harvesting Communications Under Explicit and Implicit Temperature Constraints. IEEE Transactions on Wireless Communications, 2018, 17, 6680-6692.	9.2	3
51	Relative Age of Information: A New Metric for Status Update Systems. , 2019, , .		3
52	Energy harvesting communications with hybrid energy storage and processing cost. , 2013, , .		2
53	State estimation in energy harvesting systems. , 2016, , .		2
54	A power control game with smooth reduction of SINR objectives. , 2009, , .		1

#	ARTICLE	IF	CITATIONS
55	Optimal Buffer Partitioning on a Multiuser Wireless Link. IEICE Transactions on Communications, 2011, E94-B, 3399-3411.	0.7	1
56	Wireless information and energy transfer under temperature constraints. , 2017, , .		1
57	Optimal transmission policies over vector Gaussian broadcast channels with energy harvesting transmitters. , 2011, , .		0
58	Optimal energy routing in networks with energy cooperation. , 2014, , .		0
59	Communicating under temperature and energy harvesting constraints. , 2017, , .		0
60	Energy harvesting multiple access channel with peak temperature constraints. , 2018, , .		0
61	Optimizing Robustness against Cascading Failures under Max-Load Targeted Attack. , 2019, , .		0