

# Meng-Lin Ku

## List of Publications by Year in descending order

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82  
papers

1,227  
citations

567281

15  
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395702

33  
g-index

83  
all docs

83  
docs citations

83  
times ranked

1279  
citing authors

#	ARTICLE	IF	CITATIONS
1	Advances in Energy Harvesting Communications: Past, Present, and Future Challenges. IEEE Communications Surveys and Tutorials, 2016, 18, 1384-1412.	39.4	453
2	Data-Driven Stochastic Models and Policies for Energy Harvesting Sensor Communications. IEEE Journal on Selected Areas in Communications, 2015, , 1-1.	14.0	89
3	On Energy Harvesting Gain and Diversity Analysis in Cooperative Communications. IEEE Journal on Selected Areas in Communications, 2015, 33, 2641-2657.	14.0	54
4	Toward Optimal Power Control and Transfer for Energy Harvesting Amplify-and-Forward Relay Networks. IEEE Transactions on Wireless Communications, 2018, 17, 4971-4986.	9.2	37
5	Power Waveforming: Wireless Power Transfer Beyond Time Reversal. IEEE Transactions on Signal Processing, 2016, 64, 5819-5834.	5.3	36
6	A General Approach Toward Green Resource Allocation in Relay-Assisted Multiuser Communication Networks. IEEE Transactions on Wireless Communications, 2018, 17, 848-862.	9.2	32
7	Toward Green Power Allocation in Relay-Assisted Multiuser Networks: A Pricing-Based Approach. IEEE Transactions on Wireless Communications, 2015, 14, 2470-2486.	9.2	31
8	On Outage Probability for Two-Way Relay Networks With Stochastic Energy Harvesting. IEEE Transactions on Communications, 2016, 64, 1901-1915.	7.8	31
9	Toward Optimal Multiuser Antenna Beamforming for Hierarchical Cognitive Radio Systems. IEEE Transactions on Communications, 2012, 60, 2872-2885.	7.8	24
10	Energy-Efficient Precoder Design for Downlink Multi-User MISO Networks With Finite Blocklength Codes. IEEE Transactions on Green Communications and Networking, 2021, 5, 160-173.	5.5	24
11	A Spectrum and Energy Cooperation Strategy in Hierarchical Cognitive Radio Cellular Networks. IEEE Wireless Communications Letters, 2016, 5, 252-255.	5.0	23
12	Joint Beamforming and Resource Allocation for Wireless-Powered Device-to-Device Communications in Cellular Networks. IEEE Transactions on Wireless Communications, 2017, 16, 7290-7304.	9.2	23
13	On Outage Probability for Stochastic Energy Harvesting Communications in Fading Channels. IEEE Signal Processing Letters, 2015, 22, 1893-1897.	3.6	20
14	EM-Based Iterative Receivers for OFDM and BICM/OFDM Systems in Doubly Selective Channels. IEEE Transactions on Wireless Communications, 2011, 10, 1405-1415.	9.2	19
15	A Refined Channel Estimation Method for STBC/OFDM Systems in High-Mobility Wireless Channels. IEEE Transactions on Wireless Communications, 2008, 7, 4312-4320.	9.2	16
16	Mobility-Aware Probabilistic Caching in UAV-Assisted Wireless D2D Networks. , 2019, , .		16
17	A complementary codes pilot-based transmitter diversity technique for OFDM systems. IEEE Transactions on Wireless Communications, 2006, 5, 504-508.	9.2	15
18	Joint Antenna Beamforming, Multiuser Scheduling, and Power Allocation for Hierarchical Cellular Systems. IEEE Journal on Selected Areas in Communications, 2015, 33, 896-909.	14.0	15

#	ARTICLE	IF	CITATIONS
19	Performance Analysis for Two-Way Network-Coded Dual-Relay Networks With Stochastic Energy Harvesting. IEEE Transactions on Wireless Communications, 2017, 16, 5747-5761.	9.2	15
20	Multi-Agent Reinforcement Learning Based 3D Trajectory Design in Aerial-Terrestrial Wireless Caching Networks. IEEE Transactions on Vehicular Technology, 2021, 70, 8201-8215.	6.3	15
21	Joint Power Waveforming and Beamforming for Wireless Power Transfer. IEEE Transactions on Signal Processing, 2017, 65, 6409-6422.	5.3	14
22	BMRHTA: Balanced Multipath Routing and Hybrid Transmission Approach for Lifecycle Maximization in WSNs. IEEE Internet of Things Journal, 2022, 9, 728-742.	8.7	14
23	A Robust Channel Estimator for High-Mobility STBC-OFDM Systems. IEEE Transactions on Circuits and Systems I: Regular Papers, 2010, 57, 925-936.	5.4	12
24	Joint Hybrid Transmission and Adaptive Routing for Lifetime Extension of WSNs. IEEE Access, 2018, 6, 21658-21667.	4.2	12
25	Impact of Imperfect Source-to-Relay CSI in Amplify-and-Forward Relay Networks. IEEE Transactions on Vehicular Technology, 2017, 66, 5056-5069.	6.3	11
26	Transceiver Design and Power Control for Full-Duplex Ultra-Reliable Low-Latency Communication Systems. IEEE Transactions on Wireless Communications, 2022, 21, 1392-1406.	9.2	11
27	Joint Topology Construction and Hybrid Routing Strategy on Load Balancing for Bluetooth Low Energy Networks. IEEE Internet of Things Journal, 2021, 8, 7101-7102.	8.7	11
28	On the achievable sum rate for two-way relay networks with stochastic energy harvesting. , 2014, , .		10
29	Trajectory Design and Link Selection in UAV-Assisted Hybrid Satellite-Terrestrial Network. IEEE Communications Letters, 2022, 26, 1643-1647.	4.1	9
30	Joint QoS-promising and EE-balancing power allocation for two-way relay networks. , 2015, , .		7
31	A derivation on the equivalence between newton's method and DF DFT-based method for channel estimation in OFDM systems. IEEE Transactions on Wireless Communications, 2008, 7, 3982-3987.	9.2	6
32	Higher-order statistics based sequential spectrum sensing for cognitive radio. , 2011, , .		6
33	Joint Power Allocation, Equalization, and Relay Selection for MIMO Relay Networks With Multipath Receptions. IEEE Transactions on Vehicular Technology, 2016, 65, 5160-5174.	6.3	6
34	Self-Calibration of Joint RF Impairments in a Loopback Wideband Transceiver. IEEE Access, 2020, 8, 45607-45617.	4.2	6
35	Optimal Energy-Efficient Power Allocation for Multiuser Relay Networks. , 2014, , .		5
36	Carrier Frequency Offset Estimation Bound for OFDM-Based Single Relay Networks With Multipath Receptions. IEEE Access, 2019, 7, 63900-63912.	4.2	5

#	ARTICLE	IF	CITATIONS
37	Joint Subcarrier Pairing and Power Allocation for Achieving Energy-Efficient Decode-and-Forward Relay Networks. , 2019, , .		5
38	Resource Allocation in Energy-Efficient URLLC Multi-user Multicarrier AF Relay Networks. , 2020, , .		5
39	Neural-Network-Based Power Control Prediction for Solar-Powered Energy Harvesting Communications. IEEE Internet of Things Journal, 2021, 8, 12983-12998.	8.7	5
40	Power control for achieving energy-efficient multiuser two-way balancing relay networks. , 2014, , .		4
41	Joint power control and energy transfer for energy harvesting relay networks. , 2016, , .		4
42	Power Allocation and Relay Selection in Relay Networks: A Perturbation-Based Approach. IEEE Signal Processing Letters, 2017, 24, 1328-1332.	3.6	4
43	Hybrid multi-hop/single-hop opportunistic transmission of WSNs. , 2017, , .		4
44	On Hybrid Energy Utilization in Wireless Sensor Networks. Energies, 2017, 10, 1940.	3.1	4
45	Interference cancellation and link quality enhancement design for multiuser multiple-input multiple-output systems with full-duplex relay. IET Communications, 2018, 12, 340-348.	2.2	4
46	MUSIC-based multiple CFOs estimation methods for CA-OFDM systems. , 2011, , .		3
47	Sequential spectrum sensing based on higher-order statistics for cognitive radios. , 2012, , .		3
48	Multiuser MIMO Precoders With Proactive Primary Interference Cancellation and Link Quality Enhancement for Cognitive Radio Relay Systems. IEEE Access, 2017, 5, 17701-17712.	4.2	3
49	Energy-Efficient Subcarrier Pairing and Power Allocation for DF Relay Networks with an Eavesdropper. Energies, 2017, 10, 1953.	3.1	3
50	A Hybrid Mesh-Ring Topology for Bluetooth Networks. , 2018, , .		3
51	Energy-Efficient Precoder Design for URLLC-Enabled Downlink Multi-User MISO Networks Using Finite Blocklength Codes. , 2020, , .		3
52	Non-Linear Effects of Receiver Amplifier for 60GHz Radio Communication. , 2011, , .		2
53	Service coverage for cognitive radio networks with cooperative relays in shadowed hotspot areas. , 2011, , .		2
54	Joint beamforming, scheduling, and power allocation for hierarchical cellular systems. , 2012, , .		2

#	ARTICLE	IF	CITATIONS
55	An iterative ICI equalization and cancellation scheme for LTE SC-FDMA systems in multipath channels. , 2012, , .		2
56	A two-dimensional MMSE equalizer for MIMO relay networks in multipath fading channels. , 2013, , .		2
57	Joint Subcarrier Pairing and Power Allocation for Two-Way Energy-Efficient Relay Networks. , 2016, , .		2
58	Joint Transmit Beamforming and Power Control for Full-Duplex Cellular Systems. , 2017, , .		2
59	Precoding Design for Multiuser MIMO Downlink Communication Systems Using an LQ-Based Cascade CSIC Algorithm. IEEE Access, 2017, 5, 20578-20589.	4.2	2
60	Novel Precoder Design with Generalized Side-Information Cancellation for Multiuser MIMO Downlink Systems. IEICE Transactions on Communications, 2017, E100.B, 1911-1920.	0.7	2
61	Transmission Policy of Two-Way Relay Networks With Multiple Stochastic Energy Harvesting Nodes. IEEE Access, 2019, 7, 76967-76984.	4.2	2
62	Stochastic Energy Harvesting and Relay Selection for Two-Way Dual-Relay Networks. IEEE Access, 2019, 7, 125323-125332.	4.2	2
63	Cooperative SWIPT Transmission in Overlay Multi-Antennas Hierarchical Cognitive Radio Networks. IEEE Access, 2019, 7, 6032-6046.	4.2	2
64	Transceiver Design for Full-Duplex Ultra-Reliable Low-Latency Communications with Finite Blocklength. , 2020, , .		2
65	On Stochastic Link and Energy Scheduling for Energy Harvesting Bidirectional Communications. IEEE Access, 2020, 8, 20129-20145.	4.2	2
66	Channel equalization and chunk assignment schemes for LTE SC-FDMA systems in multipath channels. , 2012, , .		1
67	Low-Complexity Amplify-and-Forward Mobile Relay Networks without Source-to-Relay CSI. , 2013, , .		1
68	An optimal temporal-and-spatial equalizer for two-hop MIMO relay networks with backward CSIs. , 2013, , .		1
69	Data-driven stochastic scheduling for solar-powered sensor communications. , 2014, , .		1
70	Diversity analysis for two-way multi-relay networks with stochastic energy harvesting. , 2015, , .		1
71	Outage Probability for Two-Way Relay Networks with Stochastic Energy Harvesting Source Nodes. , 2018, , .		1
72	Information and Energy Cooperation in Overlay Hierarchical Cognitive Radio Networks. , 2018, , .		1

#	ARTICLE	IF	CITATIONS
73	Beamforming and Resource Allocation for Charging Power Minimization in Multiuser Wireless-Powered Networks. IEEE Access, 2021, 9, 136231-136242.	4.2	1
74	A Novel Balanced Routing Protocol for Lifetime Improvement in WSNs. , 2022, , .		1
75	Selective maximum ratio transmission techniques for MIMO wireless communications. , 2011, , .		0
76	Joint power allocation and MMSE equalizer designs for MIMO distributed relay networks. , 2012, , .		0
77	Sparse Spectrum Sensing with Sub-Block Partition for Cognitive Radio Systems. , 2014, , .		0
78	Outage probability for two-way solar-powered relay networks with stochastic scheduling. , 2015, , .		0
79	A distributed Dual-Ring Tree algorithm for Bluetooth networks. , 2017, , .		0
80	Stochastic Power Saving for Macrocell-Assisted Small Cell Networks. Journal of Signal Processing Systems, 2020, 92, 1369-1382.	2.1	0
81	A complementary codes pilot-based transmitter diversity technique for OFDM systems. IEEE Transactions on Wireless Communications, 2006, 5, 504-508.	9.2	0
82	DTC-HSR: Distributed Topology Control and Hierarchical Self-Routing for Bluetooth Load Balancing Networks. IEEE Internet of Things Journal, 2022, 9, 19545-19560.	8.7	0