Hung-Yu Wei

List of Publications by Year
in descending order

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144 papers	3,127 citations	361045 20 h-index	223531 46 g-index
145 all docs	145 docs citations	145 times ranked	4400 citing authors

#	Article	IF	Citations
1	Highly conductive PEDOT:PSS electrode by simple film treatment with methanol for ITO-free polymer solar cells. Energy and Environmental Science, 2012, 5, 9662.	15.6	705
2	Enabling Low-Latency Applications in Fog-Radio Access Networks. IEEE Network, 2017, 31, 52-58.	4.9	147
3	Overload control for Machine-Type-Communications in LTE-Advanced system. , 2012, 50, 38-45.		144
4	Dynamic Auction Mechanism for Cloud Resource Allocation. , 2010, , .		119
5	5G Radio Access Network Design with the Fog Paradigm: Confluence of Communications and Computing. , 2017, 55, 46-52.		106
6	IEEE 802.11n MAC Enhancement and Performance Evaluation. Mobile Networks and Applications, 2009, 14, 760-771.	2.2	95
7	On-Demand Resource-Sharing Mechanism Design in Two-Tier OFDMA Femtocell Networks. IEEE Transactions on Vehicular Technology, 2011, 60, 1059-1071.	3.9	88
8	Synthesis and applications of novel low bandgap star-burst molecules containing a triphenylamine core and dialkylated diketopyrrolopyrrole arms for organic photovoltaics. Journal of Materials Chemistry, 2012, 22, 7945.	6.7	86
9	Parking Reservation Auction for Parked Vehicle Assistance in Vehicular Fog Computing. IEEE Transactions on Vehicular Technology, 2019, 68, 3126-3139.	3.9	76
10	A composite catalytic film of PEDOT:PSS/TiNâ€“NPs on a flexible counter-electrode substrate for a dye-sensitized solar cell. Journal of Materials Chemistry, 2011, 21, 19021.	6.7	73
11	Estimation and Adaptation for Bursty LTE Random Access. IEEE Transactions on Vehicular Technology, 2016, 65, 2560-2577.	3.9	73
12	Task offloading and resource allocation in mobile-edge computing system. , 2018, , .		53
13	Network access for M2M/H2H hybrid systems: a game theoretic approach. IEEE Communications Letters, 2014, 18, 845-848.	2.5	51
14	Using a low temperature crystallization process to prepare anatase TiO2 buffer layers for air-stable inverted polymer solar cells. Energy and Environmental Science, 2010, 3, 654.	15.6	49
15	Bio-Inspired Proximity Discovery and Synchronization for D2D Communications. IEEE Communications Letters, 2013, 17, 2300-2303.	2.5	47
16	A counter electrode based on hollow spherical particles of polyaniline for a dye-sensitized solar cell. Journal of Materials Chemistry, 2012, 22, 14727.	6.7	46
17	Enabling Millimeter-Wave 5G Networks for Massive IoT Applications: A Closer Look at the Issues Impacting Millimeter-Waves in Consumer Devices Under the 5G Framework. IEEE Consumer Electronics Magazine, 2019, 8, 49-54.	2.3	41
18	Decomposable Intelligence on Cloud-Edge IoT Framework for Live Video Analytics. IEEE Internet of Things Journal, 2020, 7, 8860-8873.	5.5	36

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19	Wet-milled transition metal oxide nanoparticles as buffer layers for bulk heterojunction solar cells. RSC Advances, 2012, 2, 7487.	1.7	35
20	DeepSleep: IEEE 802.11 enhancement for energy-harvesting machine-to-machine communications. Wireless Networks, 2015, 21, 357-370.	2.0	35
21	On Admission of VoIP Calls Over Wireless Mesh Network. , 2006, , .		32
22	Millimeter-Wave Multi-Hop Wireless Backhauling for 5G Cellular Networks. , 2017, , .		31
23	Energy-Aware Transmission Control for Wireless Sensor Networks Powered by Ambient Energy Harvesting: A Game-Theoretic Approach. , 2011, , .		28
24	Dual-Connectivity Prevenient Handover Scheme in Control/User-Plane Split Networks. IEEE Transactions on Vehicular Technology, 2018, 67, 3545-3560.	3.9	28
25	Organic solar cells featuring nanobowl structures. Energy and Environmental Science, 2013, 6, 1192.	15.6	26
26	Handover mechanism for device-to-device communication. , 2015, , .		25
27	Context-Aware Dynamic Resource Allocation forÂCellular M2M Communications. IEEE Internet of Things Journal, 2016, 3, 318-326.	5.5	24
28	A dual-functional additive improves the performance of molecular bulk heterojunction photovoltaic cells. RSC Advances, 2014, 4, 9401.	1.7	22
29	Inter-client interference cancellation for full-duplex networks. , 2017, , .		20
30	Markov chain performance model for IEEE 802.11 devices with energy harvesting source. , 2012, , .		19
31	Reliable Multicast and Broadcast Mechanisms for Energy-Harvesting Devices. IEEE Transactions on Vehicular Technology, 2014, 63, 1813-1826.	3.9	17
32	Auction-Based Random Access Load Control for Time-Dependent Machine-to-Machine Communications. IEEE Internet of Things Journal, 2016, 3, 658-672.	5.5	17
33	Collaborative Social-Aware and QoE-Driven Video Caching and Adaptation in Edge Network. IEEE Transactions on Multimedia, 2021, 23, 4311-4325.	5.2	17
34	A Distributed Multi-Channel Feedbackless MAC Protocol for D2D Broadcast Communications. IEEE Wireless Communications Letters, 2015, 4, 102-105.	3.2	16
35	A Voting-Based Femtocell Downlink Cell-Breathing Control Mechanism. IEEE/ACM Transactions on Networking, 2016, 24, 85-98.	2.6	16
36	Energy-Efficient Millimeter-Wave M2M 5G Systems with Beam-Aware DRX Mechanism. , 2017, , .		16

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37	To Wait or To Pay: A Game Theoretic Mechanism for Low-Cost M2M and Mission-Critical M2M. IEEE Transactions on Wireless Communications, 2016, 15, 7314-7328.	6.1	15
38	Protocol Design and Game Theoretic Solutions for Device-to-Device Radio Resource Allocation. IEEE Transactions on Vehicular Technology, 2016, , 1-1.	3.9	15
39	Two paradigms in cellular Internetâ€ofâ€things access for energyâ€harvesting machineâ€toâ€machine devices: pushâ€based versus pullâ€based. IET Wireless Sensor Systems, 2016, 6, 121-129.	1.3	15
40	Device-to-Device Communication in LTE-Advanced System: A Strategy-Proof Resource Exchange Framework. IEEE Transactions on Vehicular Technology, 2016, 65, 10022-10036.	3.9	15
41	Incentive Compatible Overlay D2D System: A Group-Based Framework without CQI Feedback. IEEE Transactions on Mobile Computing, 2018, 17, 2069-2086.	3.9	15
42	QoS-Aware Mobile Edge Computing System: Multi-Server Multi-User Scenario. , 2018, , .		15
43	Energy-Efficient Edge Offloading in Heterogeneous Industrial IoT Networks for Factory of Future. IEEE Access, 2020, 8, 183035-183050.	2.6	15
44	Profit Maximization in Femtocell Service with Contract Design. IEEE Transactions on Wireless Communications, 2013, 12, 1978-1988.	6.1	14
45	Incentive Mechanism Design for Selfish Hybrid Wireless Relay Networks. Mobile Networks and Applications, 2005, 10, 929-937.	2.2	13
46	Dual-color electrochromic films incorporating a periodic polymer nanostructure. RSC Advances, 2012, 2, 4746.	1.7	13
47	Centralized Interference-Aware Resource Allocation for Device-to-Device Broadcast Communications. , 2014, , .		13
48	Strategy-Proof Resource Allocation Mechanism for Multi-Flow Wireless Multicast. IEEE Transactions on Wireless Communications, 2015, 14, 3143-3156.	6.1	13
49	Resource Block Allocation with Carrier-Aggregation: A Strategy-Proof Auction Design. IEEE Transactions on Mobile Computing, 2016, 15, 3142-3155.	3.9	13
50	Beam-Aware Dormant and Scheduling Mechanism for 5G Millimeter Wave Cellular Systems. IEEE Transactions on Vehicular Technology, 2018, 67, 10935-10949.	3.9	13
51	Efficient Beam Sweeping Paging in Millimeter Wave 5G Networks. , 2018, , .		13
52	Energy-Efficient and Reliable MEC Offloading for Heterogeneous Industrial IoT Networks. , 2019, , .		13
53	Risk-Aware Cloud-Edge Computing Framework for Delay-Sensitive Industrial IoTs. IEEE Transactions on Network and Service Management, 2021, 18, 2659-2671.	3.2	13
54	Mobile Chord: Enhancing P2P Application Performance over Vehicular Ad Hoc Network. , 2008, , .		12

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55	UE autonomous resource selection for D2D communications: Explicit vs. implicit approaches. , 2016, , .		12
56	Towards NR MBMS: A Flexible Partitioning Method for SFN Areas. IEEE Transactions on Broadcasting, 2020, 66, 416-427.	2.5	12
57	Seamless Handoff Support in Wireless Mesh Networks. , 2006, , .		11
58	Group-Based Sidelink Communication for Seamless Vehicular Handover. IEEE Access, 2019, 7, 56431-56442.	2.6	11
59	Thermal Performance Enhancement With DRX in 5G Millimeter Wave Communication System. IEEE Access, 2021, 9, 34692-34707.	2.6	11
60	Beam-Aware Cross-Layer DRX Design for 5G Millimeter Wave Communication System. IEEE Access, 2020, 8, 77604-77617.	2.6	11
61	Cross-Layer Optimization for VR Video Multicast Systems. , 2018, , .		10
62	Virtual Network Embedding With Dynamic Speed Switching Orchestration in Fog/Edge Network. IEEE Access, 2020, 8, 84753-84768.	2.6	10
63	Distributed V2X Sidelink Communications With Receiver Grant MAC Design. IEEE Transactions on Vehicular Technology, 2022, 71, 5415-5429.	3.9	10
64	Outage reduction with joint scheduling and power allocation in 5G mmWave cellular networks. , 2017, , .		9
65	Dynamic TDD Interference Mitigation by Using Soft Reconfiguration. , 2015, , .		9
66	Machine Learning Models for Predicting Influential Factors of Early Outcomes in Acute Ischemic Stroke: Registry-Based Study. JMIR Medical Informatics, 2022, 10, e32508.	1.3	9
67	Optimal pricing in stochastic scalable video coding multicasting system. , 2013, , .		8
68	Resource allocation in D2D communication - A game theoretic approach. , 2014, , .		8
69	Multi-cell interference coordinated scheduling in mmWave 5G cellular systems. , 2016, , .		8
70	Empowering Device-to-Device Networks with Cross-Link Interference Management. IEEE Transactions on Mobile Computing, 2017, 16, 950-963.	3.9	8
71	Flat-Rate Pricing for Green Edge Computing with Latency Guarantee: A Stackelberg Game Approach. , 2019, , .		8
72	Further Enhanced Multimedia Broadcast/Multicast Service in LTE-Advanced Pro. IEEE Communications Standards Magazine, 2019, 3, 44-51.	3.6	8

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73	Mobility-Aware QoS Promotion and Load Balancing in MEC-Based Vehicular Networks: A Deep Learning Approach. , 2021, , .		8
74	HybridCast: Joint multicast-unicast design for multiuser MIMO networks. , 2015, , .		7
75	Evaluation of LTE access class barring mechanism for IoT. , 2015, , .		7
76	A Dynamic Estimation of the Unsaturated Buffer in the IEEE 802.11 DCF Network: A Particle Filter Framework Approach. IEEE Transactions on Vehicular Technology, 2016, 65, 5397-5409.	3.9	7
77	Accurate Modeling of the DRX Mechanism with Predetermined DRX Cycles Based on the 3GPP LTE Standard. Mobile Networks and Applications, 2016, 21, 259-271.	2.2	7
78	Query-Based Sensors Selection for Collaborative Wireless Sensor Networks With Stochastic Energy Harvesting. IEEE Internet of Things Journal, 2019, 6, 3031-3043.	5.5	7
79	Road Capacity and Throughput for Safe Driving Autonomous Vehicles. IEEE Access, 2020, 8, 95779-95792.	2.6	7
80	Performance evaluation of radio access network overloading from machine type communications in LTE-A networks. , 2012, , .		6
81	A multi-period resource auction scheme for machine-to-machine communications. , 2014, , .		6
82	Incentive Compatible Mode Selection and Spectrum Partitioning in Overlay D2D-Enabled Network. , 2015, , .		6
83	Green Fog Offloading Strategy for Heterogeneous Wireless Edge Networks. , 2018, , .		6
84	Directional Reference Signal Design for 5G Millimeter Wave Cellular Systems. IEEE Transactions on Vehicular Technology, 2018, 67, 10740-10751.	3.9	6
85	A Novel Forwarding Policy under Cloud Radio Access Network with Mobile Edge Computing Architecture. , 2018, , .		6
86	Unlicensed LTE Pricing for Tiered Content Delivery and Heterogeneous User Access. IEEE Transactions on Mobile Computing, 2019, 18, 235-249.	3.9	6
87	Edge Computing and Networking Resource Management for Decomposable Deep Learning: An Auction-Based Approach. , 2021, , .		6
88	Reverse Spectrum Allocation for Spectrum Sharing between TN and NTN. , 2021, , .		6
89	Cross-Layer Adaptive H.264/AVC Streaming over IEEE 802.11e Experimental Testbed. , 2010, , .		5
90	Event-driven energy-harvesting wireless sensor network for structural health monitoring. , 2013, , .		5

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91	LTE-D broadcast with distributed interference-aware D2D resource allocation. , 2015, , .		5
92	Energy-aware waiting-line based resource allocation in cellular network with m2m/h2h co-existence. , 2015, , .		5
93	Fog RAN over General Purpose Processor Platform. , 2016, , .		5
94	Max-throughput interference avoidance mechanism for indoor self-organizing small cell networks. ICT Express, 2017, 3, 132-136.	3.3	5
95	QoE-aware Q-learning based approach to dynamic TDD uplink-downlink reconfiguration in indoor small cell networks. Wireless Networks, 2019, 25, 3467-3479.	2.0	5
96	Flat-Rate Pricing and Truthful Offloading Mechanism in Multi-Layer Edge Computing. IEEE Transactions on Wireless Communications, 2021, 20, 6107-6121.	6.1	5
97	Network Coding Based Data Distribution in WiMAX. , 2009, , .		4
98	Experiment-Based Smartphone Traffic Modeling and Power Saving Performance Analysis for LTE DRX Mechanism. , 2014, , .		4
99	Dynamic Inter-Channel Resource Allocation for Massive M2M Control Signaling Storm Mitigation. , 2016, , .		4
100	Multiplexing-Diversity Medium Access for Multi-User MIMO Networks. IEEE Transactions on Mobile Computing, 2016, 15, 1211-1223.	3.9	4
101	Parked Vehicle Assisted VFC System with Smart Parking: An Auction Approach. , 2018, , .		4
102	LADTRAM: A Coalition Funded Framework for Localized Advertisements Over D2D. IEEE Transactions on Vehicular Technology, 2018, 67, 9801-9815.	3.9	4
103	5G On-Demand SI Acquisition Framework and Performance Evaluation. IEEE Access, 2019, 7, 163245-163261.	2.6	4
104	DCP DRX: An Enhanced Power Saving Mechanism in NR. , 2021, , .		4
105	Nash Bargaining Solution for Cooperative Shared-Spectrum WLAN Networks. , 2007, , .		3
106	Paging and Location Management in IEEE 802.16j Multihop Relay Network. Journal of Computer Systems, Networks, and Communications, 2010, 2010, 1-15.	1.2	3
107	Improving online game performance over IEEE 802.11n networks. , 2010, , .		3
108	DeepSleep: IEEE 802.11 enhancement for energy-harvesting Machine-to-Machine communications. , 2012, , .		3

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109	Performance Evaluation for Energy-Harvesting Machine-Type Communication in LTE-A System. , 2014, , .		3
110	A Soft Fault Detection Mechanism with High Accuracy on Machine-to-Machine Communication Networks. , 2014, , .		3
111	Maxâ€utility resource allocation for indoor small cell networks. IET Communications, 2017, 11, 267-272.	1.5	3
112	SDN - Architectural Enabler for Reliable Communication Over Millimeter-Wave 5G Networks. , 2018, , .		3
113	Reliable Two-Hop Device-To-Device Communications For UAVs. , 2019, , .		3
114	Pair Auction and Matching for Resource Allocation in Full-Duplex Cellular Systems. IEEE Transactions on Vehicular Technology, 2020, 69, 4325-4339.	3.9	3
115	Game-Theoretic Cloud-Edge Resource Allocation for Video Analytics in the Factory of the Future. , 2021, , .		3
116	Age-Optimal Power Allocation in Industrial IoT: A Risk-Sensitive Federated Learning Approach. , 2021, , .		3
117	Reliable Groupcast for NR V2X. IEEE Access, 2021, 9, 152032-152046.	2.6	3
118	Design of 802.16 WIMAX Based Radio Access Network. , 2006, , .		2
119	Access Gateway Discovery and Selection in Hybrid Multihop Relay Vehicular Network. , 2008, , .		2
120	Revenue extraction in overlay macrocell-femtocell system under shared spectrum model. , 2010, , .		2
121	Synchronous multicast and broadcast service in multi-rate IEEE 802.16j WiMAX relay network. Wireless Networks, 2011, 17, 1795-1807.	2.0	2
122	Energy Efficient Networking with IEEE 802.16m Femtocell Low Duty Mode. Mobile Networks and Applications, 2012, 17, 674-684.	2.2	2
123	Smartphone Traffic Engineering for Energy Efficient Communications: Design and Experimental Evaluation. Wireless Personal Communications, 2014, 74, 1179-1196.	1.8	2
124	Dynamic Resource Allocation and Advertisement Revenue Optimization for TV Over eMBMS. IEEE Transactions on Broadcasting, 2016, 62, 579-597.	2.5	2
125	Scheduling and adaptive resource allocation on ICIC with testbed implementation. , 2018, , .		2
126	Deep Q-Network Based Adaptive Resource Allocation with User Grouping on ICIC. , 2019, , .		2

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127	Inter-Client Interference Cancellation for Full-Duplex Networks With Half-Duplex Clients. IEEE/ACM Transactions on Networking, 2019, 27, 2150-2163.	2.6	2
128	Multi-Group Wireless Multicast Broadcast Services Using Adaptive Modulation and Coding: Modeling and Analysis. , 2010, , .		1
129	Incentive Compatible Configuration for Wireless Multicast: A Game Theoretic Approach. IEEE Transactions on Vehicular Technology, 2011, 60, 3520-3525.	3.9	1
130	Modeling and analysis of applying adaptive modulation coding in wireless multicast and broadcast systems. Wireless Networks, 2011, 17, 1373-1386.	2.0	1
131	Design and analysis for reliable broadcast transmission in energy harvesting networks. , 2012, , .		1
132	Investigating the Mediating Role of Affective Commitment in a Computer Supported Collaborative Learning Environment. International Journal of Technology and Educational Marketing, 2014, 4, 62-71.	0.1	1
133	Dynamic Estimation of Unsaturated Buffer in Context-Aware M2M WiFi Network. , 2014, , .		1
134	A Flexible IoT RAN System Based on SDR with Optimal Antenna Distribution. , 2017, , .		1
135	Safe Driving Capacity of Autonomous Vehicles. , 2018, , .		1
136	Medium Access Strategies for Integrated Access and Backhaul at mmWaves Unlicensed Spectrum. , 2021, , .		1
137	Strategy-Proof Beam-Aware Multicast Resource Allocation Mechanism. , 2021, , .		1
138	Machine Learning Based mmWave Orchestration for Edge Gaming QoE Enhancement. , 2021, , .		1
139	5G NR Multicast and Broadcast QoS Enhancement With Flexible Service Continuity Configuration. IEEE Transactions on Broadcasting, 2022, 68, 689-703.	2.5	1
140	A multi-level QoE framework for smartphone video streaming applications. , 2014, , .		0
141	Bridging the Gap Between Academia and Industry: MOST 6G Research Program in Taiwan. , 2021, , .		0
142	5G Edge Computing Experiments with Intelligent Resource Allocation for Multi-Application Video Analytics. , 2021, , .		0
143	Edge Computing Dynamic Resource Management: Tradeoffs Between Security and Application QoE. , 2021, , .		0
144	Storage Allocation for Camera Sensor Networks using Feedback-based Price Discrimination. , 2022, , .		0