Wen-Chi Cheng

List of Publications by Year
in descending order

66 papers	1,843 citations	394421 19 h-index	302126 39 g-index
67 all docs	67 docs citations	67 times ranked	1704 citing authors

#	Article	IF	Citations
1	Traffic Routing-Based Computation Offloading in Cybertwin-Driven Internet of Vehicles for V2X Applications. IEEE Transactions on Vehicular Technology, 2022, 71, 4551-4560.	6.3	6
2	Adaptive Finite Blocklength for Ultra-Low Latency in Wireless Communications. IEEE Transactions on Wireless Communications, 2022, 21, 4450-4463.	9.2	18
3	Joint Power Allocation and Placement Scheme for UAV-Assisted IoT With QoS Guarantee. IEEE Transactions on Vehicular Technology, 2022, 71, 1066-1071.	6.3	16
4	Multi-Frequency Access for Magnetic Induction-Based SWIPT. IEEE Journal on Selected Areas in Communications, 2022, 40, 1679-1691.	14.0	5
5	OAM-SWIPT for IoE-Driven 6G. IEEE Communications Magazine, 2022, 60, 19-25.	6.1	9
6	Modeling and Performance Analysis of OAM-NFC Systems. IEEE Transactions on Communications, 2021, 69, 7986-8001.	7.8	12
7	Mode Hopping for Anti-Jamming in 6G Wireless Communications. Computer Communications and Networks, 2021, , 137-167.	0.8	0
8	Index Modulation Based Joint Mode-Frequency Hopping. IEEE Communications Letters, 2021, 25, 1810-1814.	4.1	7
9	Zadoff-Chu Phase Shift Matrix Based Nonplanar Wireless Communications. , 2021, , .		1
10	Initial Probability Adaptation Enhanced Cross-Entropy-Based Tone Injection Scheme for PAPR Reduction in OFDM Systems. IEEE Transactions on Vehicular Technology, 2021, 70, 6674-6683.	6.3	8
11	Multibeam OAM Transmitarray With Stable Vortex Property Based on Bifocal Method. IEEE Antennas and Wireless Propagation Letters, 2021, 20, 1601-1605.	4.0	15
12	Resource Allocation for 5G-UAV-Based Emergency Wireless Communications. IEEE Journal on Selected Areas in Communications, 2021, 39, 3395-3410.	14.0	50
13	Minimizing the Latency of Embedding Dependence-Aware SFCs into MEC Network via Graph Theory. , 2021, , .		6
14	Antennas/PINs Selection and Joint Beamforming for High Rank LOS MmWave Communications. , 2021, , .		0
15	Precoding-Based Mode Hopping for Anti-Jamming. , 2021, , .		1
16	A Generalized Piecewise Linear Companding Transform for PAPR Reduction in OFDM Systems. IEEE Transactions on Broadcasting, 2020, 66, 170-176.	3.2	18
17	Stacked Denoising Autoencoder Enhanced Polar Codes Over Rayleigh Fading Channels. IEEE Wireless Communications Letters, 2020, 9, 354-357.	5.0	0
18	Simultaneous Transmitting and Air Computing for High-Speed Point-to-Point Wireless Communication. , 2020, , .		0

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19	OAM Transmission in Sparse Multipath Environments with Fading. , 2020, , .		3
20	OAM-NFC: A Short-Range High Capacity Transmission Scheme. , 2020, , .		2
21	Optimal UCA Design for OAM Based Wireless Backhaul Transmission. , 2020, , .		7
22	Reliable Computation Offloading for Edge-Computing-Enabled Software-Defined IoV. IEEE Internet of Things Journal, 2020, 7, 7097-7111.	8.7	194
23	Cooperative Resource Management for Cognitive Satellite-Aerial-Terrestrial Integrated Networks Towards IoT. IEEE Access, 2020, 8, 35759-35769.	4.2	19
24	Vision, Requirements, and Technology Trend of 6G: How to Tackle the Challenges of System Coverage, Capacity, User Data-Rate and Movement Speed. IEEE Wireless Communications, 2020, 27, 218-228.	9.0	388
25	Joint OAM Multiplexing and OFDM in Sparse Multipath Environments. IEEE Transactions on Vehicular Technology, 2020, 69, 3864-3878.	6.3	37
26	Distributed Fog Computing for Latency and Reliability Guaranteed Swarm of Drones. IEEE Access, 2020, 8, 7117-7130.	4.2	54
27	Achieving Maximum Spectrum Efficiency for Full-Duplex MIMO: The Fractal Array-Element Based Self-Interference Mitigation Approach. IEEE Access, 2019, 7, 74056-74069.	4.2	0
28	Sequence Scrambling for Non-Hollow-OAM Based Wireless Communications. , 2019, , .		4
29	A Four-Mode OAM Antenna Array With Equal Divergence Angle. IEEE Antennas and Wireless Propagation Letters, 2019, 18, 1941-1945.	4.0	34
30	Optimal Resource Allocation for Two-User and Single-DF-Relay Network With Ambient Backscatter. IEEE Access, 2019, 7, 91375-91389.	4.2	8
31	Resource Virtualization for Customized Delay- Bounded QoS Provisioning in Uplink VMIMO-SC-FDMA Systems. IEEE Transactions on Communications, 2019, 67, 2951-2967.	7.8	16
32	Study on the wave structure function and spatial coherence radius with a power-law spectrum of oceanic turbulence. Optik, 2019, 187, 172-184.	2.9	5
33	A Partial Learning-Based Detection Scheme for Massive MIMO. IEEE Wireless Communications Letters, 2019, 8, 1137-1140.	5.0	26
34	OAM Based Wireless Communications with Non-Coaxial UCA Transceiver. , 2019, , .		8
35	Mode Hopping with OAM-Based Index Modulation. , 2019, , .		4
36	High Reliable Orbital Angular Momentum Wireless Communications for Space Information Networks. , 2019, , .		1

#	Article	IF	Citations
37	Orbital Angular Momentum for Wireless Communications. IEEE Wireless Communications, 2019, 26, 100-107.	9.0	157
38	A Simple Channel Independent Beamforming Scheme With Parallel Uniform Circular Array. IEEE Communications Letters, 2019, 23, 414-417.	4.1	19
39	Orbital-Angular-Momentum Embedded Massive MIMO: Achieving Multiplicative Spectrum-Efficiency for mmWave Communications. IEEE Access, 2018, 6, 2732-2745.	4.2	77
40	Mode Hopping for Anti-Jamming in Radio Vortex Wireless Communications. IEEE Transactions on Vehicular Technology, 2018, 67, 7018-7032.	6.3	41
41	Orthogonal Frequency and Mode Division Multiplexing for Wireless Communications. , 2018, , .		5
42	Orbital-Angular-Momentum Versus MIMO: Orthogonality, Degree of Freedom, and Capacity. , 2018, , .		15
43	Mode Hopping for Anti-Jamming in Cognitive Radio Networks. , 2018, , .		4
44	Concentric UCAs Based Low-Order OAM for High Capacity in Radio Vortex Wireless Communications. Journal of Communications and Information Networks, 2018, 3, 85-100.	5.2	9
45	A High-Gain Transmitarray for Generating Dual-Mode OAM Beams. IEEE Access, 2018, 6, 61006-61013.	4.2	35
46	Full-Duplex Assisted LTE-U/Wifi Coexisting Networks in Unlicensed Spectrum. IEEE Access, 2018, 6, 40085-40095.	4.2	7
47	Fractal uniform circular arrays based multi-orbital-angular-momentum-mode multiplexing vortex radio MIMO. China Communications, 2018, 15, 118-135.	3.2	5
48	Mode Modulation for Wireless Communications With a Twist. IEEE Transactions on Vehicular Technology, 2018, 67, 10704-10714.	6.3	30
49	Heterogeneous Statistical QoS Provisioning Over Airborne Mobile Wireless Networks. IEEE Journal on Selected Areas in Communications, 2018, 36, 2139-2152.	14.0	43
50	Heterogeneous Statistical QoS Provisioning Over Wireless Powered Sensor Networks. IEEE Access, 2017, 5, 7910-7921.	4.2	19
51	Mode Modulation for Orbital-Angular-Momentum Based Wireless Vorticose Communications. , 2017, , .		8
52	Optimal Resource Allocation with Heterogeneous QoS Provisioning for Wireless Powered Sensor Networks. , 2017, , .		3
53	Energy Efficiency Optimization with Statistical QoS Provisioning for Energy Harvesting Networks. , 2017, , .		6
54	Statistical-QoS Guaranteed Energy Efficiency Optimization for Energy Harvesting Wireless Sensor Networks. Sensors, 2017, 17, 1933.	3.8	6

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55	Orbital-angular-momentum based mode-hopping: A novel anti-jamming technique. , 2017, , .		5
56	High-efficient beam-converging for UCA based radio vortex wireless communications. , 2017, , .		13
57	Concentric UCAs based low-order radio vortex wireless communications with co-mode interference. , 2017, , .		10
58	Decentralized Heterogeneous Statistical QoS Provisioning for Uplinks over 5G Wireless Networks. , 2016, , .		4
59	Optimal Power Allocation With Statistical QoS Provisioning for D2D and Cellular Communications Over Underlaying Wireless Networks. IEEE Journal on Selected Areas in Communications, 2016, 34, 151-162.	14.0	66
60	Full-duplex transmission in phy and mac layers for 5G mobile wireless networks. IEEE Wireless Communications, 2015, 22, 112-121.	9.0	60
61	Heterogeneous statistical QoS provisioning over 5G wireless full-duplex networks. , 2015, , .		23
62	Heterogeneous statistical QoS provisioning for downlink transmissions over mobile wireless cellular networks. , 2014, , .		31
63	Heterogeneous statistical QoS provisioning over 5G mobile wireless networks. IEEE Network, 2014, 28, 46-53.	6.9	94
64	QoS-Aware Power Allocations for Maximizing Effective Capacity Over Virtual-MIMO Wireless Networks. IEEE Journal on Selected Areas in Communications, 2013, 31, 2043-2057.	14.0	32
65	Joint Spectrum and Power Efficiencies Optimization for Statistical QoS Provisionings Over SISO/MIMO Wireless Networks. IEEE Journal on Selected Areas in Communications, 2013, 31, 903-915.	14.0	33
66	Approximating maximum likelihood performance reduced dimension VBLAST detection algorithm. Science China Information Sciences, 2010, 53, 1439-1445.	4.3	1