Kwan-Wu Chin

List of Publications by Year
in descending order

170 papers	2,257 citations	394421 19 h-index	265206 42 g-index
173 all docs	173 docs citations	173 times ranked	1997 citing authors

#	Article	IF	Citations
1	A Survey and Tutorial of RFID Anti-Collision Protocols. IEEE Communications Surveys and Tutorials, 2010, 12, 400-421.	39.4	323
2	An Energy-Efficient Mobile-Sink Path Selection Strategy for Wireless Sensor Networks. IEEE Transactions on Vehicular Technology, 2014, 63, 2407-2419.	6.3	262
3	Implementation experience with MANET routing protocols. Computer Communication Review, 2002, 32, 49-59.	1.8	140
4	Ultra-Reliable IoT Communications with UAVs: A Swarm Use Case. IEEE Communications Magazine, 2018, 56, 90-96.	6.1	133
5	A Survey and Study of Planar Antennas for Pico-Satellites. IEEE Access, 2015, 3, 2590-2612.	4.2	91
6	A comparison of deterministic and probabilistic methods for indoor localization. Journal of Systems and Software, 2011, 84, 442-451.	4.5	76
7	On Nodes Placement in Energy Harvesting Wireless Sensor Networks for Coverage And Connectivity. IEEE Transactions on Industrial Informatics, 2017, 13, 27-36.	11.3	74
8	Novel Algorithms for Complete Targets Coverage in Energy Harvesting Wireless Sensor Networks. IEEE Communications Letters, 2014, 18, 118-121.	4.1	71
9	GreCo: An Energy Aware Controller Association Algorithm for Software Defined Networks. IEEE Communications Letters, 2015, 19, 541-544.	4.1	60
10	Coordination in wireless sensor–actuator networks: A survey. Journal of Parallel and Distributed Computing, 2012, 72, 856-867.	4.1	58
11	On the energy consumption of Pure and Slotted Aloha based RFID anti-collision protocols. Computer Communications, 2009, 32, 961-973.	5.1	48
12	On the Suitability of Framed Slotted Aloha based RFID Anti-collision Protocols for Use in RFID-Enhanced WSNs. , 2007, , .		30
13	Nodes Deployment for Coverage in Rechargeable Wireless Sensor Networks. IEEE Transactions on Vehicular Technology, 2019, 68, 6064-6073.	6.3	30
14	Efficient heuristics for energy-aware routing in networks with bundled links. Computer Networks, 2013, 57, 1774-1788.	5.1	26
15	A novel distributed algorithm for complete targets coverage in energy harvesting wireless sensor networks. , 2014, , .		25
16	On Max–Min Throughput in Backscatter-Assisted Wirelessly Powered IoT. IEEE Internet of Things Journal, 2020, 7, 137-147.	8.7	25
17	TrainNet: A transport system for delivering non real-time data. Computer Communications, 2010, 33, 1850-1863.	5.1	22
18	A high gain S-band slot antenna with MSS for CubeSat. Annales Des Telecommunications/Annals of Telecommunications, 2019, 74, 223-237.	2.5	22

#	ARTICLE	IF	CITATIONS
19	S-band shorted patch antenna for inter pico satellite communications. , 2014, , .		21
20	On Complete Target Coverage in Wireless Sensor Networks With Random Recharging Rates. IEEE Wireless Communications Letters, 2015, 4, 50-53.	5.0	21
21	On the Accuracy of RFID Tag Estimation Functions. , 2007, , .		20
22	On Wireless Power Transfer and Max Flow in Rechargeable Wireless Sensor Networks. IEEE Access, 2016, 4, 4155-4167.	4.2	20
23	A Unified Study of Epidemic Routing Protocols and their Enhancements. , 2012, , .		19
24	Novel scheduling algorithms for concurrent transmit/receive wireless mesh networks. Computer Networks, 2012, 56, 1200-1214.	5.1	19
25	Approximation algorithms for broadcasting in duty cycled wireless sensor networks. Wireless Networks, 2014, 20, 2219-2236.	3.0	19
26	S - band Planar Antennas for a CubeSat. International Journal on Electrical Engineering and Informatics, 2015, 7, 559-568.	0.5	18
27	An Investigation into thie Energy Eficiency of Pure and Slotted Aloha Based REID Anti-Collision Protocols. , 2007, , .		17
28	A Novel Mobility-Based Routing Protocol for Semi-Predictable Disruption Tolerant Networks. International Journal of Wireless Information Networks, 2015, 22, 138-146.	2.7	17
29	Robust Targets Coverage for Energy Harvesting Wireless Sensor Networks. IEEE Transactions on Vehicular Technology, 2019, 68, 5884-5892.	6.3	16
30	Energy Aware Two Disjoint Paths Routing. Journal of Network and Computer Applications, 2014, 43, 27-41.	9.1	15
31	Energy-aware traffic engineering with reliability constraint. Computer Communications, 2015, 57, 115-128.	5.1	15
32	Complete Targets Coverage in Wireless Sensor Networks With Energy Transfer. IEEE Communications Letters, 2018, 22, 396-399.	4.1	13
33	A novel destination-based routing protocol (DBRP) in DTNs. , 2012, , .		12
34	Joint Routing and Links Scheduling in Two-Tier Multi-Hop RF-Energy Harvesting Networks. IEEE Communications Letters, 2016, 20, 1864-1867.	4.1	12
35	A New Link Scheduling Algorithm for Concurrent Tx/Rx Wireless Mesh Networks. , 2008, , .		11
36	On complete targets coverage and connectivity in energy harvesting wireless sensor networks. , 2015, , .		11

#	Article	IF	Citations
37	A low profile high gain CPW-fed slot antenna with a cavity backed reflector for CubeSats. , 2017, , .		11
38	A Novel Anti-Collision Protocol for Energy Efficient Identification and Monitoring in RFID-Enhanced WSNs. , 2008, , .		10
39	A Simulation Study of TCP over the IEEE 802.15.3 MAC. , 2005, , .		9
40	SpotMAC: A Pencil-Beam MAC for Wireless Mesh Networks. , 2007, , .		9
41	E2MAC : An energy efficient MAC for RFID-enhanced wireless sensor networks. Pervasive and Mobile Computing, 2011, 7, 241-255.	3.3	9
42	Power-aware routing in networks with delay and link utilization constraints. , 2012, , .		9
43	Minimizing broadcast latency and redundancy in asynchronous wireless sensor networks. Wireless Networks, 2014, 20, 345-360.	3.0	9
44	On Maximizing Min Flow Rates in Rechargeable Wireless Sensor Networks. IEEE Transactions on Industrial Informatics, 2018, 14, 2962-2972.	11.3	9
45	On Sampling Time Maximization in Wireless Powered Internet of Things. IEEE Transactions on Green Communications and Networking, 2019, 3, 641-650.	5.5	9
46	Learning to Bond in Dense WLANs With Random Traffic Demands. IEEE Transactions on Vehicular Technology, 2020, 69, 11868-11879.	6.3	9
47	Routing in Energy Harvesting Wireless Sensor Networks With Dual Alternative Batteries. IEEE Systems Journal, 2021, 15, 3970-3979.	4.6	9
48	The Behavior of MANET Routing Protocols in Realistic Environments. , 0, , .		8
49	Pairwise: a time hopping medium access control protocol for wireless sensor networks. IEEE Transactions on Consumer Electronics, 2009, 55, 1898-1906.	3.6	8
50	A wideband F-shaped patch antenna for S-band CubeSats communications. , 2016, , .		8
51	A Novel Distributed Pseudo-TDMA Channel Access Protocol for Multi-Transmit-Receive Wireless Mesh Networks. IEEE Transactions on Vehicular Technology, 2018, 67, 2531-2542.	6.3	8
52	On Optimizing Max Min Rate in Rechargeable Wireless Sensor Networks with Energy Sharing. IEEE Transactions on Sustainable Computing, 2020, 5, 107-120.	3.1	8
53	On Maximizing Max–Min Source Rate in Wireless-Powered Internet of Things. IEEE Internet of Things Journal, 2020, 7, 11276-11289.	8.7	8
54	Complete Target Coverage in Radio Frequency and Solar-Powered Sensor Networks. IEEE Systems Journal, 2021, 15, 3609-3619.	4.6	8

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55	A Novel Spatial TDMA Scheduler for Concurrent Transmit/Receive Wireless Mesh Networks. , 2010, , .		7
56	A Novel Scheduler for Concurrent Tx/Rx Wireless Mesh Networks with Weighted Links. IEEE Communications Letters, 2012, 16, 246-248.	4.1	7
57	Approximation algorithm for data broadcasting in duty cycled multi-hop wireless networks. Eurasip Journal on Wireless Communications and Networking, 2013, 2013, .	2.4	7
58	A survey of single and multi-hop link schedulers for mmWave wireless systems. Ad Hoc Networks, 2015, 33, 269-283.	5.5	7
59	On Complete Targets Coverage in RF-Harvesting Internet of Things Networks. IEEE Communications Letters, 2019, 23, 922-925.	4.1	7
60	On improving capacity and delay in multi Tx/Rx Wireless Mesh Networks with weighted links. , 2013, , .		6
61	HotPLUZ: A BGP-aware green traffic engineering approach. , 2014, , .		6
62	On Maximizing Sampling Time of RF-Harvesting Sensor Nodes over Random Channel Gains. , 2018, , .		6
63	Link Scheduling in Rechargeable Wireless Sensor Networks With Imperfect Batteries. IEEE Access, 2019, 7, 104721-104736.	4.2	6
64	A Two-Layer Channel Access Approach for RF-Energy Harvesting Networks. IEEE Access, 2019, 7, 171814-171829.	4.2	6
65	Charge-and-Activate Policies for Targets Monitoring in RF-Harvesting Sensor Networks. IEEE Transactions on Vehicular Technology, 2020, 69, 7835-7846.	6.3	6
66	Random Channel Access Protocols for SIC Enabled Energy Harvesting IoTs Networks. IEEE Systems Journal, 2021, 15, 2269-2280.	4.6	6
67	A Novel Distributed Resource Allocation Scheme for Wireless-Powered Cognitive Radio Internet of Things Networks. IEEE Internet of Things Journal, 2021, 8, 15486-15499.	8.7	6
68	AMTree: An Active Approach to Multicasting in Mobile Networks. Mobile Networks and Applications, 2001, 6, 361-376.	3.3	5
69	Delay aware joint routing and scheduling for multi-Tx-Rx Wireless Mesh Networks. , 2014, , .		5
70	Power‑aware routing in networks with quality of services constraints. Transactions on Emerging Telecommunications Technologies, 2016, 27, 122-135.	3.9	5
71	A Novel Distributed Max-Weight Link Scheduler for Multi-Transmit/Receive Wireless Mesh Networks. IEEE Transactions on Vehicular Technology, 2016, 65, 9345-9357.	6.3	5
72	Learning to Charge RF-Energy Harvesting Devices in WiFi Networks. IEEE Systems Journal, 2021, 15, 5516-5525.	4.6	5

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73	A Reinforcement Learning Approach to Optimize Energy Usage in RF-Charging Sensor Networks. IEEE Transactions on Green Communications and Networking, 2021, 5, 526-539.	5.5	5
74	Novel Tasks Assignment Methods for Wireless-Powered IoT Networks. IEEE Internet of Things Journal, 2022, 9, 10563-10575.	8.7	5
75	A novel IEEE 802.15.3 CTA sharing protocol for supporting VBR streams. , 0, , .		4
76	ArDeZ: a low power asymmetric rendezvous MAC for sensor networks. , 0, , .		4
77	A Distributed Maximal Link Scheduler for Multi Tx/Rx Wireless Mesh Networks. IEEE Transactions on Wireless Communications, 2015, 14, 520-531.	9.2	4
78	A novel framework to mitigate the negative impacts of green techniques on BGP. Journal of Network and Computer Applications, 2015, 48, 22-34.	9.1	4
79	A Novel Flow-Aware Fair Scheduler for Multi Transmit/Receive Wireless Networks. IEEE Access, 2017, 5, 10456-10468.	4.2	4
80	On Maximizing Min Source Rate in Power Beacon Assisted IoTs Networks. IEEE Transactions on Vehicular Technology, 2020, 69, 11880-11892.	6.3	4
81	Data Collection in Radio Frequency (RF) Charging Internet of Things Networks. IEEE Communications Letters, 2021, 25, 1959-1963.	4.1	4
82	An Energy Efficient Channel Bonding and Transmit Power Control Approach for WiFi Networks. IEEE Transactions on Vehicular Technology, 2021, 70, 8251-8263.	6.3	4
83	Joint Link Scheduling and Routing in Two-Tier RF-Energy-Harvesting IoT Networks. IEEE Internet of Things Journal, 2022, 9, 800-812.	8.7	4
84	Optimizing Information Freshness in RF-Powered Multi-Hop Wireless Networks. IEEE Transactions on Wireless Communications, 2022, 21, 7135-7147.	9.2	4
85	Closed-form and generalized inverse kinematics solutions for the analysis of human motion. , 0, , .		3
86	A model for enhancing connection rerouting using active networks. , 1999, , .		3
87	MiniMesh. Mobile Computing and Communications Review, 2007, 11, 57-71.	1.7	3
88	A green scheduler for enterprise WLANs. , 2011, , .		3
89	Novel association control strategies for multicasting in relay-enabled WLANs. Computer Networks, 2012, 56, 2168-2178.	5.1	3
90	On the Performance of Epidemic Based Routing Protocols for Delivering Multicast Bundles in Delay Tolerant Networks. International Journal of Wireless Information Networks, 2014, 21, 133-153.	2.7	3

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91	On using Wireless Power Transfer to increase the max flow of Rechargeable Wireless Sensor Networks. , 2015, , .		3
92	Dipole antenna array cluster for CubeSats. , 2016, , .		3
93	On Minimizing Data Forwarding Schedule in Multi Transmit/Receive Wireless Mesh Networks. IEEE Access, 2016, 4, 1570-1582.	4.2	3
94	Joint routing and scheduling in multi-Tx/Rx wireless mesh networks with random demands. Computer Networks, 2016, 98, 44-56.	5.1	3
95	Link Scheduling in Rechargeable Wireless Sensor Networks with Harvesting Time and Battery Capacity Constraints. , 2018, , .		3
96	On Supporting Legacy and RF Energy Harvesting Devices in Two-Tier OFDMA Heterogeneous Networks. IEEE Access, 2018, 6, 62538-62551.	4.2	3
97	Link Scheduling in Wireless Networks With RF Energy Harvesting Nodes. IEEE Transactions on Green Communications and Networking, 2019, 3, 302-316.	5.5	3
98	Uplinks Schedulers for RF-Energy Harvesting Networks With Imperfect CSI. IEEE Transactions on Vehicular Technology, 2020, 69, 4233-4245.	6.3	3
99	Multi-Path Routing in Green Multi-Stage Upgrade for Bundled-Links SDN/OSPF-ECMP Networks. IEEE Access, 2021, 9, 99073-99091.	4.2	3
100	A Novel Hybrid Access Point Channel Access Method for Wireless-Powered IoT Networks. IEEE Internet of Things Journal, 2021, 8, 12329-12338.	8.7	3
101	Green Multi-Stage Upgrade for Bundled-Link SDNs With Budget and Delay Constraints. IEEE Transactions on Green Communications and Networking, 2021, 5, 1410-1425.	5.5	3
102	Energy-Aware Irregular Slotted Aloha Methods for Wireless-Powered IoT Networks. IEEE Internet of Things Journal, 2022, 9, 11784-11795.	8.7	3
103	Maximizing Virtual Network Embedding Requests in RF-Charging IoT Networks. IEEE Communications Letters, 2022, 26, 863-867.	4.1	3
104	A Model for Enhancing Connection Rerouting in Mobile Networks. Wireless Networks, 2001, 7, 249-267.	3.0	2
105	Routing in MANETs with address conflicts. , 2005, , .		2
106	A new technique for reducing MAC address overheads in sensor networks. IEEE Communications Letters, 2006, 10, 338-340.	4.1	2
107	On the characteristics of BGP multiple origin AS conflicts. , 2007, , .		2
108	A Simulation Study on the Energy Efficiency of Pure and Slotted Aloha Based RFID Tag Reading Protocols. , 2009, , .		2

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109	On Maximizing VoIP Capacity and Energy Conservation in Multi-Rate WLANs. IEEE Communications Letters, 2010, 14, 611-613.	4.1	2
110	On the effects of energy-aware traffic engineering on routing reliability. , 2013, , .		2
111	Energy-Aware Two Link-Disjoint Paths Routing. , 2013, , .		2
112	Reliable green routing using two disjoint paths. , 2014, , .		2
113	A novel link scheduler for personalized broadcast in multi Tx/Rx Wireless Mesh Networks. , 2015, , .		2
114	Novel joint routing and scheduling algorithms for minimizing end-to-end delays in multi Tx-Rx wireless mesh networks. Computer Communications, 2015, 72, 63-77.	5.1	2
115	Superframe Construction for Wireless Networks With Stochastic Demands. IEEE Communications Letters, 2015, 19, 1694-1697.	4.1	2
116	On energy and data delivery in wireless local area networks with RF charging nodes. , 2017, , .		2
117	On Emptying Small Satellite Networks with In-Network Data Aggregation. , 2018, , .		2
118	Green Multi-Stage Upgrade for Bundled-Link SDNs with Budget Constraint. , 2019, , .		2
119	A Distributed Link Scheduler for In-Band Full Duplex Wireless Networks. IEEE Transactions on Vehicular Technology, 2020, 69, 5255-5267.	6.3	2
120	A Novel Degree of Freedom (DoF) Link Scheduler for Full-Duplex Wireless Local Area Networks. IEEE Networking Letters, 2020, 2, 58-61.	1.9	2
121	Link Scheduling in Rechargeable Wireless Sensor Networks With Imperfect Battery and Memory Effects. IEEE Access, 2021, 9, 17803-17819.	4.2	2
122	Green Multi-Stage Upgrade for Bundled-Links SDN/OSPF-ECMP Networks. , 2021, , .		2
123	Link Scheduling in Rechargeable Wireless Sensor Networks with a Dual-Battery System. , 2021, , .		2
124	Maximizing Sampling Data Upload in Ambient Backscatter-Assisted Wireless-Powered Networks. IEEE Internet of Things Journal, 2021, 8, 12266-12278.	8.7	2
125	Link Schedulers for Green Wireless Networks With Energy Sharing. IEEE Transactions on Green Communications and Networking, 2021, 5, 1580-1593.	5.5	2
126	On Max-Min Complete Targets Sampling in Backscatter-Aided RF Powered IoT Networks. IEEE Communications Letters, 2021, 25, 3644-3648.	4.1	2

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127	Data Collection in Multihop Mobile Sink-Aided Backscatter IoT Networks. IEEE Internet of Things Journal, 2022, 9, 12001-12013.	8.7	2
128	A Deep Q-Network Approach to Optimize Spatial Reuse in WiFi Networks. IEEE Transactions on Vehicular Technology, 2022, 71, 6636-6646.	6.3	2
129	AMTree: an active approach to multicasting in mobile networks. , 0, , .		1
130	T2-fair. , 2006, , .		1
131	Viability of concurrent transmission and reception for UWB radios over multipath channels. , 2007, , .		1
132	TCP Over the IEEE 802.15.3 MAC: Analysis and Simulation. International Journal of Wireless Information Networks, 2010, 17, 73-88.	2.7	1
133	A Novel Association Control Strategy for Supporting Multiple Multicast Sessions in WLANs. IEEE Communications Letters, 2012, 16, 1933-1936.	4.1	1
134	A novel queue length aware distributed link scheduler for multi-transmit receive Wireless Mesh Networks. , 2014, , .		1
135	A distributed maximal link scheduler for multi Tx/Rx Wireless Mesh Networks. , 2014, , .		1
136	A Novel Data Centric Information Retrieval Protocol for Queries in Delay Tolerant Networks. Journal of Network and Systems Management, 2015, 23, 870-901.	4.9	1
137	Scheduling links with air-time in multi transmit/receive wireless mesh networks. Wireless Networks, 2016, 22, 1999-2012.	3.0	1
138	Link Scheduling for Data Collection in SIC-Capable UAV Networks. , 2019, , .		1
139	An Orientation Aware Learning MAC for Multi-UAVs Networks. , 2019, , .		1
140	Downlink Throughput Maximization in Multi-UAVs Networks Using Discrete Optimization. Journal of Network and Systems Management, 2020, 28, 247-270.	4.9	1
141	A hybrid MAC for non-orthogonal multiple access Unmanned Aerial Vehicles networks. Wireless Networks, 2020, 26, 3749-3761.	3.0	1
142	On Devices Selection in RF-Energy Harvesting Wireless Networks. IEEE Systems Journal, 2021, , 1-11.	4.6	1
143	Link Scheduling for Data Collection in Multihop Backscatter IoT Wireless Networks. IEEE Internet of Things Journal, 2022, 9, 2215-2226.	8.7	1
144	Joint Trajectory and Link Scheduling Optimization in UAV Networks. IEEE Access, 2021, 9, 84756-84772.	4.2	1

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145	Complete Targets Coverage in Energy-Harvesting IoT Networks With Dual Imperfect Batteries. IEEE Internet of Things Journal, 2022, 9, 6199-6212.	8.7	1
146	MCoRe: an adaptive scheme for rerouting multicast connections in mobile ATM networks. Computer Communications, 2002, 25, 56-73.	5.1	0
147	A distributed time-fair scheduling algorithm for multi-rate WLANs. , 2007, , .		0
148	On the characteristics of BGP routes. , 2007, , .		0
149	On the Impact of Wi-Fi Multmedia Power Save Mode on the VoIP Capacity of WLANs. , 2010, , .		0
150	Novel association strategies for supporting multicast in WLANs with smart antennas. , 2012, , .		0
151	Approximation algorithms for Interference Aware Broadcast in wireless networks. , 2013, , .		0
152	Algorithms for bounding end-to-end delays in Wireless Sensor Networks. Wireless Networks, 2014, 20, 2131-2146.	3.0	0
153	Bi-objective network topology design with reliability constraint. , 2015, , .		0
154	On the performance of online and offline green path establishment techniques. Eurasip Journal on Wireless Communications and Networking, 2015, 2015, .	2.4	0
155	An efficient link scheduler for MIMO wireless mesh networks. , 2015, , .		0
156	Green-PolyH: A green traffic engineering solution over uncertain demands. , 2015, , .		0
157	A novel link scheduler for multi Tx/Rx Wireless Mesh Networks. , 2015, , .		0
158	A distributed broadcast algorithm for duty-cycled networks with physical interference model. Eurasip Journal on Wireless Communications and Networking, 2015, 2015, .	2.4	0
159	On Uplink and Downlink Packet Scheduling in Full-Duplex Wireless Mesh Networks. IEEE Communications Letters, 2015, 19, 1810-1813.	4.1	0
160	Minimizing Completion Time in Wireless Networks With In-Band Full Duplex Links. IEEE Access, 2018, 6, 64278-64291.	4.2	0
161	Download Traffic Scheduling for CubeSats Swarms with Inter-Satellite Links. , 2019, , .		0
162	On Enumeration of Spanning Arborescences and Reliability for Network Broadcast in Fixed-Schedule Dynamic Networks. IEEE Transactions on Network Science and Engineering, 2020, 7, 2980-2996.	6.4	0

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163	Optimizing TDMA Schedule and SIC-Capable UAV Position via Gibbs Sampling. IEEE Networking Letters, 2020, 2, 97-100.	1.9	0
164	Link Scheduling in Wireless Powered Communication Networks. , 2020, , .		0
165	A Distributed Device Selection Method to Minimize AoI in RF-Charging Networks. IEEE Communications Letters, 2021, , 1-1.	4.1	0
166	Stochastic Targets Monitoring in Wireless Powered Sensor Networks. IEEE Transactions on Vehicular Technology, 2020, 69, 15908-15919.	6.3	0
167	Supporting legacy and RFâ€energy harvesting devices in multiâ€cells OFDMA networks. IET Communications, 2020, 14, 3967-3976.	2.2	0
168	Reinforcement Learning Based Routing in EH-WSNs with Dual Alternative Batteries. , 2020, , .		0
169	Learning Algorithms for Complete Targets Coverage in RF-Energy Harvesting Networks. IEEE Transactions on Vehicular Technology, 2022, 71, 3229-3240.	6.3	0
170	On Data Collection in SIC-Capable Spaceâ€"Airâ€"Ground Integrated IoT Networks. IEEE Systems Journal, 2023, 17, 1431-1442.	4.6	0