

Tony Q S Quek

List of Publications by Year in descending order

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578
papers

17,585
citations

18482

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22832

112
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589
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589
docs citations

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10875
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| # | ARTICLE | IF | CITATIONS |
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| 1 | Enhanced intercell interference coordination challenges in heterogeneous networks. IEEE Wireless Communications, 2011, 18, 22-30. | 9.0 | 850 |
| 2 | Federated Learning With Differential Privacy: Algorithms and Performance Analysis. IEEE Transactions on Information Forensics and Security, 2020, 15, 3454-3469. | 6.9 | 773 |
| 3 | Energy Efficient Heterogeneous Cellular Networks. IEEE Journal on Selected Areas in Communications, 2013, 31, 840-850. | 14.0 | 495 |
| 4 | Offloading in Mobile Edge Computing: Task Allocation and Computational Frequency Scaling. IEEE Transactions on Communications, 2017, , 1-1. | 7.8 | 472 |
| 5 | Sensor OpenFlow: Enabling Software-Defined Wireless Sensor Networks. IEEE Communications Letters, 2012, 16, 1896-1899. | 4.1 | 412 |
| 6 | Scheduling Policies for Federated Learning in Wireless Networks. IEEE Transactions on Communications, 2020, 68, 317-333. | 7.8 | 386 |
| 7 | Throughput Optimization, Spectrum Allocation, and Access Control in Two-Tier Femtocell Networks. IEEE Journal on Selected Areas in Communications, 2012, 30, 561-574. | 14.0 | 351 |
| 8 | Resource Allocation for Cognitive Small Cell Networks: A Cooperative Bargaining Game Theoretic Approach. IEEE Transactions on Wireless Communications, 2015, 14, 3481-3493. | 9.2 | 311 |
| 9 | Cognitive Network Interference. IEEE Journal on Selected Areas in Communications, 2011, 29, 480-493. | 14.0 | 266 |
| 10 | Cooperative Caching and Transmission Design in Cluster-Centric Small Cell Networks. IEEE Transactions on Wireless Communications, 2017, 16, 3401-3415. | 9.2 | 261 |
| 11 | Radio Resource Management for Ultra-Reliable and Low-Latency Communications. , 2017, 55, 72-78. | | 243 |
| 12 | Cross-Layer Optimization for Ultra-Reliable and Low-Latency Radio Access Networks. IEEE Transactions on Wireless Communications, 2018, 17, 127-141. | 9.2 | 218 |
| 13 | Analysis of UWB transmitted-reference communication systems in dense multipath channels. IEEE Journal on Selected Areas in Communications, 2005, 23, 1863-1874. | 14.0 | 215 |
| 14 | Heterogeneous Cellular Networks With Spatio-Temporal Traffic: Delay Analysis and Scheduling. IEEE Journal on Selected Areas in Communications, 2017, 35, 1373-1386. | 14.0 | 211 |
| 15 | Coordinated Multipoint Transmission with Limited Backhaul Data Transfer. IEEE Transactions on Wireless Communications, 2013, 12, 2762-2775. | 9.2 | 181 |
| 16 | Lightweight and Practical Anonymous Authentication Protocol for RFID Systems Using Physically Unclonable Functions. IEEE Transactions on Information Forensics and Security, 2018, 13, 2831-2843. | 6.9 | 165 |
| 17 | Learning for Computation Offloading in Mobile Edge Computing. IEEE Transactions on Communications, 2018, 66, 6353-6367. | 7.8 | 162 |
| 18 | Multi-Armed Bandit-Based Client Scheduling for Federated Learning. IEEE Transactions on Wireless Communications, 2020, 19, 7108-7123. | 9.2 | 155 |

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|----|--|------|-----------|
| 19 | Reconfigurable Security: Edge-Computing-Based Framework for IoT. IEEE Network, 2018, 32, 92-99. | 6.9 | 152 |
| 20 | Cross-Layer Resource Allocation With Elastic Service Scaling in Cloud Radio Access Network. IEEE Transactions on Wireless Communications, 2015, 14, 5068-5081. | 9.2 | 150 |
| 21 | Optimizing Resource Allocation in the Short Blocklength Regime for Ultra-Reliable and Low-Latency Communications. IEEE Transactions on Wireless Communications, 2019, 18, 402-415. | 9.2 | 148 |
| 22 | On Safeguarding Privacy and Security in the Framework of Federated Learning. IEEE Network, 2020, 34, 242-248. | 6.9 | 147 |
| 23 | Vehicular Sensing Networks in a Smart City: Principles, Technologies and Applications. IEEE Wireless Communications, 2018, 25, 122-132. | 9.0 | 143 |
| 24 | Wireless Channel Models for Maritime Communications. IEEE Access, 2018, 6, 68070-68088. | 4.2 | 134 |
| 25 | Service Multiplexing and Revenue Maximization in Sliced C-RAN Incorporated With URLLC and Multicast eMBB. IEEE Journal on Selected Areas in Communications, 2019, 37, 881-895. | 14.0 | 132 |
| 26 | Hybrid Full-/Half-Duplex System Analysis in Heterogeneous Wireless Networks. IEEE Transactions on Wireless Communications, 2015, , 1-1. | 9.2 | 131 |
| 27 | Heterogeneous Cellular Network With Energy Harvesting-Based D2D Communication. IEEE Transactions on Wireless Communications, 2016, 15, 1406-1419. | 9.2 | 131 |
| 28 | Successive Interference Cancellation in Heterogeneous Networks. IEEE Transactions on Communications, 2014, 62, 4440-4453. | 7.8 | 125 |
| 29 | Enabling intelligence in fog computing to achieve energy and latency reduction. Digital Communications and Networks, 2019, 5, 3-9. | 5.0 | 122 |
| 30 | Device-to-Device Underlaid Cellular Networks under Rician Fading Channels. IEEE Transactions on Wireless Communications, 2014, 13, 4247-4259. | 9.2 | 118 |
| 31 | Electric Vehicle Charging in Smart Grid: Optimality and Valley-Filling Algorithms. IEEE Journal on Selected Topics in Signal Processing, 2014, 8, 1073-1083. | 10.8 | 118 |
| 32 | Deceptive Attack and Defense Game in Honeypot-Enabled Networks for the Internet of Things. IEEE Internet of Things Journal, 2016, 3, 1025-1035. | 8.7 | 118 |
| 33 | Fundamentals of Heterogeneous Backhaul Design—Analysis and Optimization. IEEE Transactions on Communications, 2016, 64, 876-889. | 7.8 | 113 |
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| 37 | Age-Based Scheduling Policy for Federated Learning in Mobile Edge Networks. , 2020, , . | | 104 |
| 38 | Beamforming optimization for multiuser two-tier networks. Journal of Communications and Networks, 2011, 13, 327-338. | 2.6 | 100 |
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| 42 | Backhauling in Heterogeneous Cellular Networks: Modeling and Tradeoffs. IEEE Transactions on Wireless Communications, 2015, 14, 3194-3206. | 9.2 | 91 |
| 43 | System Cost Minimization in Cloud RAN With Limited Fronthaul Capacity. IEEE Transactions on Wireless Communications, 2017, 16, 3371-3384. | 9.2 | 88 |
| 44 | Cooperation and Storage Tradeoffs in Power Grids With Renewable Energy Resources. IEEE Journal on Selected Areas in Communications, 2014, 32, 1386-1397. | 14.0 | 84 |
| 45 | Jamming-Aided Secure Communication in Massive MIMO Rician Channels. IEEE Transactions on Wireless Communications, 2015, 14, 6854-6868. | 9.2 | 83 |
| 46 | A Unified Analysis of Max-Min Weighted SINR for MIMO Downlink System. IEEE Transactions on Signal Processing, 2011, 59, 3850-3862. | 5.3 | 82 |
| 47 | On the Stability of Static Poisson Networks Under Random Access. IEEE Transactions on Communications, 2016, 64, 2985-2998. | 7.8 | 82 |
| 48 | Deep Learning for Distributed Optimization: Applications to Wireless Resource Management. IEEE Journal on Selected Areas in Communications, 2019, 37, 2251-2266. | 14.0 | 82 |
| 49 | Outage behavior of selective relaying schemes. IEEE Transactions on Wireless Communications, 2009, 8, 3890-3895. | 9.2 | 79 |
| 50 | Transmit Antenna Selection in MIMO Wiretap Channels: A Machine Learning Approach. IEEE Wireless Communications Letters, 2018, 7, 634-637. | 5.0 | 78 |
| 51 | Hybrid Satellite-UAV-Terrestrial Networks for 6G Ubiquitous Coverage: A Maritime Communications Perspective. IEEE Journal on Selected Areas in Communications, 2021, 39, 3475-3490. | 14.0 | 74 |
| 52 | Non-Orthogonal Multiple Access Assisted Federated Learning via Wireless Power Transfer: A Cost-Efficient Approach. IEEE Transactions on Communications, 2022, 70, 2853-2869. | 7.8 | 74 |
| 53 | Unified Analysis of UWB Transmitted-Reference Schemes in the Presence of Narrowband Interference. IEEE Transactions on Wireless Communications, 2007, 6, 2126-2139. | 9.2 | 72 |
| 54 | Max-Min SINR Coordinated Multipoint Downlink Transmission Duality and Algorithms. IEEE Transactions on Signal Processing, 2012, 60, 5384-5395. | 5.3 | 72 |

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| 56 | Analyzing Random Access Collisions in Massive IoT Networks. IEEE Transactions on Wireless Communications, 2018, 17, 6853-6870. | 9.2 | 71 |
| 57 | On the Design of Computation Offloading in Fog Radio Access Networks. IEEE Transactions on Vehicular Technology, 2019, 68, 7136-7149. | 6.3 | 70 |
| 58 | Resilience of DoS Attacks in Designing Anonymous User Authentication Protocol for Wireless Sensor Networks. IEEE Sensors Journal, 2017, 17, 498-503. | 4.7 | 68 |
| 59 | Computation Offloading for Mobile Edge Computing Enabled Vehicular Networks. IEEE Access, 2019, 7, 62624-62632. | 4.2 | 68 |
| 60 | Reconfiguration in Network Slicing—Optimizing the Profit and Performance. IEEE Transactions on Network and Service Management, 2019, 16, 591-605. | 4.9 | 67 |
| 61 | Toward Ultrareliable Low-Latency Communications: Typical Scenarios, Possible Solutions, and Open Issues. IEEE Vehicular Technology Magazine, 2019, 14, 94-102. | 3.4 | 66 |
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| 64 | Robust Wireless Relay Networks: Slow Power Allocation With Guaranteed QoS. IEEE Journal on Selected Topics in Signal Processing, 2007, 1, 700-713. | 10.8 | 63 |
| 65 | Energy-Efficient Design of MIMO Heterogeneous Networks with Wireless Backhaul. IEEE Transactions on Wireless Communications, 2016, , 1-1. | 9.2 | 63 |
| 66 | Decentralized Precoding for Multicell MIMO Downlink. IEEE Transactions on Wireless Communications, 2011, 10, 1798-1809. | 9.2 | 62 |
| 67 | Optimizing Information Freshness in Computing-Enabled IoT Networks. IEEE Internet of Things Journal, 2020, 7, 971-985. | 8.7 | 62 |
| 68 | On Robustness of Network Slicing for Next-Generation Mobile Networks. IEEE Transactions on Communications, 2019, 67, 430-444. | 7.8 | 60 |
| 69 | Proportional Fairness-Based Resource Allocation for LTE-U Coexisting With Wi-Fi. IEEE Access, 2017, 5, 4720-4731. | 4.2 | 59 |
| 70 | Content-Aware Proactive Caching for Backhaul Offloading in Cellular Network. IEEE Transactions on Wireless Communications, 2018, 17, 3128-3140. | 9.2 | 58 |
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| 74 | Optimizing Information Freshness in Wireless Networks: A Stochastic Geometry Approach. IEEE Transactions on Mobile Computing, 2021, 20, 2269-2280. | 5.8 | 55 |
| 75 | Online Learning Based Computation Offloading in MEC Systems With Communication and Computation Dynamics. IEEE Transactions on Communications, 2021, 69, 1147-1162. | 7.8 | 55 |
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| 78 | Robust Power Allocation Algorithms for Wireless Relay Networks. IEEE Transactions on Communications, 2010, 58, 1931-1938. | 7.8 | 51 |
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| 80 | Non-Coherent UWB Communication in the Presence of Multiple Narrowband Interferers. IEEE Transactions on Wireless Communications, 2010, 9, 3365-3379. | 9.2 | 50 |
| 81 | Heterogeneous Cellular Networks Using Wireless Backhaul: Fast Admission Control and Large System Analysis. IEEE Journal on Selected Areas in Communications, 2015, 33, 2128-2143. | 14.0 | 50 |
| 82 | Energy Efficient D2D Communications: A Perspective of Mechanism Design. IEEE Transactions on Wireless Communications, 2016, 15, 7272-7285. | 9.2 | 50 |
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| 87 | GRAAD: Group Anonymous and Accountable D2D Communication in Mobile Networks. IEEE Transactions on Information Forensics and Security, 2018, 13, 449-464. | 6.9 | 47 |
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| 90 | An Incentive-Aware Job Offloading Control Framework for Multi-Access Edge Computing. IEEE Transactions on Mobile Computing, 2021, 20, 63-75. | 5.8 | 45 |

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| 92 | A Stochastic Geometry Model for Vehicular Communication near Intersections. , 2015, , . | | 44 |
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| 94 | Federated Learning With Non-IID Data in Wireless Networks. IEEE Transactions on Wireless Communications, 2022, 21, 1927-1942. | 9.2 | 44 |
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| 99 | Cognitive Hybrid Division Duplex for Two-Tier Femtocell Networks. IEEE Transactions on Wireless Communications, 2013, 12, 4852-4865. | 9.2 | 41 |
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| 101 | Wireless-Powered Two-Way Relaying Protocols for Optimizing Physical Layer Security. IEEE Transactions on Information Forensics and Security, 2019, 14, 162-174. | 6.9 | 41 |
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| 104 | Deep Learning Framework for Wireless Systems: Applications to Optical Wireless Communications. IEEE Communications Magazine, 2019, 57, 35-41. | 6.1 | 41 |
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| 109 | MagicNet: The Maritime Giant Cellular Network. IEEE Communications Magazine, 2021, 59, 117-123. | 6.1 | 39 |
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| 116 | Energy-Recycling Full-Duplex Radios for Next-Generation Networks. IEEE Journal on Selected Areas in Communications, 2015, 33, 2948-2962. | 14.0 | 37 |
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| 121 | Uplink Transmission Design with Massive Machine Type Devices in Tactile Internet. , 2016, , . | | 35 |
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| 131 | Traffic Adaptation and Energy Efficiency for Small Cell Networks With Dynamic TDD. IEEE Journal on Selected Areas in Communications, 2016, 34, 3234-3251. | 14.0 | 31 |
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| 142 | Double Auction Mechanism Design for Video Caching in Heterogeneous Ultra-Dense Networks. IEEE Transactions on Wireless Communications, 2019, 18, 1669-1683. | 9.2 | 29 |
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| 145 | Adaptive Cloud Radio Access Networks: Compression and Optimization. IEEE Transactions on Signal Processing, 2017, 65, 228-241. | 5.3 | 28 |
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| 148 | On the Asynchrony of Computation Offloading in Multi-User MEC Systems. IEEE Transactions on Communications, 2020, 68, 7746-7761. | 7.8 | 28 |
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| 154 | Caching Efficiency Maximization for Device-to-Device Communication Networks: A Recommend to Cache Approach. IEEE Transactions on Wireless Communications, 2021, 20, 6580-6594. | 9.2 | 27 |
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