

# Ding Xu

## List of Publications by Year in descending order

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116  
papers

1,059  
citations

516710

16  
h-index

526287

27  
g-index

116  
all docs

116  
docs citations

116  
times ranked

701  
citing authors

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | Joint Power Control and Time Allocation for Wireless Powered Underlay Cognitive Radio Networks. IEEE Wireless Communications Letters, 2017, 6, 294-297.                   | 5.0 | 96        |
| 2  | Energy-Saving Computation Offloading by Joint Data Compression and Resource Allocation for Mobile-Edge Computing. IEEE Communications Letters, 2019, 23, 704-707.         | 4.1 | 64        |
| 3  | Secure Transmission for SWIPT IoT Systems With Full-Duplex IoT Devices. IEEE Internet of Things Journal, 2019, 6, 10915-10933.  | 8.7 | 63        |
| 4  | Cooperative Resource Allocation in Cognitive Radio Networks With Wireless Powered Primary Users. IEEE Wireless Communications Letters, 2017, 6, 658-661.                  | 5.0 | 45        |
| 5  | Resource Allocation for Cognitive Radio With Primary User Secrecy Outage Constraint. IEEE Systems Journal, 2018, 12, 893-904.   | 4.6 | 36        |
| 6  | Resource Allocation for Secure Communications in Cooperative Cognitive Wireless Powered Communication Networks. IEEE Systems Journal, 2019, 13, 2431-2442.                | 4.6 | 35        |
| 7  | Intelligent and efficient development of wireless networks: A review of cognitive radio networks. Science Bulletin, 2012, 57, 3662-3676.                                  | 1.7 | 34        |
| 8  | Fair channel allocation and power control for uplink and downlink cognitive radio networks. , 2011, , .   |     | 33        |
| 9  | Large-Scale Characteristics of 5.25 GHz Based on Wideband MIMO Channel Measurements. IEEE Antennas and Wireless Propagation Letters, 2007, 6, 263-266.                    | 4.0 | 28        |
| 10 | Sum-Rate Maximization of Wireless Powered Primary Users for Cooperative CRNs: NOMA or TDMA at Cognitive Users?. IEEE Transactions on Communications, 2021, 69, 4862-4876. | 7.8 | 26        |
| 11 | Jammer-Assisted Legitimate Eavesdropping in Wireless Powered Suspicious Communication Networks. IEEE Access, 2019, 7, 20363-20380.  | 4.2 | 25        |
| 12 | Proactive Eavesdropping of Suspicious Non-Orthogonal Multiple Access Networks. IEEE Transactions on Vehicular Technology, 2020, 69, 13958-13963.                          | 6.3 | 24        |
| 13 | Joint computation offloading and resource allocation for NOMA-based multi-access mobile edge computing systems. Computer Networks, 2021, 196, 108256.                     | 5.1 | 23        |
| 14 | Indoor Office Propagation Measurements and Path Loss Models at 5.25 GHz. Vehicular Technology Conference-Fall (VTC-FALL), Proceedings, IEEE, 2007, , .                    | 0.0 | 22        |
| 15 | Secrecy Outage Performance Analysis of Cooperative NOMA Networks With SWIPT. IEEE Wireless Communications Letters, 2021, 10, 1474-1478.                                   | 5.0 | 20        |
| 16 | Outage Minimized Resource Allocation for Multiuser OFDM Systems With SWIPT. IEEE Access, 2019, 7, 79714-79725.  | 4.2 | 18        |
| 17 | Jamming-Assisted Legitimate Surveillance of Suspicious Interference Networks With Successive Interference Cancellation. IEEE Communications Letters, 2020, 24, 396-400.   | 4.1 | 17        |
| 18 | Effective capacity region and power allocation for two-way spectrum sharing cognitive radio networks. Science China Information Sciences, 2015, 58, 1-10.                 | 4.3 | 16        |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 19 | Optimization of wireless information and power transfer in multiuser OFDM systems. AEU - International Journal of Electronics and Communications, 2018, 90, 171-174.  | 2.9 | 15        |
| 20 | Resource allocation in cognitive wireless powered communication networks with wirelessly powered secondary users and primary users. Science China Information Sciences, 2019, 62, 1.  | 4.3 | 15        |
| 21 | On the Impacts of Channel Estimation Errors and Feedback Delay on the Ergodic Capacity for Spectrum Sharing Cognitive Radio. Wireless Personal Communications, 2013, 72, 1875-1887.   | 2.7 | 14        |
| 22 | Price-based time and energy allocation in cognitive radio multiple access networks with energy harvesting. Science China Information Sciences, 2017, 60, 1.   | 4.3 | 14        |
| 23 | Improving physical-layer security for primary users in cognitive radio networks. IET Communications, 2017, 11, 2303-2310.   | 2.2 | 14        |
| 24 | Joint power and rate allocation for spectrum sharing cognitive radio multicast networks under service outage constraint. AEU - International Journal of Electronics and Communications, 2013, 67, 585-587.                    | 2.9 | 13        |
| 25 | Resource allocation for heterogeneous services in multiuser cognitive radio networks. International Journal of Communication Systems, 2014, 27, 2121-2140.  | 2.5 | 13        |
| 26 | Legitimate Surveillance of Suspicious Communications With QoS Guarantees for Unsuspicious Users. IEEE Communications Letters, 2020, 24, 1400-1404.  | 4.1 | 13        |
| 27 | Spectrum Sharing Incentive for Legitimate Wireless Information Surveillance. IEEE Transactions on Vehicular Technology, 2021, 70, 2529-2543.  | 6.3 | 13        |
| 28 | Minimum average BER power allocation for fading channels in cognitive radio networks. , 2011, , .   |     | 12        |
| 29 | On the Outage Performance of JT-CoMP-CNOMA Networks With SWIPT. IEEE Communications Letters, 2021, 25, 432-436.   | 4.1 | 12        |
| 30 | On the effective capacity region for cognitive radio multiple access channels. AEU - International Journal of Electronics and Communications, 2015, 69, 958-961.  | 2.9 | 11        |
| 31 | Resource allocation for outage probability minimisation in cognitive radio multicast networks. Transactions on Emerging Telecommunications Technologies, 2016, 27, 51-63.   | 3.9 | 11        |
| 32 | Offloading data traffic via cognitive small cells with wireless powered user equipments. Eurasip Journal on Wireless Communications and Networking, 2017, 2017, .   | 2.4 | 11        |
| 33 | Resource allocation in OFDM-based wireless powered communication networks with SWIPT. AEU - International Journal of Electronics and Communications, 2019, 101, 69-75.  | 2.9 | 11        |
| 34 | Legitimate Surveillance With Battery-Aided Wireless Powered Full-Duplex Monitor. IEEE Systems Journal, 2020, 14, 5229-5232.   | 4.6 | 11        |
| 35 | Ergodic capacity and outage probability optimization for secondary user in cognitive - radio networks under interference outage constraint. AEU - International Journal of Electronics and Communications, 2014, 68, 747-755. | 2.9 | 10        |
| 36 | Cooperative resource allocation in cognitive wireless powered communication networks with energy accumulation and deadline requirements. Science China Information Sciences, 2019, 62, 1.                                     | 4.3 | 10        |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 37 | Jamming-Assisted Legitimate Eavesdropping and Secure Communication in Multicarrier Interference Networks. IEEE Systems Journal, 2022, 16, 954-965.  | 4.6 | 10        |
| 38 | Legitimate Surveillance of Suspicious Computation Offloading in Mobile Edge Computing Networks. IEEE Transactions on Communications, 2022, 70, 2648-2662.   | 7.8 | 10        |
| 39 | Outage Probability Minimizing Power/Rate Control for Cognitive Radio Multicast Networks. , 2011, , .  |     | 8         |
| 40 | Effective capacity of delay quality-of-service constrained spectrum sharing cognitive radio with outdated channel feedback. Science China Information Sciences, 2013, 56, 1-13.   | 4.3 | 8         |
| 41 | Minimizing secrecy outage probability for primary users in cognitive radio networks. AEU - International Journal of Electronics and Communications, 2018, 83, 353-358.  | 2.9 | 8         |
| 42 | Resource Allocation in Cognitive Wireless Powered Communication Networks under Outage Constraint. , 2018, , .   |     | 8         |
| 43 | Proactive Eavesdropping for Wireless Information Surveillance Under Suspicious Communication Quality-of-Service Constraint. IEEE Transactions on Wireless Communications, 2022, 21, 5220-5234.                            | 9.2 | 8         |
| 44 | Optimal Power Control of Cognitive Radio under SINR Constraint with Primary User's Cooperation. IEICE Transactions on Communications, 2011, E94-B, 2685-2689.   | 0.7 | 7         |
| 45 | Radio resource management for public femtocell networks. Eurasip Journal on Wireless Communications and Networking, 2011, 2011, .   | 2.4 | 7         |
| 46 | Resource allocation in underlay cognitive radio networks with full-duplex cognitive base station. International Journal of Communication Systems, 2017, 30, e3321.  | 2.5 | 7         |
| 47 | Legitimate Surveillance of Suspicious Multichannel DF Relay Networks With Monitor Mode Selection. IEEE Wireless Communications Letters, 2021, 10, 401-405.  | 5.0 | 7         |
| 48 | Proactive Eavesdropping Over OFDM-Based Bidirectional Suspicious Communication Channels. IEEE Wireless Communications Letters, 2021, 10, 1178-1182.   | 5.0 | 7         |
| 49 | An Architecture for Cognitive Radio Networks with Cognition, Self-Organization and Reconfiguration Capabilities. , 2012, , .  |     | 6         |
| 50 | Power allocation for two-user cognitive multiple access channels under primary user outage constraint. International Journal of Communication Systems, 2017, 30, e3096.   | 2.5 | 6         |
| 51 | Automated Optimal Configuring of Femtocell Base Stations' Parameters in Enterprise Femtocell Network. , 2011, , .   |     | 5         |
| 52 | Protecting Primary Users in Cognitive Radio Networks with Effective Capacity Loss Constraint. IEICE Transactions on Communications, 2012, E95-B, 349-353.   | 0.7 | 5         |
| 53 | Joint Power and Rate Allocation in Cognitive Radio Multicast Networks for Outage Probability Minimization. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2014, E97.A, 904-906. | 0.3 | 5         |
| 54 | On the Outage Capacity of Fading Cognitive Multicast Channel. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2014, E97.A, 2272-2275.  | 0.3 | 5         |

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|----|--|-----|-----------|
| 55 | Optimal power allocation and relay selection in dual-hop and multi-hop cognitive networks. , 2012, , .   |     | 4         |
| 56 | Service Outage Constrained Outage Probability Minimizing Joint Channel, Power and Rate Allocation for Cognitive Radio Multicast Networks. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2015, E98.A, 1854-1857. | 0.3 | 4         |
| 57 | Capacity of cognitive radio under delay quality-of-service constraints with outdated channel feedback. , 2012, , .   |     | 3         |
| 58 | Outage Capacity of Spectrum Sharing Cognitive Radio with Channel Estimation Errors and Feedback Delay in Rayleigh Fading Environments. Frequenz, 2013, 67, .   | 0.9 | 3         |
| 59 | Resource allocation in delay-QoS constrained multiuser cognitive radio networks. , 2014, , .   |     | 3         |
| 60 | A Novel Virtual Network Fault Diagnosis Method Based on Long Short-Term Memory Neural Networks. , 2017, , .  |     | 3         |
| 61 | Secure communication in wireless powered communication networks with energy accumulation. Science China Information Sciences, 2021, 64, 1.   | 4.3 | 3         |
| 62 | Power Allocation for Two-Way OFDM-Based Spectrum Sharing Cognitive Radio Networks. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2015, E98.A, 918-922.  | 0.3 | 3         |
| 63 | Power Allocation Schemes For Downlink Cognitive Radio Networks With Opportunistic Sub-channel Access. KSII Transactions on Internet and Information Systems, 2012, , .   | 0.3 | 3         |
| 64 | Joint User and Power Allocation in Underlay Cognitive Radio Networks with Multiple Primary Users' Security Constraints. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2017, E100.A, 2061-2064.                  | 0.3 | 3         |
| 65 | Auction-Based Resource Allocation for Mobile Edge Computing Networks. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2020, E103.A, 718-722.  | 0.3 | 3         |
| 66 | Resource allocation for multiuser cognitive radio with primary user's cooperation. , 2011, , .   |     | 2         |
| 67 | Outage Capacity of Spectrum Sharing Cognitive Radio with MRC Diversity and Outdated CSI under Asymmetric Fading. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2013, E96.A, 732-736.                            | 0.3 | 2         |
| 68 | Joint user association and resource allocation for cognitive radio networks. , 2014, , .   |     | 2         |
| 69 | Resource allocation for chunk-based multi-carrier cognitive radio networks. , 2014, , .  |     | 2         |
| 70 | Energy efficient joint scheduling and resource allocation for downlink cognitive radio networks. , 2015, , .   |     | 2         |
| 71 | Optimal power allocation for cognitive radio networks with primary user secrecy rate loss constraint. , 2015, , .  |     | 2         |
| 72 | Energy Efficient Power Allocation for Delay-QoS Constrained Cognitive Radio Networks. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2016, E99.A, 1264-1267.   | 0.3 | 2         |

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|----|--|-----|-----------|
| 73 | Optimization of multiuser multichannel cognitive radio networks with wireless information and power transfer. , 2016, , .  |     | 2         |
| 74 | An Efficient Resource Allocation Algorithm for Underlay Cognitive Radio Multichannel Multicast Networks. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2017, E100.A, 2065-2068. | 0.3 | 2         |
| 75 | Energy Efficient Joint Channel and Power allocation for Energy Harvesting Cognitive Radio Networks. , 2018, , .  |     | 2         |
| 76 | A Three-Stage Stackelberg Game for Secure Communication with a Wireless Powered Jammer. , 2019, , .  |     | 2         |
| 77 | Secure communication with joint resource allocation, relay and jammer selection in OFDM-based cooperative networks. International Journal of Communication Systems, 2021, 34, e4763.                                       | 2.5 | 2         |
| 78 | Power Allocation for Ergodic Capacity and Outage Probability Tradeoff in Cognitive Radio Networks. IEICE Transactions on Communications, 2015, E98.B, 1988-1995.   | 0.7 | 2         |
| 79 | Legitimate Surveillance with a Wireless Powered Monitor in Rayleigh Fading Channels. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2018, E101.A, 293-297.                       | 0.3 | 2         |
| 80 | Secure Transmission in Wireless Powered Communication Networks with Full-Duplex Receivers. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2019, E102.A, 750-754.                 | 0.3 | 2         |
| 81 | Proactive eavesdropping of wireless powered suspicious interference networks. Science China Information Sciences, 2021, 64, 1.   | 4.3 | 2         |
| 82 | On the Secrecy Outage Performance of Cooperative NOMA-Assisted Hybrid Satellite-Terrestrial Networks. Wireless Communications and Mobile Computing, 2022, 2022, 1-15.  | 1.2 | 2         |
| 83 | Effects of outdated channel state information in partial relay selection systems with multiple antennas at the destination. , 2011, , .  |     | 1         |
| 84 | Discriminative Reference-Based Scene Image Categorization. IEICE Transactions on Information and Systems, 2014, E97.D, 2823-2826.  | 0.7 | 1         |
| 85 | Power allocation for two-user cognitive multiple access channels under primary user outage constraint. , 2015, , .   |     | 1         |
| 86 | Energy efficient resource allocation for multiple primary and secondary users in cognitive radio networks with limited primary users' cooperation. , 2015, , .   |     | 1         |
| 87 | Joint power and time allocation for wireless powered cognitive radio multiple access networks with or without SIC. , 2016, , .   |     | 1         |
| 88 | Power allocation for cognitive radio with hybrid energy supplies. , 2017, , .  |     | 1         |
| 89 | Secure Communications for Primary Users in Cognitive Radio Networks with Collusive Eavesdroppers. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2018, E101.A, 1970-1974.        | 0.3 | 1         |
| 90 | Proactive Eavesdropping through a Third-Party Jammer. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2018, E101.A, 878-882.  | 0.3 | 1         |

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|-----|---|-----|-----------|
| 91  | Secure Transmission in Multicarrier Power-Splitting Wireless Powered Communication Networks with Full-duplex Receivers. , 2019, , .   |     | 1         |
| 92  | A Stackelberg Game for Cooperative Cognitive Wireless Powered Communication Networks with Multiple Primary Users. , 2019, , .   |     | 1         |
| 93  | Resource Allocation for Outage Probability Minimization in Cognitive Wireless Powered Communication Networks. , 2019, , .   |     | 1         |
| 94  | Secure Communication with a Wireless Powered Full-Duplex Eavesdropper. , 2019, , .  |     | 1         |
| 95  | Outage Minimized Joint Power Splitting and Resource Allocation optimization for Multiuser OFDM Systems with SWIPT. , 2019, , .  |     | 1         |
| 96  | Wireless Information Surveillance Over Multiple Time Slots. IEEE Systems Journal, 2021, , 1-4.  | 4.6 | 1         |
| 97  | Outage performance of CoMP-CNOMA networks with duplex mode selection. Physical Communication, 2022, 52, 101701.   | 2.1 | 1         |
| 98  | Capacity of cognitive radio under outage constraint with partial channel knowledge. , 2011, , .   |     | 0         |
| 99  | Capacity of Cognitive Radio with Partial Channel Distribution Information in Rayleigh Fading Environments. Frequenz, 2015, 69, .  | 0.9 | 0         |
| 100 | Energy efficient joint chunk and power allocation for chunk-based multi-carrier cognitive radio networks. , 2015, , .   |     | 0         |
| 101 | Resource allocation in wireless virtualized networks with energy harvesting. , 2016, , .  |     | 0         |
| 102 | Joint user pairing and resource allocation in full-duplex underlay cognitive radio networks. , 2016, , .  |     | 0         |
| 103 | Power Allocation for Energy-Harvesting-based Fading Cognitive Multiple Access Channels: with or without Successive Interference Cancellation. International Journal of Electronics and Telecommunications, 2017, 63, 65-72. | 0.6 | 0         |
| 104 | Optimal Power Allocation for CC-HARQ-based Cognitive Radio with Statistical CSI in Nakagami Slow Fading Channels. Frequenz, 2017, 71, 65-72.  | 0.9 | 0         |
| 105 | Traffic Offloading Through Third-Party Cognitive Small Cells with Dual-Connectivity. , 2018, , .  |     | 0         |
| 106 | Antenna Selection and Resource Allocation in Wireless Powered Communication Networks with Self-Energy Recycling. , 2018, , .  |     | 0         |
| 107 | Cooperative Resource Allocation in Cognitive Wireless Powered Communication Networks with Minimum Rate Requirements. , 2018, , .  |     | 0         |
| 108 | Resource Allocation for Mobile Data Offloading Through Third-Party Cognitive Small Cells. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2019, , 438-447.     | 0.3 | 0         |

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|-----|--|-----|-----------|
| 109 | Price-Based Resource Allocation in Cooperative Cognitive Wireless Powered Communication Networks. , 2019, , .  |     | 0         |
| 110 | Secure Communication with a SWIPT-based Energy Harvesting Eavesdropper. , 2019, , .  |     | 0         |
| 111 | Secure Transmission in Multicarrier Time-Switching Wireless Powered Communication Networks with Full-duplex Receivers. , 2019, , .   |     | 0         |
| 112 | Legitimate eavesdropping of wireless powered suspicious communication networks with a monitoring power station. Physical Communication, 2020, 42, 101142.  | 2.1 | 0         |
| 113 | Impact of the Primary User's Power Allocation on the Performance of the Secondary User in Cognitive Radio Networks. IEICE Transactions on Communications, 2013, E96.B, 668-672.                                      | 0.7 | 0         |
| 114 | Sum Outage Capacity Maximization in Cognitive Radio Networks with Channel Distribution Information. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2016, E99.A, 2600-2603. | 0.3 | 0         |
| 115 | Legitimate Eavesdropping with Multiple Wireless Powered Eavesdroppers. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2020, , 205-215.                 | 0.3 | 0         |
| 116 | Secure Communication with a Proactive Eavesdropper Under Perfect CSI and CDI. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2020, , 525-536.          | 0.3 | 0         |