

# Kai-Kit Wong

## List of Publications by Year in Descending Order

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**Version:** 2024-04-24

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

304  
papers

8,785  
citations

45  
h-index

82  
g-index

340  
ext. papers

11,167  
ext. citations

6.4  
avg, IF

6.86  
L-index

| #   | Paper   | IF   | Citations |
|-----|---|------|-----------|
| 304 | Cell-Free IoT Networks with SWIPT: Performance Analysis and Power Control. <i>IEEE Internet of Things Journal</i> , <b>2022</b> , 1-1   | 10.7 | 0         |
| 303 | Adaptive Aggregate Transmission for Device-to-Multi-Device Aided Cooperative NOMA Networks. <i>IEEE Journal on Selected Areas in Communications</i> , <b>2022</b> , 1-1                           | 14.2 | 1         |
| 302 | Achievable Regions and Precoder Designs for the Multiple Access Wiretap Channels with Confidential and Open Messages. <i>IEEE Journal on Selected Areas in Communications</i> , <b>2022</b> , 1-1 | 14.2 | 1         |
| 301 | Energy Efficiency Optimization for D2D Communications Underlying UAV-assisted Industrial IoT Networks with SWIPT. <i>IEEE Internet of Things Journal</i> , <b>2022</b> , 1-1                      | 10.7 | 3         |
| 300 | Port Selection for Fluid Antenna Systems. <i>IEEE Communications Letters</i> , <b>2022</b> , 1-1  | 3.8  | 4         |
| 299 | Thinking Out of the Blocks: Holochain for Distributed Security in IoT Healthcare. <i>IEEE Access</i> , <b>2022</b> , 1-1  | 3.5  | 2         |
| 298 | Multi-Objective Optimization for Spectrum and Energy Efficiency Tradeoff in IRS-Assisted CRNs with NOMA. <i>IEEE Transactions on Wireless Communications</i> , <b>2022</b> , 1-1                  | 9.6  | 6         |
| 297 | Massive Unsourced Random Access: Exploiting Angular Domain Sparsity. <i>IEEE Transactions on Communications</i> , <b>2022</b> , 1-1   | 6.9  | 2         |
| 296 | Bruce Lee-Inspired Fluid Antenna System: Six Research Topics and the Potentials for 6G. <i>Frontiers in Communications and Networks</i> , <b>2022</b> , 3,  | 3.3  | 3         |
| 295 | Joint Deployment and Resource Management for VLC-enabled RISs-assisted UAV Networks. <i>IEEE Transactions on Wireless Communications</i> , <b>2022</b> , 1-1                                      | 9.6  | 1         |
| 294 | Physical Layer Security in Large-Scale Random Multiple Access Wireless Sensor Networks: A Stochastic Geometry Approach. <i>IEEE Transactions on Communications</i> , <b>2022</b> , 1-1            | 6.9  | 1         |
| 293 | Robust Design for RIS-Assisted Anti-Jamming Communications with Imperfect Angular Information: A Game-Theoretic Perspective. <i>IEEE Transactions on Vehicular Technology</i> , <b>2022</b> , 1-1 | 6.8  | 1         |
| 292 | Energy-Efficient Hybrid Beamforming for Multi-Layer RIS-Assisted Secure Integrated Terrestrial-Aerial Networks. <i>IEEE Transactions on Communications</i> , <b>2022</b> , 1-1                    | 6.9  | 8         |
| 291 | MIMO Evolution Beyond 5G Through Reconfigurable Intelligent Surfaces and Fluid Antenna Systems. <i>Proceedings of the IEEE</i> , <b>2022</b> , 1-22   | 14.3 | 4         |
| 290 | User cooperation for IRS-aided secure MIMO systems. <i>Intelligent and Converged Networks</i> , <b>2022</b> , 3, 86-102   |      | 0         |
| 289 | RIS-Assisted Robust Hybrid Beamforming Against Simultaneous Jamming and Eavesdropping Attacks. <i>IEEE Transactions on Wireless Communications</i> , <b>2022</b> , 1-1                            | 9.6  | 4         |
| 288 | Fluid Antenna Multiple Access. <i>IEEE Transactions on Wireless Communications</i> , <b>2021</b> , 1-1  | 9.6  | 5         |

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|-----|--|------|----|
| 287 | Joint altitude and hybrid beamspace precoding optimization for UAV-enabled multiuser mmWave MIMO System. <i>IEEE Transactions on Vehicular Technology</i> , <b>2021</b> , 1-1                                  | 6.8  | 3  |
| 286 | Resource Allocation for Secure SWIPT-enabled D2D Communications with Alpha Fairness. <i>IEEE Transactions on Vehicular Technology</i> , <b>2021</b> , 1-1  | 6.8  | 4  |
| 285 | Cross-Layer Optimization for Industrial Internet of Things in NOMA-based C-RANs. <i>IEEE Internet of Things Journal</i> , <b>2021</b> , 1-1  | 10.7 | 0  |
| 284 | Energy Efficient Resource Allocation for UCA-Based OAM-MIMO System. <i>Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering</i> , <b>2021</b> , 189-200 | 0.2  |    |
| 283 | IRS-Assisted Secure UAV Transmission via Joint Trajectory and Beamforming Design. <i>IEEE Transactions on Communications</i> , <b>2021</b> , 1-1   | 6.9  | 21 |
| 282 | Robust Design for Intelligent Reflecting Surface Assisted Secrecy SWIPT Network. <i>IEEE Transactions on Wireless Communications</i> , <b>2021</b> , 1-1   | 9.6  | 11 |
| 281 | Offset Learning based Channel Estimation for Intelligent Reflecting Surface-Assisted Indoor Communication. <i>IEEE Journal on Selected Topics in Signal Processing</i> , <b>2021</b> , 1-1                     | 7.5  | 2  |
| 280 | Learning Rate Optimization for Federated Learning Exploiting Over-the-Air Computation. <i>IEEE Journal on Selected Areas in Communications</i> , <b>2021</b> , 39, 3742-3756                                   | 14.2 | 16 |
| 279 | Fluid Antenna Systems. <i>IEEE Transactions on Wireless Communications</i> , <b>2021</b> , 20, 1950-1962   | 9.6  | 9  |
| 278 | Federated-Learning-Based Client Scheduling for Low-Latency Wireless Communications. <i>IEEE Wireless Communications</i> , <b>2021</b> , 28, 32-38  | 13.4 | 6  |
| 277 | Joint 3D Trajectory and Power Optimization for UAV-Aided mmWave MIMO-NOMA Networks. <i>IEEE Transactions on Communications</i> , <b>2021</b> , 69, 2346-2358   | 6.9  | 15 |
| 276 | Unary Coding Design for Simultaneous Wireless Information and Power Transfer With Practical M-QAM. <i>IEEE Transactions on Wireless Communications</i> , <b>2021</b> , 20, 2850-2862                           | 9.6  | 1  |
| 275 | Channel Estimation of IRS-Aided Communication Systems with Hybrid Multiobjective Optimization <b>2021</b> ,  |      | 4  |
| 274 | Reconfigurable Intelligent Surface Aided Mobile Edge Computing: From Optimization-Based to Location-Only Learning-Based Solutions. <i>IEEE Transactions on Communications</i> , <b>2021</b> , 69, 3709-3725    | 6.9  | 24 |
| 273 | Removing Channel Estimation by Location-Only Based Deep Learning for RIS Aided Mobile Edge Computing <b>2021</b> ,   |      | 2  |
| 272 | A Deep Learning-Based Approach to Resource Allocation in UAV-aided Wireless Powered MEC Networks <b>2021</b> ,   |      | 1  |
| 271 | Learning to Optimize Energy Efficiency in Energy Harvesting Wireless Sensor Networks. <i>IEEE Wireless Communications Letters</i> , <b>2021</b> , 10, 1153-1157  | 5.9  | 2  |
| 270 | A Vision to Smart Radio Environment: Surface Wave Communication Superhighways. <i>IEEE Wireless Communications</i> , <b>2021</b> , 28, 112-119   | 13.4 | 6  |

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|-----|---|------|----|
| 269 | Resource Allocation for Enhancing Offloading Security in NOMA-Enabled MEC Networks. <i>IEEE Systems Journal</i> , <b>2021</b> , 15, 3789-3792   | 4.3  | 15 |
| 268 | . <i>IEEE Transactions on Wireless Communications</i> , <b>2021</b> , 20, 1742-1755   | 9.6  | 11 |
| 267 | . <i>IEEE Internet of Things Journal</i> , <b>2021</b> , 8, 6878-6892   | 10.7 | 5  |
| 266 | Massive Access in Cell-Free Massive MIMO-Based Internet of Things: Cloud Computing and Edge Computing Paradigms. <i>IEEE Journal on Selected Areas in Communications</i> , <b>2021</b> , 39, 756-772            | 14.2 | 41 |
| 265 | . <i>IEEE Internet of Things Journal</i> , <b>2021</b> , 8, 4373-4388   | 10.7 | 19 |
| 264 | Ergodic Rate Analysis and IRS Configuration for Multi-IRS Dual-Hop DF Relaying Systems. <i>IEEE Communications Letters</i> , <b>2021</b> , 1-1  | 3.8  | 2  |
| 263 | Embedding Model Based Fast Meta Learning for Downlink Beamforming Adaptation. <i>IEEE Transactions on Wireless Communications</i> , <b>2021</b> , 1-1   | 9.6  | 3  |
| 262 | Multi-Agent Reinforcement Learning-Based Buffer-Aided Relay Selection in IRS-Assisted Secure Cooperative Networks. <i>IEEE Transactions on Information Forensics and Security</i> , <b>2021</b> , 16, 4101-4112 | 8    | 14 |
| 261 | Hybrid Beamforming Design and Resource Allocation for UAV-aided Wireless-Powered Mobile Edge Computing Networks with NOMA. <i>IEEE Journal on Selected Areas in Communications</i> , <b>2021</b> , 1-1          | 14.2 | 16 |
| 260 | Drone Mobile Networks: Performance Analysis Under 3D Tractable Mobility Models. <i>IEEE Access</i> , <b>2021</b> , 9, 90555-90567   | 3.5  | 0  |
| 259 | Delay-limited Computation Offloading for MEC-assisted Mobile Blockchain Networks. <i>IEEE Transactions on Communications</i> , <b>2021</b> , 1-1  | 6.9  | 3  |
| 258 | . <i>IEEE Access</i> , <b>2021</b> , 9, 30347-30358   | 3.5  | 1  |
| 257 | Hybrid Evolutionary-based Sparse Channel Estimation for IRS-assisted mmWave MIMO Systems. <i>IEEE Transactions on Wireless Communications</i> , <b>2021</b> , 1-1   | 9.6  | 9  |
| 256 | Learning to Construct Nested Polar Codes: An Attention-Based Set-to-Element Model. <i>IEEE Communications Letters</i> , <b>2021</b> , 1-1   | 3.8  | 0  |
| 255 | Covert Communication in UAV-Assisted Air-Ground Networks. <i>IEEE Wireless Communications</i> , <b>2021</b> , 28, 190-197   | 13.4 | 14 |
| 254 | . <i>IEEE Transactions on Vehicular Technology</i> , <b>2021</b> , 70, 8964-8977  | 6.8  | 6  |
| 253 | Multi-Objective Optimization for UAV-Assisted Wireless Powered IoT Networks Based on Extended DDPG Algorithm. <i>IEEE Transactions on Communications</i> , <b>2021</b> , 69, 6361-6374                          | 6.9  | 13 |
| 252 | Weighted Sum Secrecy Rate Maximization Using Intelligent Reflecting Surface. <i>IEEE Transactions on Communications</i> , <b>2021</b> , 69, 6170-6184   | 6.9  | 22 |

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|-----|--|------|-----|
| 251 | On the Secrecy Performance of Interference Exploitation with PSK: A non-Gaussian Signaling Analysis. <i>IEEE Transactions on Wireless Communications</i> , <b>2021</b> , 1-1   | 9.6  | 1   |
| 250 | Multiple UAV-Borne IRS-Aided Millimeter Wave Multicast Communications: A Joint Optimization Framework. <i>IEEE Communications Letters</i> , <b>2021</b> , 1-1  | 3.8  | 5   |
| 249 | Reconfigurable Intelligent Surface Based Orbital Angular Momentum: Architecture, Opportunities, and Challenges. <i>IEEE Wireless Communications</i> , <b>2021</b> , 28, 132-137  | 13.4 | 2   |
| 248 | . <i>IEEE Transactions on Communications</i> , <b>2020</b> , 68, 5834-5848   | 6.9  | 18  |
| 247 | Subspace methods for self-calibration of ULAs with unknown mutual coupling: A false-peak analysis. <i>Signal Processing</i> , <b>2020</b> , 174, 107626  | 4.4  | 2   |
| 246 | On LOS Contribution to Ultra-Dense Network. <i>IEEE Access</i> , <b>2020</b> , 8, 100288-100297  | 3.5  |     |
| 245 | Stochastic Geometry Analysis of Large Intelligent Surface-Assisted Millimeter Wave Networks. <i>IEEE Journal on Selected Areas in Communications</i> , <b>2020</b> , 38, 1749-1762   | 14.2 | 20  |
| 244 | Deep Learning Enabled Optimization of Downlink Beamforming Under Per-Antenna Power Constraints: Algorithms and Experimental Demonstration. <i>IEEE Transactions on Wireless Communications</i> , <b>2020</b> , 19, 3738-3752     | 9.6  | 6   |
| 243 | A Reinforcement Learning-Based User-Assisted Caching Strategy for Dynamic Content Library in Small Cell Networks. <i>IEEE Transactions on Communications</i> , <b>2020</b> , 68, 3627-3639                                       | 6.9  | 3   |
| 242 | Spectrum and Energy Efficiency in Dynamic UAV-Powered Millimeter Wave Networks. <i>IEEE Communications Letters</i> , <b>2020</b> , 24, 2290-2294   | 3.8  | 5   |
| 241 | UAV-Enabled SWIPT in IoT Networks for Emergency Communications. <i>IEEE Wireless Communications</i> , <b>2020</b> , 27, 140-147  | 13.4 | 34  |
| 240 | . <i>IEEE Journal on Selected Areas in Communications</i> , <b>2020</b> , 38, 2683-2699  | 14.2 | 101 |
| 239 | Joint 3D Trajectory Design and Time Allocation for UAV-Enabled Wireless Power Transfer Networks. <i>IEEE Transactions on Vehicular Technology</i> , <b>2020</b> , 69, 9265-9278  | 6.8  | 26  |
| 238 | Robust Localization for Mixed LOS/NLOS Environments With Anchor Uncertainties. <i>IEEE Transactions on Communications</i> , <b>2020</b> , 68, 4507-4521  | 6.9  | 6   |
| 237 | Ultra Dense Edge Caching Networks With Arbitrary User Spatial Density. <i>IEEE Transactions on Wireless Communications</i> , <b>2020</b> , 19, 4363-4377   | 9.6  | 2   |
| 236 | Editorial A Message From the New Editor-in-Chief. <i>IEEE Wireless Communications Letters</i> , <b>2020</b> , 9, 1-1   | 5.9  | 1   |
| 235 | Joint Power Allocation and Splitting Control in SWIPT-Aided Multi-carrier NOMA System. <i>Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering</i> , <b>2020</b> , 86-100 | 0.2  |     |
| 234 | NOMA-based UAV-aided networks for emergency communications. <i>China Communications</i> , <b>2020</b> , 17, 54-66  | 3    | 13  |

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|-----|---|------|----|
| 233 | System-Level Performance Analysis in 3D Drone Mobile Networks. <i>Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering</i> , <b>2020</b> , 311-322 | 0.2  | 1  |
| 232 | Trajectory Planning of UAV in Wireless Powered IoT System Based on Deep Reinforcement Learning <b>2020</b> ,  |      | 3  |
| 231 | Beam-steering Surface Wave Fluid Antennas for MIMO Applications <b>2020</b> ,   |      | 6  |
| 230 | Fluid Antenna System for 6G: When Bruce Lee Inspires Wireless Communications. <i>Electronics Letters</i> , <b>2020</b> , 56, 1288-1290  | 1.1  | 6  |
| 229 | Edge and Central Cloud Computing: A Perfect Pairing for High Energy Efficiency and Low-Latency. <i>IEEE Transactions on Wireless Communications</i> , <b>2020</b> , 19, 1070-1083                         | 9.6  | 21 |
| 228 | Multi-Cell Interference Exploitation: Enhancing the Power Efficiency in Cell Coordination. <i>IEEE Transactions on Wireless Communications</i> , <b>2020</b> , 19, 547-562                                | 9.6  | 10 |
| 227 | Unary Coding Controlled Simultaneous Wireless Information and Power Transfer. <i>IEEE Transactions on Wireless Communications</i> , <b>2020</b> , 19, 637-649   | 9.6  | 9  |
| 226 | Minimum Throughput Maximization for Multi-UAV Enabled WPCN: A Deep Reinforcement Learning Method. <i>IEEE Access</i> , <b>2020</b> , 8, 9124-9132   | 3.5  | 26 |
| 225 | FFDNet-Based Channel Estimation for Massive MIMO Visible Light Communication Systems. <i>IEEE Wireless Communications Letters</i> , <b>2020</b> , 9, 340-343  | 5.9  | 11 |
| 224 | Energy Minimization in D2D-Assisted Cache-Enabled Internet of Things: A Deep Reinforcement Learning Approach. <i>IEEE Transactions on Industrial Informatics</i> , <b>2020</b> , 16, 5412-5423            | 11.9 | 21 |
| 223 | Signal Separation and Tracking Algorithm for Multi-Person Vital Signs by Using Doppler Radar. <i>IEEE Transactions on Biomedical Circuits and Systems</i> , <b>2020</b> , 14, 1346-1361                   | 5.1  | 6  |
| 222 | Performance Limits of Fluid Antenna Systems. <i>IEEE Communications Letters</i> , <b>2020</b> , 24, 2469-2472   | 3.8  | 7  |
| 221 | Large System Analysis of Downlink MISO-NOMA System via Regularized Zero-Forcing Precoding With Imperfect CSIT. <i>IEEE Communications Letters</i> , <b>2020</b> , 24, 2454-2458                           | 3.8  | 4  |
| 220 | Receive Spatial Modulation Aided Simultaneous Wireless Information and Power Transfer With Finite Alphabet. <i>IEEE Transactions on Wireless Communications</i> , <b>2020</b> , 19, 8039-8053             | 9.6  | 2  |
| 219 | Wireless-Powered Edge Computing With Cooperative UAV: Task, Time Scheduling and Trajectory Design. <i>IEEE Transactions on Wireless Communications</i> , <b>2020</b> , 19, 8083-8098                      | 9.6  | 21 |
| 218 | Robust Physical Layer Security for Power Domain Non-Orthogonal Multiple Access-Based HetNets and HUDNs: SIC Avoidance at Eavesdroppers. <i>IEEE Access</i> , <b>2019</b> , 7, 107879-107896               | 3.5  | 7  |
| 217 | . <i>IEEE Transactions on Communications</i> , <b>2019</b> , 67, 6085-6098  | 6.9  | 12 |
| 216 | Wireless-Powered Mobile Edge Computing with Cooperated UAV <b>2019</b> ,  |      | 2  |

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| 215 | Asymmetric Physical Layer Encryption for Wireless Communications. <i>IEEE Access</i> , <b>2019</b> , 7, 46959-46967   | 3.5  | 7   |
| 214 | Programmable metasurface-based RF chain-free 8PSK wireless transmitter. <i>Electronics Letters</i> , <b>2019</b> , 55, 417-420  | 1.1  | 81  |
| 213 | The Future of Wireless?. <i>Electronics Letters</i> , <b>2019</b> , 55, 360-361   | 1.1  | 11  |
| 212 | Efficient Downlink Channel Reconstruction for FDD Multi-Antenna Systems. <i>IEEE Transactions on Wireless Communications</i> , <b>2019</b> , 18, 3161-3176              | 9.6  | 41  |
| 211 | Blockchain-Empowered Decentralized Storage in Air-to-Ground Industrial Networks. <i>IEEE Transactions on Industrial Informatics</i> , <b>2019</b> , 15, 3593-3601       | 11.9 | 18  |
| 210 | Full-Duplex Amplify-and-Forward Relay Selection in Cooperative Cognitive Radio Networks. <i>IEEE Transactions on Vehicular Technology</i> , <b>2019</b> , 68, 6142-6146 | 6.8  | 15  |
| 209 | FDD Massive MIMO Based on Efficient Downlink Channel Reconstruction. <i>IEEE Transactions on Communications</i> , <b>2019</b> , 67, 4020-4034                           | 6.9  | 23  |
| 208 | Energy Efficiency Optimization for NOMA With SWIPT. <i>IEEE Journal on Selected Topics in Signal Processing</i> , <b>2019</b> , 13, 452-466                             | 7.5  | 93  |
| 207 | Performance Analysis of AF Relaying With Selection Combining in Nakagami- $m$ Fading. <i>IEEE Systems Journal</i> , <b>2019</b> , 13, 2375-2385                         | 4.3  | 2   |
| 206 | Green Communication for NOMA-Based CRAN. <i>IEEE Internet of Things Journal</i> , <b>2019</b> , 6, 666-678  | 10.7 | 33  |
| 205 | UAV-Assisted Relaying and Edge Computing: Scheduling and Trajectory Optimization. <i>IEEE Transactions on Wireless Communications</i> , <b>2019</b> , 18, 4738-4752     | 9.6  | 128 |
| 204 | . <i>IEEE Access</i> , <b>2019</b> , 7, 95058-95064   | 3.5  | 16  |
| 203 | Optimization of Uplink CSI Training for Full-Duplex Multiuser MIMO Systems. <i>IEEE Communications Letters</i> , <b>2019</b> , 23, 2325-2329                            | 3.8  | 1   |
| 202 | UAV-Assisted Emergency Networks in Disasters. <i>IEEE Wireless Communications</i> , <b>2019</b> , 26, 45-51   | 13.4 | 250 |
| 201 | Task and Bandwidth Allocation for UAV-Assisted Mobile Edge Computing with Trajectory Design <b>2019</b> ,   |      | 4   |
| 200 | CNN-based CSI acquisition for FDD massive MIMO with noisy feedback. <i>Electronics Letters</i> , <b>2019</b> , 55, 963-965  |      | 3   |
| 199 | Secure SWIPT by Exploiting Constructive Interference and Artificial Noise. <i>IEEE Transactions on Communications</i> , <b>2019</b> , 67, 1326-1340                     | 6.9  | 20  |
| 198 | Cognitive Radio Made Practical: Forward-Lookingness and Calculated Competition. <i>IEEE Access</i> , <b>2019</b> , 7, 2529-2548   | 3.5  | 2   |

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|-----|---|------|-----|
| 197 | Secure Full-Duplex Two-Way Relaying for SWIPT. <i>IEEE Wireless Communications Letters</i> , <b>2018</b> , 7, 336-339   | 5.9  | 9   |
| 196 | Sensitivity and Asymptotic Analysis of Inter-Cell Interference Against Pricing for Multi-Antenna Base Stations. <i>IEEE Transactions on Communications</i> , <b>2018</b> , 66, 1758-1771    | 6.9  | 0   |
| 195 | Full-Duplex Small-Cell Networks: A Physical-Layer Security Perspective. <i>IEEE Transactions on Communications</i> , <b>2018</b> , 66, 3006-3021  | 6.9  | 9   |
| 194 | A Survey of Physical Layer Security Techniques for 5G Wireless Networks and Challenges Ahead. <i>IEEE Journal on Selected Areas in Communications</i> , <b>2018</b> , 36, 679-695           | 14.2 | 317 |
| 193 | Optimal Power Allocation by Imperfect Hardware Analysis in Untrusted Relaying Networks. <i>IEEE Transactions on Wireless Communications</i> , <b>2018</b> , 17, 4302-4314                   | 9.6  | 26  |
| 192 | Wireless Powered Cooperation-Assisted Mobile Edge Computing. <i>IEEE Transactions on Wireless Communications</i> , <b>2018</b> , 17, 2375-2388  | 9.6  | 169 |
| 191 | Content Placement in Cache-Enabled Sub-6 GHz and Millimeter-Wave Multi-Antenna Dense Small Cell Networks. <i>IEEE Transactions on Wireless Communications</i> , <b>2018</b> , 17, 2843-2856 | 9.6  | 31  |
| 190 | Secrecy Energy Efficiency in Wireless Powered Heterogeneous Networks: A Distributed ADMM Approach. <i>IEEE Access</i> , <b>2018</b> , 6, 20609-20624  | 3.5  | 21  |
| 189 | State of the Art, Taxonomy, and Open Issues on Cognitive Radio Networks with NOMA. <i>IEEE Wireless Communications</i> , <b>2018</b> , 25, 100-108  | 13.4 | 120 |
| 188 | Performance Analysis of Cache-Enabled Millimeter Wave Small Cell Networks. <i>IEEE Transactions on Vehicular Technology</i> , <b>2018</b> , 67, 6695-6699                                   | 6.8  | 11  |
| 187 | DFT-Based Hybrid Beamforming Multiuser Systems: Rate Analysis and Beam Selection. <i>IEEE Journal on Selected Topics in Signal Processing</i> , <b>2018</b> , 12, 514-528                   | 7.5  | 28  |
| 186 | Constructive Interference Based Secure Precoding: A New Dimension in Physical Layer Security. <i>IEEE Transactions on Information Forensics and Security</i> , <b>2018</b> , 13, 2256-2268  | 8    | 49  |
| 185 | Energy-Efficient Heterogeneous Cellular Networks With Spectrum Underlay and Overlay Access. <i>IEEE Transactions on Vehicular Technology</i> , <b>2018</b> , 67, 2439-2453                  | 6.8  | 24  |
| 184 | Energy Efficiency Optimization With SWIPT in MIMO Broadcast Channels for Internet of Things. <i>IEEE Internet of Things Journal</i> , <b>2018</b> , 5, 2605-2619                            | 10.7 | 68  |
| 183 | Robust Chance-Constrained Secure Transmission for Cognitive Satellite-Terrestrial Networks. <i>IEEE Transactions on Vehicular Technology</i> , <b>2018</b> , 67, 4208-4219                  | 6.8  | 87  |
| 182 | . <i>IEEE Transactions on Vehicular Technology</i> , <b>2018</b> , 67, 8451-8465  | 6.8  | 40  |
| 181 | Optimization for Maximizing Sum Secrecy Rate in SWIPT-Enabled NOMA Systems. <i>IEEE Access</i> , <b>2018</b> , 6, 43440-43449   | 3.5  | 20  |
| 180 | Edge Caching in Dense Heterogeneous Cellular Networks With Massive MIMO-Aided Self-Backhaul. <i>IEEE Transactions on Wireless Communications</i> , <b>2018</b> , 17, 6360-6372              | 9.6  | 18  |



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|-----|---|------|----|
| 179 | Guest Editorial Physical Layer Security for 5G Wireless Networks, Part I. <i>IEEE Journal on Selected Areas in Communications</i> , <b>2018</b> , 36, 675-678             | 14.2 | 0  |
| 178 | . <i>IEEE Transactions on Communications</i> , <b>2018</b> , 66, 6368-6383  | 6.9  | 29 |
| 177 | Coverage Analysis for Millimeter Wave Cellular Networks With Imperfect Beam Alignment. <i>IEEE Transactions on Vehicular Technology</i> , <b>2018</b> , 67, 8302-8314     | 6.8  | 33 |
| 176 | Antenna Allocation and Pricing in Virtualized Massive MIMO Networks via Stackelberg Game. <i>IEEE Transactions on Communications</i> , <b>2018</b> , 66, 5220-5234        | 6.9  | 8  |
| 175 | A New Look at Physical Layer Security, Caching, and Wireless Energy Harvesting for Heterogeneous Ultra-Dense Networks <b>2018</b> , 56, 49-55                             |      | 47 |
| 174 | Energy-Efficient Resource Allocation in SWIPT Enabled NOMA Systems <b>2018</b> ,  |      | 2  |
| 173 | Guest Editorial Physical Layer Security for 5G Wireless Networks, Part II. <i>IEEE Journal on Selected Areas in Communications</i> , <b>2018</b> , 36, 1363-1366          | 14.2 | 1  |
| 172 | Power Minimization for Cooperative Wireless Powered Mobile Edge Computing Systems <b>2018</b> ,   |      | 2  |
| 171 | Full-Duplex Cloud Radio Access Network: Stochastic Design and Analysis. <i>IEEE Transactions on Wireless Communications</i> , <b>2018</b> , 17, 7190-7207                 | 9.6  | 11 |
| 170 | Robust AN-Aided Secure Beamforming and Power Splitting in Wireless-Powered AF Relay Networks. <i>IEEE Systems Journal</i> , <b>2018</b> , 1-4                             | 4.3  | 4  |
| 169 | A Data-Aided Channel Estimation Scheme for Decoupled Systems in Heterogeneous Networks. <i>IEEE Transactions on Wireless Communications</i> , <b>2018</b> , 17, 4987-5000 | 9.6  | 6  |
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| 167 | . <i>IEEE Transactions on Vehicular Technology</i> , <b>2018</b> , 67, 8324-8335  | 6.8  | 14 |
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| 165 | Self-Interference in Full-Duplex Multi-User MIMO Channels. <i>IEEE Communications Letters</i> , <b>2017</b> , 21, 841-844   | 9.4  | 20 |
| 164 | Efficient direction of arrival estimation based on sparse covariance fitting criterion with modeling mismatch. <i>Signal Processing</i> , <b>2017</b> , 137, 264-273      | 4.4  | 8  |
| 163 | Optimizing DF Cognitive Radio Networks With Full-Duplex-Enabled Energy Access Points. <i>IEEE Transactions on Wireless Communications</i> , <b>2017</b> , 16, 4683-4697   | 9.6  | 29 |
| 162 | SE and EE of Uplink D2D Underlaid Massive MIMO Cellular Networks with Power Control <b>2017</b> ,   |      | 4  |

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| 161 | Stochastic Geometric Analysis of Energy-Efficient Dense Cellular Networks. <i>IEEE Access</i> , <b>2017</b> , 5, 455-469   | 3.5  | 12  |
| 160 | Joint Antenna Selection and Spatial Switching for Energy Efficient MIMO SWIPT System. <i>IEEE Transactions on Wireless Communications</i> , <b>2017</b> , 16, 4754-4769                          | 9.6  | 42  |
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| 157 | Secure Communications in Millimeter Wave Ad Hoc Networks. <i>IEEE Transactions on Wireless Communications</i> , <b>2017</b> , 16, 3205-3217  | 9.6  | 102 |
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| 154 | Performance Analysis and Optimization of Cache-Enabled Small Cell Networks <b>2017</b> ,   |      | 1   |
| 153 | Multi-pair massive MIMO relay networks: power scaling laws and user scheduling strategy. <i>IET Communications</i> , <b>2017</b> , 11, 1619-1625   | 1.3  | 2   |
| 152 | Constructive interference based secure precoding <b>2017</b> ,   |      | 7   |
| 151 | Massive MIMO-Enabled Full-Duplex Cellular Networks. <i>IEEE Transactions on Communications</i> , <b>2017</b> , 65, 4734-4750   | 6.9  | 44  |
| 150 | Energy coverage in wireless powered sub-6 GHz and millimeter wave dense cellular networks <b>2017</b> ,  |      | 2   |
| 149 | User-Centric Networking for Dense C-RANs: High-SNR Capacity Analysis and Antenna Selection. <i>IEEE Transactions on Communications</i> , <b>2017</b> , 65, 5067-5080                             | 6.9  | 24  |
| 148 | Coding, Multicast, and Cooperation for Cache- Enabled Heterogeneous Small Cell Networks. <i>IEEE Transactions on Wireless Communications</i> , <b>2017</b> , 16, 6838-6853                       | 9.6  | 33  |
| 147 | Spectral and Energy Efficiency of Uplink D2D Underlaid Massive MIMO Cellular Networks. <i>IEEE Transactions on Communications</i> , <b>2017</b> , 65, 3780-3793                                  | 6.9  | 34  |
| 146 | Full-duplex versus half-duplex large scale antenna system <b>2017</b> ,  |      | 3   |
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| 144 | Probabilistically Robust SWIPT for Secrecy MISOME Systems. <i>IEEE Transactions on Information Forensics and Security</i> , <b>2017</b> , 12, 211-226  | 8    | 39  |

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| 143 | Optimizing Cache Placement for Heterogeneous Small Cell Networks. <i>IEEE Communications Letters</i> , <b>2017</b> , 21, 120-123   | 3.8  | 35  |
| 142 | A Low-Cost Fluid Switch for Frequency-Reconfigurable Vivaldi Antenna. <i>IEEE Antennas and Wireless Propagation Letters</i> , <b>2017</b> , 16, 3151-3154                                      | 3.8  | 26  |
| 141 | Physical layer security in full-duplex cellular networks <b>2017</b> ,   |      | 3   |
| 140 | MDS Coded Cooperative Caching for Heterogeneous Small Cell Networks <b>2017</b> ,  |      | 1   |
| 139 | SWIPT in MISO full-duplex systems. <i>Journal of Communications and Networks</i> , <b>2017</b> , 19, 470-480   | 4.1  | 2   |
| 138 | Capacity Distribution for Interference Alignment With CSI Errors and Its Applications. <i>IEEE Transactions on Wireless Communications</i> , <b>2016</b> , 15, 676-685                         | 9.6  | 2   |
| 137 | Low-Complexity Precoding Design for Massive Multiuser MIMO Systems Using Approximate Message Passing. <i>IEEE Transactions on Vehicular Technology</i> , <b>2016</b> , 65, 5707-5714           | 6.8  | 23  |
| 136 | . <i>IEEE Transactions on Vehicular Technology</i> , <b>2016</b> , 65, 2182-2195   | 6.8  | 140 |
| 135 | . <i>IEEE Transactions on Communications</i> , <b>2016</b> , 64, 4181-4195   | 6.9  | 36  |
| 134 | . <i>IEEE Transactions on Wireless Communications</i> , <b>2016</b> , 15, 7971-7984  | 9.6  | 57  |
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| 132 | Secrecy and Energy Efficiency in Massive MIMO Aided Heterogeneous C-RAN: A New Look at Interference. <i>IEEE Journal on Selected Topics in Signal Processing</i> , <b>2016</b> , 10, 1375-1389 | 7.5  | 31  |
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| 129 | . <i>IEEE Transactions on Communications</i> , <b>2016</b> , 64, 3104-3118   | 6.9  | 20  |
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| 126 | . <i>IEEE Communications Surveys and Tutorials</i> , <b>2016</b> , 18, 1018-1044   | 37.1 | 352 |

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| 125 | Location Identification of Power Line Outages Using PMU Measurements With Bad Data. <i>IEEE Transactions on Power Systems</i> , <b>2016</b> , 31, 3624-3635   | 7    | 30  |
| 124 | Geometric Power Control for Time-Switching Energy-Harvesting Two-User Interference Channel. <i>IEEE Transactions on Vehicular Technology</i> , <b>2016</b> , 65, 9759-9772                            | 6.8  | 10  |
| 123 | Robust Power-Splitting SWIPT Beamforming for Broadcast Channels. <i>IEEE Communications Letters</i> , <b>2016</b> , 20, 181-184   | 3.8  | 33  |
| 122 | Large System Secrecy Rate Analysis for SWIPT MIMO Wiretap Channels. <i>IEEE Transactions on Information Forensics and Security</i> , <b>2016</b> , 11, 74-85  | 8    | 66  |
| 121 | Throughput and Energy Efficiency for S-FFR in Massive MIMO Enabled Heterogeneous C-RAN <b>2016</b> ,  |      | 3   |
| 120 | Physical Layer Security in Large-Scale Millimeter Wave Ad Hoc Networks <b>2016</b> ,  |      | 9   |
| 119 | Design and Analysis of Full-Duplex Massive MIMO Cellular Networks <b>2016</b> ,   |      | 6   |
| 118 | Two-way beamforming optimization for full-duplex SWIPT systems <b>2016</b> ,  |      | 7   |
| 117 | Coverage probability of cellular networks using interference alignment under imperfect CSI. <i>Digital Communications and Networks</i> , <b>2016</b> , 2, 162-166                                     | 5.9  | 2   |
| 116 | Optimal harvest-use-store design for delay-constrained energy harvesting wireless communications. <i>Journal of Communications and Networks</i> , <b>2016</b> , 18, 902-912                           | 4.1  | 7   |
| 115 | HEVA: cooperative localization using a combined non-parametric belief propagation and variational message passing approach. <i>Journal of Communications and Networks</i> , <b>2016</b> , 18, 397-410 | 4.1  | 7   |
| 114 | Interference mitigation scheme by antenna selection in device-to-device communication underlying cellular networks. <i>Journal of Communications and Networks</i> , <b>2016</b> , 18, 429-438         | 4.1  | 2   |
| 113 | Wireless information and power transfer in full-duplex communication systems <b>2016</b> ,  |      | 9   |
| 112 | Ergodic Rate Analysis for Multipair Massive MIMO Two-Way Relay Networks. <i>IEEE Transactions on Wireless Communications</i> , <b>2015</b> , 14, 1480-1491  | 9.6  | 116 |
| 111 | Informed Scheduling by Stochastic Residual Belief Propagation in Distributed Wireless Networks. <i>IEEE Wireless Communications Letters</i> , <b>2015</b> , 4, 90-93                                  | 5.9  | 6   |
| 110 | Masked Beamforming in the Presence of Energy-Harvesting Eavesdroppers. <i>IEEE Transactions on Information Forensics and Security</i> , <b>2015</b> , 10, 40-54                                       | 8    | 67  |
| 109 | Joint Resource Allocation for Device-to-Device Communications Underlying Uplink MIMO Cellular Networks. <i>IEEE Journal on Selected Areas in Communications</i> , <b>2015</b> , 33, 41-54             | 14.2 | 37  |
| 108 | To Harvest and Jam: A Paradigm of Self-Sustaining Friendly Jammers for Secure AF Relaying. <i>IEEE Transactions on Signal Processing</i> , <b>2015</b> , 63, 6616-6631                                | 4.8  | 70  |

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| 106 | Statistical Eigenmode Transmission for the MU-MIMO Downlink in Rician Fading. <i>IEEE Transactions on Wireless Communications</i> , <b>2015</b> , 14, 6650-6663       | 9.6 | 32  |
| 105 | Max-min energy based robust secure beamforming for SWIPT <b>2015</b> ,  |     | 7   |
| 104 | Joint CHANNEL-AND-dATA estimation for large-MIMO systems with low-precision ADCs <b>2015</b> ,  |     | 9   |
| 103 | Admission Control for Machine-to-Machine Communications with Traffic Load Cooperation. <i>Wireless Personal Communications</i> , <b>2015</b> , 84, 3127-3142          | 1.9 |     |
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| 99  | Downlink massive distributed antenna systems scheduling. <i>IET Communications</i> , <b>2015</b> , 9, 1006-1016   | 1.3 | 39  |
| 98  | Secrecy Performance Analysis for TAS-MRC System With Imperfect Feedback. <i>IEEE Transactions on Information Forensics and Security</i> , <b>2015</b> , 10, 1617-1629 | 8   | 32  |
| 97  | Spectrum and Energy Efficiency in Massive MIMO Enabled HetNets: A Stochastic Geometry Approach. <i>IEEE Communications Letters</i> , <b>2015</b> , 19, 2294-2297      | 3.8 | 35  |
| 96  | Rate analysis and pilot reuse design for dense small cell networks <b>2015</b> ,  |     | 3   |
| 95  | Safeguarding massive MIMO aided hetnets using physical layer security <b>2015</b> ,   |     | 26  |
| 94  | Channel Estimation for Massive MIMO Using Gaussian-Mixture Bayesian Learning. <i>IEEE Transactions on Wireless Communications</i> , <b>2015</b> , 14, 1356-1368       | 9.6 | 184 |
| 93  | Outage probability of device-to-device communication assisted by one-way amplify-and-forward relaying. <i>IET Communications</i> , <b>2015</b> , 9, 271-282           | 1.3 | 16  |
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| 90  | Performance of Rayleigh-Product MIMO Channels with Linear Receivers. <i>IEEE Transactions on Wireless Communications</i> , <b>2014</b> , 13, 2270-2281                | 9.6 | 16  |

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| 88 | Relay Selection and Discrete Power Control for Cognitive Relay Networks via Potential Game. <i>IEEE Transactions on Signal Processing</i> , <b>2014</b> , 62, 5411-5424  | 4.8  | 38  |
| 87 | Improved Constant Envelope Multiuser Precoding for Massive MIMO Systems. <i>IEEE Communications Letters</i> , <b>2014</b> , 18, 1311-1314  | 3.8  | 41  |
| 86 | Minimax robust jamming techniques based on signal-to-interference-plus-noise ratio and mutual information criteria. <i>IET Communications</i> , <b>2014</b> , 8, 1859-1867   | 1.3  | 18  |
| 85 | Power Scaling of Uplink Massive MIMO Systems With Arbitrary-Rank Channel Means. <i>IEEE Journal on Selected Topics in Signal Processing</i> , <b>2014</b> , 8, 966-981   | 7.5  | 323 |
| 84 | On impact of relay placement for energy-efficient cooperative networks. <i>IET Communications</i> , <b>2014</b> , 8, 140-151   | 1.3  | 3   |
| 83 | SWIPT in MISO Multicasting Systems. <i>IEEE Wireless Communications Letters</i> , <b>2014</b> , 3, 277-280   | 5.9  | 113 |
| 82 | Capacity Analysis of Interference Alignment With Bounded CSI Uncertainty. <i>IEEE Wireless Communications Letters</i> , <b>2014</b> , 3, 505-508   | 5.9  | 11  |
| 81 | QoS-based multicast beamforming for SWIPT <b>2014</b> ,  |      | 9   |
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| 79 | Outage performances for device-to-device communication assisted by two-way amplify-and-forward relay protocol <b>2014</b> ,  |      | 6   |
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| 76 | Adaptive joint maximum-likelihood detection and minimum-mean-square error with successive interference canceler over spatially correlated multiple-input multiple-output channels. <i>Wireless Communications and Mobile Computing</i> , <b>2013</b> , 13, 1192-1204 | 1.9  | 3   |
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| 66 | Cooperative Cognitive Networks: Optimal, Distributed and Low-Complexity Algorithms. <i>IEEE Transactions on Signal Processing</i> , <b>2013</b> , 61, 2778-2790                             | 4.8  | 53 |
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| 64 | Detection of pilot contamination attack using random training and massive MIMO <b>2013</b> ,  |      | 39 |
| 63 | Pareto-optimal power allocation of device-to-device communication with two-way decode-and-forward helping relay <b>2013</b> ,   |      | 2  |
| 62 | Robust Peer-to-Peer Collaborative-Relay Beamforming with Ellipsoidal CSI Uncertainties. <i>IEEE Communications Letters</i> , <b>2012</b> , 16, 442-445                                      | 3.8  | 18 |
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| 57 | Using simple relays to improve physical-layer security <b>2012</b> ,  |      | 11 |
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| 52 | Adaptive Cooperation Switching for Multicell Downlink Using Statistical CSI. <i>IEICE Transactions on Communications</i> , <b>2012</b> , E95-B, 663-667   | 0.5  | 0   |
| 51 | Optimal Cooperative Jamming to Enhance Physical Layer Security Using Relays. <i>IEEE Transactions on Signal Processing</i> , <b>2011</b> , 59, 1317-1322  | 4.8  | 258 |
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| 39 | . <i>IEEE Transactions on Signal Processing</i> , <b>2010</b> , 58, 5331-5339   | 4.8  | 17  |
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| 33 | Near-optimal power allocation for MIMO channels with mean or covariance feedback. <i>IEEE Transactions on Communications</i> , <b>2010</b> , 58, 289-300   | 6.9 | 35  |
| 32 | Dual-hop systems with noisy relay and interference-limited destination. <i>IEEE Transactions on Communications</i> , <b>2010</b> , 58, 764-768   | 6.9 | 157 |
| 31 | Low SNR Capacity for MIMO Rician and Rayleigh-Product Fading Channels with Single Co-channel Interferer and Noise. <i>IEEE Transactions on Communications</i> , <b>2010</b> , 58, 2549-2560                | 6.9 | 13  |
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| 29 | Ergodic Capacity Analysis of Amplify-and-Forward MIMO Dual-Hop Systems. <i>IEEE Transactions on Information Theory</i> , <b>2010</b> , 56, 2204-2224   | 2.8 | 193 |
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| 27 | Power minimization of central wishart MIMO block-fading channels. <i>IEEE Transactions on Communications</i> , <b>2009</b> , 57, 899-905   | 6.9 | 3   |
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| 24 | Capacity Bounds for MIMO Nakagami- $m$ Fading Channels. <i>IEEE Transactions on Signal Processing</i> , <b>2009</b> , 57, 3613-3623  | 4.8 | 64  |
| 23 | Collaborative-Relay Beamforming With Perfect CSI: Optimum and Distributed Implementation. <i>IEEE Signal Processing Letters</i> , <b>2009</b> , 16, 257-260  | 3.2 | 101 |
| 22 | . <i>IEEE Transactions on Signal Processing</i> , <b>2009</b> , 57, 3130-3143  | 4.8 | 75  |
| 21 | Communication with causal CSI and controlled information outage. <i>IEEE Transactions on Wireless Communications</i> , <b>2009</b> , 8, 2221-2229  | 9.6 | 3   |
| 20 | . <i>IEEE Transactions on Signal Processing</i> , <b>2009</b> , 57, 4871-4881  | 4.8 | 188 |
| 19 | Throughput Maximization in Linear Multiuser MIMO-OFDM Downlink Systems. <i>IEEE Transactions on Vehicular Technology</i> , <b>2008</b> , 57, 1993-1998   | 6.8 | 20  |
| 18 | Near-Optimal Power Allocation and Multiuser Scheduling with Outage Capacity Constraints Exploiting Only Channel Statistics. <i>IEEE Transactions on Wireless Communications</i> , <b>2008</b> , 7, 812-818 | 9.6 | 4   |

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| 17 | . <i>IEEE Transactions on Wireless Communications</i> , <b>2008</b> , 7, 3647-3654   | 9.6  | 10  |
| 16 | Transmit Beamforming in Rayleigh Product MIMO Channels: Capacity and Performance Analysis. <i>IEEE Transactions on Signal Processing</i> , <b>2008</b> , 56, 5204-5221   | 4.8  | 43  |
| 15 | Array Gain and Diversity Order of Multiuser MISO Antenna Systems. <i>International Journal of Wireless Information Networks</i> , <b>2008</b> , 15, 82-89  | 1.9  | 20  |
| 14 | Optimizing the Power Allocation for Rayleigh Block-Fading Channels with Outage Capacity Constraints. <i>IEEE Transactions on Wireless Communications</i> , <b>2007</b> , 6, 3163-3169  | 9.6  | 7   |
| 13 | Asymptotic Analysis of Spatially Correlated MIMO Multiple-Access Channels With Arbitrary Signaling Inputs for Joint and Separate Decoding. <i>IEEE Transactions on Information Theory</i> , <b>2007</b> , 53, 252-268                        | 2.8  | 42  |
| 12 | Spatially Correlated MIMO Multiple-Access Systems With Macrodiversity: Asymptotic Analysis Via Statistical Physics. <i>IEEE Transactions on Communications</i> , <b>2007</b> , 55, 477-488   | 6.9  | 12  |
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| 9  | Analysis of pilot-assisted channel estimators for OFDM systems with transmit diversity. <i>IEEE Transactions on Broadcasting</i> , <b>2006</b> , 52, 193-202   | 4.7  | 17  |
| 8  | Maximizing the Sum-Rate and Minimizing the Sum-Power of a Broadcast 2-User 2-Input Multiple-Output Antenna System Using a Generalized Zeroforcing Approach. <i>IEEE Transactions on Wireless Communications</i> , <b>2006</b> , 5, 3406-3412 | 9.6  | 36  |
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