

# Mohamed M Abdallah

## List of Publications by Citations

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146  
papers

1,801  
citations

22  
h-index

34  
g-index

184  
ext. papers

2,408  
ext. citations

4.4  
avg, IF

5.53  
L-index

| #   | Paper  | IF   | Citations |
|-----|--|------|-----------|
| 146 | Energy Efficient Resource Allocation for Mixed RF/VLC Heterogeneous Wireless Networks. <i>IEEE Journal on Selected Areas in Communications</i> , <b>2016</b> , 34, 883-893                         | 14.2 | 124       |
| 145 | Outage Performance of Cooperative Underlay CR-NOMA With Imperfect CSI. <i>IEEE Communications Letters</i> , <b>2019</b> , 23, 176-179  | 3.8  | 63        |
| 144 | Simple statistical channel model for weak temperature-induced turbulence in underwater wireless optical communication systems. <i>Optics Letters</i> , <b>2017</b> , 42, 2455-2458                 | 3    | 61        |
| 143 | . <i>IEEE Transactions on Smart Grid</i> , <b>2015</b> , 6, 1934-1943  | 10.7 | 55        |
| 142 | B-Ride: Ride Sharing With Privacy-Preservation, Trust and Fair Payment Atop Public Blockchain. <i>IEEE Transactions on Network Science and Engineering</i> , <b>2020</b> , 1-1                     | 4.9  | 55        |
| 141 | A Survey on Security and Privacy Issues in Edge-Computing-Assisted Internet of Things. <i>IEEE Internet of Things Journal</i> , <b>2021</b> , 8, 4004-4022   | 10.7 | 49        |
| 140 | Effect of eddy diffusivity ratio on underwater optical scintillation index. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , <b>2017</b> , 34, 1969-1973 | 1.8  | 47        |
| 139 | Transmit Power Optimization for a Hybrid PLC/VLC/RF Communication System. <i>IEEE Transactions on Green Communications and Networking</i> , <b>2018</b> , 2, 234-245                               | 4    | 42        |
| 138 | A survey on energy trading in smart grid <b>2014</b> ,   |      | 42        |
| 137 | Blockchain-based Firmware Update Scheme Tailored for Autonomous Vehicles <b>2019</b> ,   |      | 41        |
| 136 | . <i>IEEE Transactions on Smart Grid</i> , <b>2017</b> , 8, 1075-1084  | 10.7 | 36        |
| 135 | On the Outage of Underlay CR-NOMA Networks With Detect-and-Forward Relaying. <i>IEEE Transactions on Cognitive Communications and Networking</i> , <b>2019</b> , 5, 795-804                        | 6.6  | 35        |
| 134 | Performance Analysis of Single-Photon Avalanche Diode Underwater VLC System Using ARQ. <i>IEEE Photonics Journal</i> , <b>2017</b> , 9, 1-11   | 1.8  | 28        |
| 133 | Single photon avalanche diode (SPAD) VLC system and application to downhole monitoring <b>2014</b> ,   |      | 28        |
| 132 | Multivariate analysis for probabilistic WLAN location determination systems <b>2005</b> ,  |      | 27        |
| 131 | Performance analysis of selective cooperation in underlay cognitive networks over Rayleigh channels <b>2011</b> ,  |      | 25        |
| 130 | Code Design for Flicker Mitigation in Visible Light Communications Using Finite State Machines. <i>IEEE Transactions on Communications</i> , <b>2017</b> , 65, 2091-2100                           | 6.9  | 24        |

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|-----|--|-----|----|
| 129 | Beamforming Algorithms for Information Relaying in Wireless Sensor Networks. <i>IEEE Transactions on Signal Processing</i> , <b>2008</b> , 56, 4772-4784             | 4.8 | 24 |
| 128 | Indoor channel modelling and characterization for visible light communications <b>2014</b> ,   |     | 23 |
| 127 | A performance study of two hop transmission in mixed underlay RF and FSO fading channels <b>2014</b> ,   |     | 23 |
| 126 | Random Subcarrier Allocation in OFDM-Based Cognitive Radio Networks. <i>IEEE Transactions on Signal Processing</i> , <b>2012</b> , 60, 4758-4774                     | 4.8 | 23 |
| 125 | Detecting Sybil Attacks using Proofs of Work and Location in VANETs. <i>IEEE Transactions on Dependable and Secure Computing</i> , <b>2020</b> , 1-1                 | 3.9 | 22 |
| 124 | Ray tracing based channel modeling for visible light communications <b>2014</b> ,  |     | 21 |
| 123 | Coordinated Interference Management for Visible Light Communication Systems. <i>Journal of Optical Communications and Networking</i> , <b>2015</b> , 7, 1098         | 4.1 | 21 |
| 122 | Outage performance analysis of underlay cognitive RF and FSO wireless channels <b>2014</b> ,   |     | 21 |
| 121 | On the Performance of Wireless Powered Cognitive Relay Network With Interference Alignment. <i>IEEE Transactions on Communications</i> , <b>2018</b> , 66, 3825-3836 | 6.9 | 20 |
| 120 | Performance Evaluation of LOS and NLOS Vertical Inhomogeneous Links in Underwater Visible Light Communications. <i>IEEE Access</i> , <b>2018</b> , 6, 22408-22420    | 3.5 | 20 |
| 119 | Achievable Rate-Region of VLC/RF Communications with an Energy Harvesting Relay <b>2017</b> ,  |     | 20 |
| 118 | Secrecy Performance of Decode-and-Forward Based Hybrid RF/VLC Relaying Systems. <i>IEEE Access</i> , <b>2019</b> , 7, 10844-10856                                    | 3.5 | 18 |
| 117 | Beamforming and power allocation for physical-layer security in hybrid RF/VLC wireless networks <b>2017</b> ,  |     | 17 |
| 116 | Best relay selection using SNR and interference quotient for underlay cognitive networks <b>2012</b> ,   |     | 17 |
| 115 | Hybrid radio-visible light downlink performance in RF sensitive indoor environments <b>2014</b> ,  |     | 16 |
| 114 | EPDA: Efficient and Privacy-Preserving Data Collection and Access Control Scheme for Multi-Recipient AMI Networks. <i>IEEE Access</i> , <b>2019</b> , 7, 27829-27845 | 3.5 | 15 |
| 113 | A pricing-based load shifting framework for EV fast charging stations <b>2014</b> ,  |     | 15 |
| 112 | Revisiting active cancellation carriers for shaping the spectrum of OFDM-based Cognitive Radios <b>2009</b> ,  |     | 15 |

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|-----|---|------|----|
| 111 | Outage Performance of Underlay CR-NOMA Networks with Detect-and-Forward Relaying <b>2018</b> ,  |      | 15 |
| 110 | Experimental Evaluation of OFDM-Based Underwater Visible Light Communication System. <i>IEEE Photonics Journal</i> , <b>2018</b> , 10, 1-13   | 1.8  | 15 |
| 109 | Efficient and Privacy-Preserving Ridesharing Organization for Transferable and Non-Transferable Services. <i>IEEE Transactions on Dependable and Secure Computing</i> , <b>2019</b> , 1-1 | 3.9  | 14 |
| 108 | Performance of Cooperative Underlay CR-NOMA Networks over Nakagami-m Channels <b>2018</b> ,   |      | 14 |
| 107 | On the Capacity of Wireless Powered Cognitive Relay Network with Interference Alignment <b>2017</b> ,   |      | 14 |
| 106 | Blockchain Based Trading Platform for Electric Vehicle Charging in Smart Cities. <i>IEEE Open Journal of Intelligent Transportation Systems</i> , <b>2020</b> , 1, 80-92                  | 1.7  | 14 |
| 105 | On the Performance Analysis of WPT-Based Dual-Hop AF Relaying Networks in $\alpha$ - $\mu$ Fading. <i>IEEE Access</i> , <b>2018</b> , 6, 37138-37149                                      | 3.5  | 14 |
| 104 | Optimal planning of fast PEV charging facilities <b>2015</b> ,  |      | 13 |
| 103 | Error performance of wireless powered cognitive relay networks with interference alignment <b>2017</b> ,  |      | 13 |
| 102 | On the Achievable Rate of a Hybrid PLC/VLC/RF Communication System <b>2015</b> ,  |      | 13 |
| 101 | Adaptive Discrete Rate and Power Transmission for Spectrum Sharing Systems. <i>IEEE Transactions on Wireless Communications</i> , <b>2012</b> , 11, 1283-1289                             | 9.6  | 13 |
| 100 | <b>2020</b> ,   |      | 13 |
| 99  | Reconfigurable Antenna-Based Space-Shift Keying for Spectrum Sharing Systems Under Rician Fading. <i>IEEE Transactions on Communications</i> , <b>2016</b> , 64, 3970-3980                | 6.9  | 13 |
| 98  | Future Communication Trends toward Internet of Things Services and Applications. <i>IEEE Wireless Communications</i> , <b>2019</b> , 26, 6-8  | 13.4 | 13 |
| 97  | Joint Beamforming Design and Power Minimization for Friendly Jamming Relaying Hybrid RF/VLC Systems. <i>IEEE Photonics Journal</i> , <b>2019</b> , 11, 1-18                               | 1.8  | 12 |
| 96  | Outage Analysis of Spectrum Sharing Cognitive DF Relay Networks Using Outdated CSI. <i>IEEE Communications Letters</i> , <b>2013</b> , 17, 2272-2275                                      | 3.8  | 12 |
| 95  | Cognitive Relaying in Wireless Sensor Networks: Performance Analysis and Optimization <b>2010</b> ,   |      | 12 |
| 94  | <b>2020</b> ,   |      | 12 |

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|----|--|-----|----|
| 93 | <b>2020,</b>   |     | 12 |
| 92 | Priority-Based and Privacy-Preserving Electric Vehicle Dynamic Charging System With Divisible E-Payment <b>2019</b> , 165-186  |     | 12 |
| 91 | Efficient FPGA Implementation of MIMO Decoder for Mobile WiMAX System <b>2009</b> ,  |     | 11 |
| 90 | Consortium Blockchain-Based Decentralized Stock Exchange Platform. <i>IEEE Access</i> , <b>2020</b> , 8, 123711-123725   | 3.5 | 11 |
| 89 | Privacy-Preserving Blockchain-Based Energy Trading Schemes for Electric Vehicles. <i>IEEE Transactions on Vehicular Technology</i> , <b>2021</b> , 70, 9369-9384                                       | 6.8 | 11 |
| 88 | Power Efficient Downlink Resource Allocation for Hybrid RF/VLC Wireless Networks <b>2017</b> ,   |     | 10 |
| 87 | CDMA underlay network with cognitive interference-minimizing code assignment and semi-blind interference suppression. <i>Wireless Communications and Mobile Computing</i> , <b>2009</b> , 9, 1460-1471 | 1.9 | 10 |
| 86 | On the Impact of PLC Backhauling in Multi-User Hybrid VLC/RF Communication Systems <b>2016</b> ,   |     | 10 |
| 85 | Joint Subcarrier and Antenna State Selection for Cognitive Heterogeneous Networks With Reconfigurable Antennas. <i>IEEE Transactions on Communications</i> , <b>2015</b> , 63, 4015-4025               | 6.9 | 9  |
| 84 | On the Performance of NOMA-Enabled Spectrally and Energy Efficient OFDM (SEE-OFDM) for Indoor Visible Light Communications <b>2018</b> ,   |     | 9  |
| 83 | <b>2015,</b>   |     | 9  |
| 82 | On the benefits of cooperation via power control in OFDM-based visible light communication systems <b>2014</b> ,   |     | 9  |
| 81 | Relay selection in underlay cognitive networks with fixed transmission power nodes. <i>Transactions on Emerging Telecommunications Technologies</i> , <b>2013</b> , 24, 734-747                        | 1.9 | 9  |
| 80 | Power allocation for downlink multi-user SC-FDMA visible light communication systems <b>2015</b> ,   |     | 8  |
| 79 | On Sharing Models Instead of Data using Mimic learning for Smart Health Applications <b>2020</b> ,   |     | 8  |
| 78 | Performance Analysis of Joint Multi-Branch Switched Diversity and Adaptive Modulation Schemes for Spectrum Sharing Systems. <i>IEEE Transactions on Communications</i> , <b>2012</b> , 60, 3609-3619   | 6.9 | 8  |
| 77 | A novel bandwidth and power allocation scheme for power efficient hybrid RF/VLC indoor systems. <i>Physical Communication</i> , <b>2018</b> , 31, 187-195  | 2.2 | 7  |
| 76 | Power allocation for maximizing energy efficiency of mixed RF/VLC wireless networks <b>2015</b> ,  |     | 7  |

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|----|--|------|---|
| 75 | Outage Probability of the EH-Based Full-Duplex AF and DF Relaying Systems in $\alpha$ - $\mu$ Environment <b>2018</b> ,  |      | 7 |
| 74 | Deep Reinforcement Learning Powered IRS-Assisted Downlink NOMA. <i>IEEE Open Journal of the Communications Society</i> , <b>2022</b> , 1-1   | 6.7  | 7 |
| 73 | Local Bitcoin Network Simulator for Performance Evaluation using Lightweight Virtualization <b>2020</b> ,  |      | 6 |
| 72 | Outage Analysis of Cognitive Electric Vehicular Networks Over Mixed RF/VLC Channels. <i>IEEE Transactions on Cognitive Communications and Networking</i> , <b>2020</b> , 6, 1096-1107                              | 6.6  | 6 |
| 71 | Angle-tolerant hybrid plasmonic filters for visible light communications. <i>Applied Optics</i> , <b>2017</b> , 56, C106-C116  |      | 6 |
| 70 | Discrete rate and variable power adaptation for underlay cognitive networks <b>2010</b> ,  |      | 6 |
| 69 | Diversity Order Results for MIMO Optical Wireless Communications. <i>IEEE Wireless Communications Letters</i> , <b>2018</b> , 7, 74-77   | 5.9  | 6 |
| 68 | Secure Backhauling over Adaptive Parallel mmWave/FSO Link <b>2020</b> ,  |      | 6 |
| 67 | Outage of SEE-OFDM VLC-NOMA Networks. <i>IEEE Photonics Technology Letters</i> , <b>2019</b> , 31, 121-124   | 2.2  | 6 |
| 66 | Outage of Cognitive Electric Vehicle Networks Over Mixed RF/VLC Channels With Signal-Dependent Noise and Imperfect CSI. <i>IEEE Transactions on Vehicular Technology</i> , <b>2020</b> , 69, 6828-6832             | 6.8  | 6 |
| 65 | Privacy-Preserving Collection of Power Consumption Data for Enhanced AMI Networks <b>2018</b> ,  |      | 6 |
| 64 | Resource Allocation for Downlink OFDMA in Underwater Visible Light Communications <b>2019</b> ,  |      | 5 |
| 63 | Secrecy Capacity of Hybrid RF/VLC DF Relaying Networks with Jamming <b>2019</b> ,  |      | 5 |
| 62 | On the Feasibility of Interference Alignment in Compounded MIMO Broadcast Channels With Antenna Correlation and Mixed User Classes. <i>IEEE Transactions on Vehicular Technology</i> , <b>2018</b> , 67, 2130-2140 | 6.8  | 5 |
| 61 | Visible Light Channel Modeling for Gas Pipelines. <i>IEEE Photonics Journal</i> , <b>2018</b> , 10, 1-10   | 1.8  | 5 |
| 60 | Secure Sum-Rate-Optimal MIMO Multicasting Over Medium-Voltage NB-PLC Networks. <i>IEEE Transactions on Smart Grid</i> , <b>2018</b> , 9, 2954-2963   | 10.7 | 5 |
| 59 | Planar broad-band and wide-angle hybrid plasmonic IMI filters with induced transmission for visible light applications. <i>Applied Optics</i> , <b>2017</b> , 56, 8751-8758  | 1.7  | 5 |
| 58 | Outage analysis of incremental opportunistic regenerative relaying with outdated CSI under spectrum sharing constraints <b>2014</b> ,  |      | 5 |

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|----|--|-----|---|
| 57 | The impact of location errors on achievable rates in OFDM-based multi-user visible light communication systems <b>2014,</b>  |     | 5 |
| 56 | Modelling of parameters of Rician fading distribution as a function of polarization parameter in reconfigurable antenna <b>2014,</b>                                 |     | 5 |
| 55 | Spectrally Efficient Switched Transmit Diversity for Spectrum Sharing Systems <b>2011,</b>   |     | 5 |
| 54 | Novel Printed Monopole Coupled Loop Antenna. <i>IEEE Antennas and Wireless Propagation Letters,</i> <b>2008,</b> 7, 221-224  | 3.8 | 5 |
| 53 | AI-Based Radio Resource Allocation in Support of the Massive Heterogeneity of 6G Networks <b>2021,</b>   |     | 5 |
| 52 | Federated Mimic Learning for Privacy Preserving Intrusion Detection <b>2020,</b>   |     | 5 |
| 51 | Fine-Grained Data Selection for Improved Energy Efficiency of Federated Edge Learning. <i>IEEE Transactions on Network Science and Engineering,</i> <b>2021,</b> 1-1 | 4.9 | 5 |
| 50 | Malicious Node Detection in Wireless Sensor Network using Swarm Intelligence Optimization <b>2020,</b>   |     | 4 |
| 49 | Reduced outage probability relay selection for underlay cognitive networks <b>2014,</b>  |     | 4 |
| 48 | Energy storage sizing for peak hour utility applications <b>2015,</b>  |     | 4 |
| 47 | <b>2014,</b>   |     | 4 |
| 46 | Time of arrival based location estimation for cooperative relay networks <b>2010,</b>  |     | 4 |
| 45 | Adaptive rate transmission for spectrum sharing system with quantized channel state information <b>2011,</b>   |     | 4 |
| 44 | Cognitive interference-minimizing code assignment for underlay CDMA networks in asynchronous multipath fading channels <b>2009,</b>                                  |     | 4 |
| 43 | <b>2021,</b>   |     | 4 |
| 42 | Outage Performance of Underlay CR-NOMA Networks <b>2018,</b>   |     | 4 |
| 41 | Ergodic Capacity Analysis of Wireless Powered AF Relaying Systems over $\alpha$ - $\mu$ Fading Channels <b>2017,</b>   |     | 3 |
| 40 | <b>2014,</b>   |     | 3 |

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| 39 | On the performance of subcarrier allocation techniques for multiuser OFDM cognitive networks with reconfigurable antennas <b>2014</b> ,   |     | 3 |
| 38 | Joint Switched Transmit Diversity and Adaptive Modulation in Spectrum Sharing Systems <b>2011</b> ,   |     | 3 |
| 37 | Threshold-Based Data Exclusion Approach for Energy-Efficient Federated Edge Learning <b>2021</b> ,  |     | 3 |
| 36 | <b>2018</b> ,   |     | 3 |
| 35 | The Frontiers of Deep Reinforcement Learning for Resource Management in Future Wireless HetNets: Techniques, Challenges, and Research Directions. <i>IEEE Open Journal of the Communications Society</i> , <b>2022</b> , 3, 322-365 | 6.7 | 3 |
| 34 | Performance of Hybrid Cognitive RF/VLC Systems in Vehicle-to-Vehicle Communications <b>2020</b> ,   |     | 2 |
| 33 | A VLC-based system for optical SPR sensing facility <b>2016</b> ,   |     | 2 |
| 32 | Performance analysis of adaptive modulation in underwater visible light communications <b>2017</b> ,  |     | 2 |
| 31 | An RSS based location estimation technique for cognitive relay networks <b>2010</b> ,   |     | 2 |
| 30 | Dual Branch Transmit Switch-and-Stay Diversity for Underlay Cognitive Networks <b>2011</b> ,  |     | 2 |
| 29 | Distributed DRL-based Downlink Power Allocation for Hybrid RF/VLC Networks. <i>IEEE Photonics Journal</i> , <b>2021</b> , 1-1   | 1.8 | 2 |
| 28 | Impact of blue filtering on effective modulation bandwidth and wide-angle operation in white LED-based VLC systems. <i>OSA Continuum</i> , <b>2018</b> , 1, 910   | 1.4 | 2 |
| 27 | Planar asymmetric nano-resonators for highly angle tolerant trans-reflective color filters. <i>OSA Continuum</i> , <b>2019</b> , 2, 890   | 1.4 | 2 |
| 26 | Incentivized and Secure Blockchain-based Firmware Update and Dissemination for Autonomous Vehicles <b>2020</b> , 475-493  |     | 2 |
| 25 | DQN-Based Multi-User Power Allocation for Hybrid RF/VLC Networks <b>2021</b> ,  |     | 2 |
| 24 | On optimal anchor placement for area-based localisation in wireless sensor networks. <i>IET Wireless Sensor Systems</i> , <b>2021</b> , 11, 67-77   | 1.6 | 2 |
| 23 | <b>2015</b> ,   |     | 1 |
| 22 | IDC Interference-Aware Resource Allocation for LTE/WLAN Heterogeneous Networks. <i>IEEE Wireless Communications Letters</i> , <b>2015</b> , 4, 581-584  | 5.9 | 1 |



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|----|---|-----|---|
| 21 | Public Security Surveillance System Using Blockchain Technology and Advanced Image Processing Techniques <b>2020</b> ,  |     | 1 |
| 20 | Visible Light Communications for Energy Efficient Heterogeneous Wireless Networks. <i>Studies in Systems, Decision and Control</i> , <b>2016</b> , 299-317  | 0.8 | 1 |
| 19 | . <i>IEEE Transactions on Vehicular Technology</i> , <b>2014</b> , 63, 4408-4421  | 6.8 | 1 |
| 18 | Power optimization and kth order selective relaying in free space optical networks <b>2013</b> ,  |     | 1 |
| 17 | Joint Switched Multi-Spectrum and Transmit Antenna Diversity for Spectrum Sharing Systems. <i>IEEE Transactions on Wireless Communications</i> , <b>2013</b> , 12, 4827-4839  | 9.6 | 1 |
| 16 | Joint multiuser switched diversity and adaptive modulation schemes for spectrum sharing systems <b>2012</b> ,   |     | 1 |
| 15 | A Study on Inter-Cell Subcarrier Collisions due to Random Access in OFDM-Based Cognitive Radio Networks. <i>IEEE Transactions on Communications</i> , <b>2013</b> , 61, 1695-1707                                       | 6.9 | 1 |
| 14 | <b>2009</b> ,   |     | 1 |
| 13 | Switch and examine transmit diversity for spectrum sharing systems <b>2011</b> ,  |     | 1 |
| 12 | Performance Analysis and Estimation of Call Admission Control Parameters in Wireless Integrated Voice and Data Networks. <i>European Transactions on Telecommunications</i> , <b>2000</b> , 11, 327-343                 |     | 1 |
| 11 | Performance Evaluation of Physical Attacks against E2E Autoencoder over Rayleigh Fading Channel <b>2020</b> ,   |     | 1 |
| 10 | Emotion Recognition for Healthcare Surveillance Systems Using Neural Networks: A Survey <b>2021</b> ,   |     | 1 |
| 9  | Reconfigurable antenna-based space-shift keying for spectrum sharing systems <b>2016</b> ,  |     | 1 |
| 8  | Hierarchical Multi-Agent DRL-Based Framework for Joint Multi-RAT Assignment and Dynamic Resource Allocation in Next-Generation HetNets. <i>IEEE Transactions on Network Science and Engineering</i> , <b>2022</b> , 1-1 | 4.9 | 1 |
| 7  | Security and Privacy Issues in Autonomous Vehicles: A Layer-Based Survey. <i>IEEE Open Journal of the Communications Society</i> , <b>2022</b> , 3, 811-829   | 6.7 | 1 |
| 6  | DRL-Based IRS-Assisted Secure Visible Light Communications. <i>IEEE Photonics Journal</i> , <b>2022</b> , 1-1   | 1.8 | 1 |
| 5  | Performance analysis of switch-based multiuser scheduling schemes with adaptive modulation in spectrum sharing systems. <i>Wireless Communications and Mobile Computing</i> , <b>2015</b> , 15, 2095-2110               | 1.9 |   |
| 4  | Privacy-Preserving Framework for Blockchain-Based Stock Exchange Platform. <i>IEEE Access</i> , <b>2022</b> , 10, 1202-1215   | 3.5 |   |

- 3 Best Relay Selection for DF Underlay Cognitive Networks with Different Modulation Levels. *Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering*, **2015**, 282-294 0.2
- 2 Network Coding versus Replication Based Resilient Techniques to Mitigate Insider Attacks for Smart Metering. *International Journal of Distributed Sensor Networks*, **2015**, 11, 737269 1.7
- 1 DRL-Based Joint RAT Association, Power and Bandwidth Optimization For Future HetNets. *IEEE Wireless Communications Letters*, **2022**, 1-1 5.9