

# Tuncer Baykas

## List of Publications by Year in descending order

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96  
papers

2,051  
citations

759233

12  
h-index

677142

22  
g-index

96  
all docs

96  
docs citations

96  
times ranked

1782  
citing authors

| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 1  | Beam codebook based beamforming protocol for multi-Gbps millimeter-wave WPAN systems. IEEE Journal on Selected Areas in Communications, 2009, 27, 1390-1399.  | 14.0 | 559       |
| 2  | IEEE 802.15.3c: the first IEEE wireless standard for data rates over 1 Gb/s. , 2011, 49, 114-121.   |      | 244       |
| 3  | Developing a standard for TV white space coexistence: technical challenges and solution approaches. IEEE Wireless Communications, 2012, 19, 10-22.  | 9.0  | 166       |
| 4  | IEEE 802.15.7r1 Reference Channel Models for Visible Light Communications. , 2017, 55, 212-217.   |      | 122       |
| 5  | Single carrier transmission for multi-gigabit 60-GHz WPAN systems. IEEE Journal on Selected Areas in Communications, 2009, 27, 1466-1478.   | 14.0 | 80        |
| 6  | Beamforming Codebook Design and Performance Evaluation for 60GHz Wideband WPANs. , 2009, , .  |      | 74        |
| 7  | Cognitive communication in TV white spaces: An overview of regulations, standards, and technology [Accepted From Open Call]. , 2013, 51, 138-145.   |      | 72        |
| 8  | Beam Codebook Based Beamforming Protocol for Multi-Gbps Millimeter-Wave WPAN Systems. , 2009, , .   |      | 59        |
| 9  | Virtual time-slot allocation scheme for throughput enhancement in a millimeter-wave multi-Gbps WPAN system. IEEE Journal on Selected Areas in Communications, 2009, 27, 1379-1389.                                      | 14.0 | 54        |
| 10 | Predicting Path Loss Distribution of an Area From Satellite Images Using Deep Learning. IEEE Access, 2020, 8, 64982-64991.  | 4.2  | 46        |
| 11 | Enabling coexistence of multiple cognitive networks in TV white space. IEEE Wireless Communications, 2011, 18, 32-40.   | 9.0  | 41        |
| 12 | Link Adaptation for MIMO OFDM Visible Light Communication Systems. IEEE Access, 2017, 5, 26006-26014.   | 4.2  | 38        |
| 13 | Path Loss Exponent and Shadowing Factor Prediction From Satellite Images Using Deep Learning. IEEE Access, 2019, 7, 101366-101375.  | 4.2  | 38        |
| 14 | Relay with deflection routing for effective throughput improvement in Gbps millimeter-wave WPAN systems. IEEE Journal on Selected Areas in Communications, 2009, 27, 1453-1465.   | 14.0 | 28        |
| 15 | A Virtual Time-Slot Allocation Throughput Enhancement Scheme with Multiple Modulations for a Multi-Gbps Millimeter-Wave WPAN System. , 2009, , .  |      | 28        |
| 16 | IEEE Standard 802.19.1 for TV white space coexistence. , 2016, 54, 22-26.   |      | 26        |
| 17 | A Multi-Gbps Millimeter-Wave WPAN System Based on STDMA with Heuristic Scheduling. , 2009, , .  |      | 22        |
| 18 | Error performance and throughput evaluation of a multi-Gbps millimeter-wave WPAN system in the presence of adjacent and co-channel interference. IEEE Journal on Selected Areas in Communications, 2009, 27, 1433-1442. | 14.0 | 20        |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 19 | NACRP: A Connectivity Protocol for Star Topology Wireless Sensor Networks. IEEE Wireless Communications Letters, 2016, 5, 120-123.  | 5.0 | 20        |
| 20 | A practical physical-layer security method for precoded OSTBC-based systems. , 2016, , .  |     | 19        |
| 21 | Hardware Impairments on LDPC Coded SC-FDE and OFDM in Multi-Gbps WPAN (IEEE 802.15.3c). , 2008, , .   |     | 18        |
| 22 | Overview of TV White Spaces: Current regulations, standards and coexistence between secondary users. , 2010, , .  |     | 18        |
| 23 | Golay sequence aided channel estimation for millimeter-wave WPAN systems. , 2008, , .   |     | 17        |
| 24 | VLCnet: Deep Learning Based End-to-End Visible Light Communication System. Journal of Lightwave Technology, 2020, 38, 5937-5948.  | 4.6 | 17        |
| 25 | Cross MAC/PHY layer security design using ARQ with MRC and adaptive modulation. , 2016, , .   |     | 15        |
| 26 | Error Performance and Throughput Evaluation of a Multi-Gbps Millimeter-Wave WPAN System in Multipath Environment in the Presence of Adjacent and Co-Channel Interference. , 2009, , . |     | 13        |
| 27 | Performance Evaluation of IEEE 802.19.1 Coexistence System. , 2011, , .   |     | 12        |
| 28 | Optimization of aerial base station location in LAP for disaster situations. , 2015, , .  |     | 9         |
| 29 | Statistical Channel Modeling for Short Range Line-of-Sight Terahertz Communication. , 2019, , .   |     | 9         |
| 30 | Location Aware Vertical Handover in a VLC/WLAN Hybrid Network. IEEE Access, 2021, 9, 129810-129819.   | 4.2 | 9         |
| 31 | Deflect Routing for Throughput Improvement in Multi-Hop Millimeter-Wave WPAN System. , 2009, , .  |     | 7         |
| 32 | A Pro-Active Beamforming Protocol for Multi-Gbps Millimeter-Wave WPAN Systems. , 2010, , .  |     | 7         |
| 33 | Achieving secure communication through pilot manipulation. , 2015, , .  |     | 7         |
| 34 | Virtual Time-Slot Allocation Scheme for Throughput Enhancement in a Millimeter-Wave GBPS WPAN Cross Layer Design. , 2009, , .   |     | 6         |
| 35 | Exact Error Probabilities for MRC in Frequency Selective Nakagami Fading with ISI, CCI and ACI. , 2009, , .   |     | 6         |
| 36 | Research, Development, and Standards Related Activities on Dynamic Spectrum Access and Cognitive Radio. , 2010, , .   |     | 6         |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 37 | On the spectrum efficiency of mesh and star topology wide area wireless sensor networks. , 2014, , .                        |     | 6         |
| 38 | On Reducing Multiband Spectrum Sensing Duration for Cognitive Radio Networks. , 2016, , .                                   |     | 6         |
| 39 | Performance of TDOA and AOA Localization Techniques for Different Base-Stations Topologies. , 2019, , .                     |     | 6         |
| 40 | Analysis and Comparison of Inter-Symbol/Frame Interference in Pulsed DS- and Hybrid DS/TH-UWB Communications. , 2009, , .   |     | 5         |
| 41 | A Scalable Heuristic Scheduling Strategy for 60GHz WPAN STDMA System with Directional Antennas. , 2010, , .                 |     | 5         |
| 42 | Coexistence protocol design for autonomous decision-making systems in TV white space. , 2012, , .                           |     | 5         |
| 43 | A feasible neighbor discovery algorithm for coexistence control system over TVWS. , 2012, , .                               |     | 5         |
| 44 | System design to enable coexistence in TV white space. , 2012, , .  |     | 5         |
| 45 | Analysis of extended busy tone performance for coexistence between WRAN and WLAN TVWS networks. , 2015, , .                 |     | 5         |
| 46 | Dynamic utilization of low-altitude platforms in aerial heterogeneous cellular networks. , 2017, , .                        |     | 5         |
| 47 | A Cross Layer Interference and Coexistence Model for Millimeter-Wave WPAN with Directional Antennas. , 2010, , .            |     | 4         |
| 48 | Improving preamble detection performance of IEEE P802.15.4k DSSS PHY. , 2013, , .   |     | 4         |
| 49 | Busy tone based coexistence algorithm for WRAN and WLAN systems in TV white space. IET Communications, 2018, 12, 1630-1637. | 2.2 | 4         |
| 50 | Performance Analysis of VLC Based on 802.11ac Frame Structure. IEEE Communications Letters, 2019, 23, 1560-1563.            | 4.1 | 4         |
| 51 | Generalized decorrelating discrete-time rake receiver. IEEE Transactions on Wireless Communications, 2007, 6, 4268-4274.    | 9.2 | 3         |
| 52 | Adjacent channel interference resistance of a multi-Gbps millimeter-wave WPAN system. , 2008, , .                           |     | 3         |
| 53 | Novel frame design methodology for multi-gigabit 60GHz WPAN systems. , 2008, , .  |     | 3         |
| 54 | A synchronization-frame-aided interference mitigation mechanism for millimeter-wave WPAN. , 2009, , .                       |     | 3         |

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|----|---|-----|-----------|
| 55 | A SNR Mapping Scheme for ZF/MMSE Based SC-FDE Structured WPANs. , 2009, , .   |     | 3         |
| 56 | Throughput and Error Analysis of a Space-Time Resource Management Scheme for Multi-Gbps Millimeter-Wave WPAN System. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2009, E92.A, 2659-2668. | 0.3 | 3         |
| 57 | Error Rate Analysis of Band-Limited BPSK With Nakagami/Nakagami ACI Considering Nonlinear Amplifier and Diversity. IEEE Transactions on Vehicular Technology, 2010, 59, 1523-1529.  | 6.3 | 3         |
| 58 | Autonomous Dynamic Frequency Selection for WLANs Operating in the TV White Space. , 2011, , .   |     | 3         |
| 59 | Unequal Error Protection for Compressed Video Streaming on 60GHz WPAN System. , 2008, , .   |     | 2         |
| 60 | Performance evaluation of mmWave single carrier systems with a novel NLOS channel model. , 2013, , .  |     | 2         |
| 61 | TVWS potential in Turkey. , 2016, , .   |     | 2         |
| 62 | Comparative Performance Evaluation of VLC, LTE and WLAN Technologies in Indoor Environments. , 2021, , .  |     | 2         |
| 63 | A 130 nm CMOS Receiver for Visible Light Communication. Journal of Lightwave Technology, 2022, 40, 3681-3687.   | 4.6 | 2         |
| 64 | Fixed Point Decoding Performance of Short-Length Structured LDPC Codes for SC-FDE Based 60-GHz WPAN (IEEE 802.15.3c). , 2008, , .   |     | 1         |
| 65 | Achieving Gbps Throughput for Millimeter-Wave WPAN with an Anti-Blocking Scheme Using Deflection Routing. , 2009, , .   |     | 1         |
| 66 | Investigation of Synchronization Frame Transmission in Multi-Gbps 60 GHz WPANs. , 2010, , .   |     | 1         |
| 67 | Verification of TVWS Coexistence System Based on P802.19.1 Draft Standard. , 2013, , .  |     | 1         |
| 68 | Busy tone implementation for coexistence of IEEE 802.22 and 802.11af systems. , 2015, , .   |     | 1         |
| 69 | Busy tone based power control for coordination of IEEE 802.11af and 802.22 system. , 2017, , .  |     | 1         |
| 70 | A Microcontroller-Based Wireless Multichannel Neural Data Transmission System. , 2017, , .  |     | 1         |
| 71 | A Novel Indoor Channel Model for TVWS Communications Based on Measurements. , 2018, , .   |     | 1         |
| 72 | Efficient POPS-OFDM Waveform Design for Future Wireless Communication Systems. IEEE Systems Journal, 2019, 13, 171-182.   | 4.6 | 1         |

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|----|--|-----|-----------|
| 73 | Distance and Power based Experimental Verification of Channel Model in Visible Light Communication. , 2019, , .  |     | 1         |
| 74 | Hybrid MEMS-Based Molecular Communication System. , 2019, , .  |     | 1         |
| 75 | Measurement Based Statistical Channel Characterization of Air-to-Ground Path Loss Model at 446MHz for Narrow-Band Signals in Low Altitude UAVs. , 2020, , .  |     | 1         |
| 76 | Experimental Validation of a Novel RLL Code for Visible Light Communication. , 2020, , .   |     | 1         |
| 77 | Error Probability of MRC in Frequency Selective Nakagami Fading in the Presence of CCI and ACI. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2009, E92-A, 2679-2687. | 0.3 | 1         |
| 78 | Standardization Activities Related to TV White Space. , 2011, , 173-208.   |     | 1         |
| 79 | A behavioral paradigm for cortical control of a robotic actuator by freely moving rats in a one-dimensional two-target reaching task. Journal of Neuroscience Methods, 2022, 373, 109555.                        | 2.5 | 1         |
| 80 | Iterative Methods for the G-RAKE Receiver in HSDPA. , 2006, , .  |     | 0         |
| 81 | Performance of G-RAKE Receiver in DS-CDMA Ultra-Wideband Systems. , 2007, , .  |     | 0         |
| 82 | Improvement of Header Detection Rate in 60 GHz Single Carrier WPAN System. , 2008, , .   |     | 0         |
| 83 | Performance of Trellis-Coded-Modulation for a Multi-Gigabit Millimeter-Wave WPAN System in the Presence of Hardware Impairments. , 2008, , .   |     | 0         |
| 84 | A Feasible Frequency Domain Pre-Equalization Proposal Based on Cross Layer Design in 60GHz WPANs. , 2008, , .  |     | 0         |
| 85 | Operation Range Estimation of Reed-Solomon Coded SC-FDE System in 60-GHz WPANs. International Conference on Advanced Communication Technology, 2008, , .   | 0.0 | 0         |
| 86 | Preamble Design for Millimeter-Wave Single Carrier WPANs. , 2009, , .  |     | 0         |
| 87 | A Space-Time Resource Management Scheme for Multi-Gbps Millimeter-Wave WPAN System. , 2009, , .  |     | 0         |
| 88 | On Error Probabilities for DS-CDMA/MRC in Frequency Selective Nakagami Fading. , 2009, , .   |     | 0         |
| 89 | Telecommunications standards: Part II [Guest Editorial]. , 2013, 51, 72-73.  |     | 0         |
| 90 | Telecommunications standards. , 2013, 51, 78-79.   |     | 0         |

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|----|--|-----|-----------|
| 91 | Application of standard CMOS photodiodes in optical communication systems. , 2017, , .   |     | 0         |
| 92 | A novel one-base station hybrid positioning method. , 2017, , .  |     | 0         |
| 93 | A new approach for coexistence of IEEE 802.11af and IEEE 802.22 systems. , 2018, , .   |     | 0         |
| 94 | Performance Analysis of User Scheduling in Massive MIMO with Fast Moving Users. , 2019, , .  |     | 0         |
| 95 | A Complete Design of Coexistence Information Service for Autonomous Decision-Making Systems in TV White Space. IEICE Transactions on Communications, 2012, E95.B, 1230-1240. | 0.7 | 0         |
| 96 | Flexible Beacon Design For 60 GHz Wireless Personal Area Networks. Journal of Natural and Applied Sciences, 2019, 23, 943-947.   | 0.4 | 0         |