Ana GarcÃ-a Armada

List of Publications by Year
in descending order

122 papers	2,066 citations	331670 21 h-index	302126 39 g-index
126 all docs	126 docs citations	126 times ranked	1753 citing authors

#	Article	IF	Citations
1	Understanding the effects of phase noise in orthogonal frequency division multiplexing (OFDM). IEEE Transactions on Broadcasting, 2001, 47, 153-159.	3.2	295
2	Phase noise and sub-carrier spacing effects on the performance of an OFDM communication system. IEEE Communications Letters, 1998, 2, 11-13.	4.1	151
3	Fair Design of Plug-in Electric Vehicles Aggregator for V2G Regulation. IEEE Transactions on Vehicular Technology, 2012, 61, 3406-3419.	6.3	130
4	Blind Interference Alignment for Cellular Networks. IEEE Transactions on Signal Processing, 2015, 63, 41-56.	5.3	82
5	Task Scheduling for Mobile Edge Computing Using Genetic Algorithm and Conflict Graphs. IEEE Transactions on Vehicular Technology, 2020, 69, 8805-8819.	6.3	70
6	SNR gap approximation for M-PSK-Based bit loading. IEEE Transactions on Wireless Communications, 2006, 5, 57-60.	9.2	65
7	OFDM performance in amplifier nonlinearity. IEEE Transactions on Broadcasting, 1998, 44, 106-114.	3.2	57
8	Design and implementation of synchronization and AGC for OFDM-based WLAN receivers. IEEE Transactions on Consumer Electronics, 2004, 50, 1016-1025.	3.6	55
9	VLC-Based Networking: Feasibility and Challenges. IEEE Network, 2020, 34, 158-165.	6.9	53
10	New Technologies and Trends for Next Generation Mobile Broadcasting Services. , 2016, 54, 217-223.		45
11	Analysis of RIS-Based Terrestrial-FSO Link Over G-G Turbulence With Distance and Jitter Ratios. Journal of Lightwave Technology, 2021, 39, 6746-6758.	4.6	40
12	High Power Amplifier Pre-Distorter Based on Neural-Fuzzy Systems for OFDM Signals. IEEE Transactions on Broadcasting, 2011, 57, 149-158.	3.2	36
13	A non-coherent multi-user large scale SIMO system relaying on M-ary DPSK. , 2015, , .		35
14	A robust support vector algorithm for nonparametric spectral analysis. IEEE Signal Processing Letters, 2003, 10, 320-323.	3.6	33
15	Phase Noise Degradation in Massive MIMO Downlink With Zero-Forcing and Maximum Ratio Transmission Precoding. IEEE Transactions on Vehicular Technology, 2016, 65, 8052-8059.	6.3	30
16	A Noncoherent Multiuser Large-Scale SIMO System Relying on M-Ary DPSK and BICM-ID. IEEE Transactions on Vehicular Technology, 2018, 67, 1809-1814.	6.3	30
17	Joint Channel and Phase Noise Compensation for OFDM in Fast-Fading Multipath Applications. IEEE Transactions on Vehicular Technology, 2009, 58, 636-643.	6.3	29
18	An Energy-Efficient Adaptive Modulation Suitable for Wireless Sensor Networks with SER and Throughput Constraints. Eurasip Journal on Wireless Communications and Networking, 2007, 2007, 1.	2.4	26

#	Article	IF	Citations
19	Bit Error Rate Performance of MIMO MMSE Receivers in Correlated Rayleigh Flat-Fading Channels. IEEE Transactions on Vehicular Technology, 2011, 60, 313-317.	6.3	25
20	Channel Hardening in Cell-Free and User-Centric Massive MIMO Networks With Spatially Correlated Ricean Fading. IEEE Access, 2020, 8, 139827-139845.	4.2	25
21	Performance Analysis and Parameter Optimization of DLL and MEDLL in Fading Multipath Environments for Next Generation Navigation Receivers. IEEE Transactions on Consumer Electronics, 2007, 53, 1302-1308.	3.6	24
22	SINR Degradation in MIMO-OFDM Systems with Channel Estimation Errors and Partial Phase Noise Compensation. IEEE Transactions on Communications, 2010, 58, 2199-2203.	7.8	24
23	Waterfilling Schemes for Zero-Forcing Coordinated Base Station Transmission. , 2009, , .		23
24	Reduction of Power Envelope Fluctuations in OFDM Signals by using Neural Networks. IEEE Communications Letters, 2010, 14, 599-601.	4.1	22
25	Cognitive Blind Interference Alignment for Macro-Femto Networks. IEEE Transactions on Signal Processing, 2017, 65, 5121-5136.	5.3	20
26	Aligning the Light Without Channel State Information for Visible Light Communications. IEEE Journal on Selected Areas in Communications, 2018, 36, 91-105.	14.0	20
27	Load Balancing in Hybrid VLC and RF Networks Based on Blind Interference Alignment. IEEE Access, 2020, 8, 72512-72527.	4.2	20
28	Subband CQI Feedback-Based Multicast Resource Allocation in MIMO-OFDMA Networks. IEEE Transactions on Broadcasting, 2018, 64, 846-864.	3.2	18
29	Reduction of the Envelope Fluctuations of Multi-Carrier Modulations using Adaptive Neural Fuzzy Inference Systems. IEEE Transactions on Communications, 2011, 59, 19-25.	7.8	17
30	Non-Coherent Massive SIMO System Based on M-DPSK for Rician Channels. IEEE Transactions on Vehicular Technology, 2019, 68, 2413-2426.	6.3	17
31	Parameter optimization and simulated performance of a DVB-T digital television broadcasting system. IEEE Transactions on Broadcasting, 1998, 44, 131-138.	3.2	16
32	Collision-Free Sequential Task Offloading for Mobile Edge Computing. IEEE Communications Letters, 2020, 24, 71-75.	4.1	16
33	Rapid prototyping of a test modem for terrestrial broadcasting of digital television. IEEE Transactions on Consumer Electronics, 1997, 43, 1100-1109.	3.6	15
34	Channel modeling and characterization at 17 GHz for indoor broadband WLAN. IEEE Journal on Selected Areas in Communications, 2002, 20, 593-601.	14.0	15
35	SINR analysis of OFDM and f-OFDM for machine type communications. , 2016, , .		15
36	Semi-Blind Interference Aligned NOMA for Downlink MU-MISO Systems. IEEE Transactions on Communications, 2020, 68, 1852-1865.	7.8	15

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37	Short-Term Power Constrained Cell-Free Massive-MIMO Over Spatially Correlated Ricean Fading. IEEE Transactions on Vehicular Technology, 2020, 69, 15200-15215.	6.3	15
38	User-Centric Blind Interference Alignment Design for Visible Light Communications. IEEE Access, 2019, 7, 21220-21234.	4.2	14
39	Efficient implementation of complementary Golay sequences for PAR reduction and forward error correction in OFDM-based WLAN systems. AEU - International Journal of Electronics and Communications, 2008, 62, 683-694.	2.9	13
40	Field Measurements and Guidelines for the Application of Wireless Sensor Networks to the Environment and Security. Sensors, 2009, 9, 10309-10325.	3.8	13
41	Interference Pricing Mechanism for Downlink Multicell Coordinated Beamforming. IEEE Transactions on Communications, 2014, 62, 1871-1883.	7.8	13
42	Testbed for a LiFi system integrated in streetlights. , 2015, , .		13
43	Continuous and Burst Pilot Sequences for Channel Estimation in FBMC-OQAM. IEEE Transactions on Vehicular Technology, 2018, 67, 9711-9720.	6.3	13
44	Effects of bandpass sigma-delta modulation on OFDM signals. IEEE Transactions on Consumer Electronics, 1999, 45, 318-326.	3.6	12
45	Subcarrier and Power Allocation for the Downlink of Multiuser OFDM Transmission. Wireless Personal Communications, 2006, 39, 457-465.	2.7	12
46	Fairness-Adaptive Goodput-Based Resource Allocation in OFDMA Downlink with ARQ. IEEE Transactions on Vehicular Technology, 2014, 63, 1178-1192.	6.3	12
47	Differential Data-Aided Channel Estimation for Up-Link Massive SIMO-OFDM. IEEE Open Journal of the Communications Society, 2020, 1, 976-989.	6.9	12
48	Constrained power allocation schemes for coordinated base station transmission using block diagonalization. Eurasip Journal on Wireless Communications and Networking, 2011, 2011, .	2.4	10
49	Mean Achievable Rates in Clustered Coordinated Base Station Transmission with Block Diagonalization. IEEE Transactions on Communications, 2013, 61, 3483-3493.	7.8	10
50	Superimposed Training for Channel Estimation in FBMC-OQAM. , 2017, , .		10
51	Performance of a Non-Coherent Massive SIMO M-DPSK System. , 2017, , .		10
52	Radio Resource Allocation for Multicast Services Based on Multiple Video Layers. IEEE Transactions on Broadcasting, 2018, 64, 695-708.	3.2	10
53	Characterization of the Visible Light Communications during the Construction of Tunnels. , 2019, , .		10
54	Service-Based Network Dimensioning for 5G Networks Assisted by Real Data. IEEE Access, 2020, 8, 129193-129212.	4.2	10

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55	Non-Coherent Massive MIMO-OFDM Down-Link Based on Differential Modulation. IEEE Transactions on Vehicular Technology, 2020, 69, 11281-11294.	6.3	10
56	Energy Efficient Subchannel and Power Allocation in Cooperative VLC Systems. IEEE Communications Letters, 2021, 25, 1935-1939.	4.1	10
57	Resource Allocation in User-Centric Optical Wireless Cellular Networks Based on Blind Interference Alignment. Journal of Lightwave Technology, 2021, 39, 6695-6711.	4.6	10
58	A model to evaluate MBSFN and AL-FEC techniques in a multicast video streaming service. , 2014, , .		9
59	Power Allocation and Capacity Analysis for FBMC-OQAM With Superimposed Training. IEEE Access, 2019, 7, 46968-46976.	4.2	9
60	Bender's Decomposition for Optimization Design Problems in Communication Networks. IEEE Network, 2020, 34, 232-239.	6.9	9
61	Performance Analysis of RIS-Assisted FSO Communications over Fisherâ€“Snedecor F Turbulence Channels. Applied Sciences (Switzerland), 2021, 11, 10149.	2.5	9
62	WLC43-1: Estimation and Correction of Phase Noise Effects in Orthogonal Frequency Division Multiplexing. IEEE Global Telecommunications Conference (GLOBECOM), 2006, , .	0.0	8
63	Methods for Compression of Feedback in Adaptive Multi-carrier 4G Schemes. Wireless Personal Communications, 2008, 47, 101-112.	2.7	8
64	Blended Antenna Wearables for an Unconstrained Mobile Experience. , 2017, 55, 160-168.		8
65	Learning Mobile Communications Standards through Flexible Software Defined Radio Base Stations. , 2017, 55, 116-123.		8
66	Non-Coherent Multiuser Massive MIMO-OFDM with Differential Modulation. , 2019, , .		8
67	On the choice of blind interference alignment strategy for cellular systems with data sharing. , 2014, , .		7
68	Optimization of the Receiving Orientation Angle for Zero-Forcing Precoding in VLC. IEEE Communications Letters, 2021, 25, 921-925.	4.1	7
69	Experimental Evaluation of Blind Interference Alignment. , 2015, , .		6
70	A blind interference alignment scheme for practical channels. , 2016, , .		6
71	Experimental Evaluation of the Reconfigurable Photodetector for Blind Interference Alignment in Visible Light Communications. , 2019, , .		6
72	Pilot Decontamination Processing in Cell-Free Massive MIMO. IEEE Communications Letters, 2021, 25, 3990-3994.	4.1	6

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73	CRUISE research activities toward ubiquitous intelligent sensing environments. IEEE Wireless Communications, 2008, 15, 52-60.	9.0	5
74	Resource Allocation in Multi-Antenna MAC Networks: FBMC vs OFDM. , 2011, , .		5
75	Analysis of the impact of FEC techniques on a multicast video streaming service over LTE. , 2015, , .		5
76	Practical Guidelines for Approaching the Implementation of Neural Networks on FPGA for PAPR Reduction in Vehicular Networks. Sensors, 2019, 19, 116.	3.8	5
77	Pilot Pouring in Superimposed Training for Channel Estimation in CB-FMT. IEEE Transactions on Wireless Communications, 2021, 20, 3366-3380.	9.2	5
78	Multi-user Synchronisation in ad hoc OFDM-based Wireless Personal Area Networks. Wireless Personal Communications, 2007, 40, 387-399.	2.7	4
79	Uplink Channel Estimation for Multi-user OFDM-based Systems. Wireless Personal Communications, 2008, 47, 125-136.	2.7	4
80	New $[47,15,16]$ Linear Binary Block Code. IEEE Transactions on Information Theory, 2008, 54, 423-424.	2.4	4
81	Effect of multipath and antenna diversity in MIMO-OFDM systems with imperfect channel estimation and phase noise compensation. Physical Communication, 2008, 1, 288-297.	2.1	4
82	Effect of Channel Estimation Errors in MIMO-OFDM Systems with Phase Noise Compensation. , 2008, , .		4
83	MMSE Precoding for Downlink Coordinated Base Station Transmission. , 2011, , .		4
84	Orthogonal versus Non-Orthogonal multiplexing in Non-Coherent Massive MIMO Systems based on DPSK. , 2021, , .		4
85	Unsupervised Clustering for 5G Network Planning Assisted by Real Data. IEEE Access, 2022, 10, 39269-39281.	4.2	4
86	An Adaptive MIMO - OFDM System: Design and Performance Evaluation. , 2006, , .		3
87	A MIMO-OFDM Testbed, Channel Measurements, and System Considerations for Outdoor-Indoor WiMAX. Eurasip Journal on Wireless Communications and Networking, 2009, 2010, .	2.4	3
88	A Discrete Bit Loading Algorithm for FBMC/OQAM. IEEE Signal Processing Letters, 2012, 19, 324-327.	3.6	3
89	Aligning the Light Based on the Network Topology for Visible Light Communications. , 2018, , .		3
90	Degrees of Freedom of 2-Tier Networks Without Channel State Information at the Transmitter. IEEE Signal Processing Letters, 2019, 26, 382-386.	3.6	3

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91	Analysis of SVD-Based Hybrid Schemes for Massive MIMO With Phase Noise and Imperfect Channel Estimation. IEEE Transactions on Vehicular Technology, 2020, 69, 7325-7338.	6.3	3
92	Modelling, Performance Analysis and Design of WPAN Systems. Wireless Personal Communications, 2007, 42, 367-386.	2.7	2
93	Network-MIMO backhauling for QOS-constrained relay transmission. , 2011, , .		2
94	Partial coordination in clustered base station MIMO transmission. , 2013, , .		2
95	Cognitive blind interference alignment for macro-femto cellular networks. , 2014, , .		2
96	Performance and Complexity Tradeoffs of Several Constellations for Non Coherent Massive MIMO. , 2019, , .		2
97	Interference Management for K-Tier Networks Without CSIT Based on Reconfigurable Antennas. IEEE Transactions on Communications, 2021, 69, 8068-8084.	7.8	2
98	Evaluation of Different Spreading Sequences for MC-CDMA in WLAN Environments. , 2004, , 167-174.		2
99	Performance of digital collective antenna systems in the presence of phase noise and clock jitter. IEEE Transactions on Consumer Electronics, 1997, 43, 188-196.	3.6	1
100	Analysis of Beamforming and Spatial Multiplexing Strategies in WMAN Outdoor-Indoor Scenarios. , 2009, , .		1
101	Special issue on Advances in MIMOâ€“OFDM. Physical Communication, 2011, 4, 251-253.	2.1	1
102	Zero-Forcing Coordinated Base Station Transmission for Femtocell Systems. , 2011, , .		1
103	Analysis of the cluster size in coordinated multipoint transmission. , 2011, , .		1
104	Energy profiling of FPGA-based PHY-layer building blocks encountered in modern wireless communication systems. , 2014, , .		1
105	Achievable Rate and Fairness in Coordinated Base Station Transmission. IEEE Communications Letters, 2014, 18, 584-587.	4.1	1
106	Radio-over-Fiber Aided Base Station Coordination for OFDM. , 2014, , .		1
107	End to end measurements of multimedia streaming over LTE. , 2016, , .		1
108	Performance Analysis of the FBMC Modulation Format in Optical Fiber and Wireless Communications. , 2021, , .		1

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109	Low-Complexity Power Allocation in Pilot-Pouring Superimposed-Training Over CB-FMT. IEEE Transactions on Vehicular Technology, 2021, 70, 13010-13021.	6.3	1
110	UMTS Air Interface. , 0, , 11-135.		0
111	Performance study of cooperative diversity schemes for Wireless Sensor Networks based on UltraWideBand. , 2009, , .		0
112	Effects of Channel Estimation on Multiuser Virtual MIMO-OFDMA Relay-Based Networks. Eurasip Journal on Wireless Communications and Networking, 2010, 2010, .	2.4	0
113	Virtual Maximum Ratio Transmission for Downlink OFDMA Relay-based Networks. Wireless Personal Communications, 2012, 62, 537-555.	2.7	0
114	Space-time code diversity by phase rotation in multi-carrier multi-user systems. Eurasip Journal on Wireless Communications and Networking, 2013, 2013, .	2.4	0
115	Interference-aware MIMO precoder design with realistic power constraints. , 2013, , .		0
116	Novel orthogonal multi-sequences for an efficient jamming on the UMTS signal. Eurasip Journal on Wireless Communications and Networking, 2016, 2016, .	2.4	0
117	User-Centric Cell Formation for Blind Interference Alignment in Optical Wireless Networks. , 2021, , .		0
118	Wireless Communication Systems. , 0, , .		0
119	A Complex Support Vector Machine Approach to OFDM Coherent Demodulation. , 2007, , 179-202.		0
120	Emerging Telecommunications Technologies. Advances in E-Business Research Series, 2009, , 788-803.	0.4	0
121	Emerging Telecommunications Technologies. , 2010, , 545-561.		0
122	Joint Channel Tracking and Phase Noise Compensation for OFDM in Fast Fading Multipath Channels. , 2007, , 297-306.		0