

# Ana GarcÃ-a Armada

## List of Publications by Year in descending order

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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	Unsupervised Clustering for 5G Network Planning Assisted by Real Data. IEEE Access, 2022, 10, 39269-39281.	4.2	4
2	Optimization of the Receiving Orientation Angle for Zero-Forcing Precoding in VLC. IEEE Communications Letters, 2021, 25, 921-925.	4.1	7
3	Interference Management for $K$ -Tier Networks Without CSIT Based on Reconfigurable Antennas. IEEE Transactions on Communications, 2021, 69, 8068-8084.	7.8	2
4	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
5	Orthogonal versus Non-Orthogonal multiplexing in Non-Coherent Massive MIMO Systems based on DPSK. , 2021, , .		4
6	Energy Efficient Subchannel and Power Allocation in Cooperative VLC Systems. IEEE Communications Letters, 2021, 25, 1935-1939.	4.1	10
7	Pilot Pouring in Superimposed Training for Channel Estimation in CB-FMT. IEEE Transactions on Wireless Communications, 2021, 20, 3366-3380.	9.2	5
8	User-Centric Cell Formation for Blind Interference Alignment in Optical Wireless Networks. , 2021, , .		0
9	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
10	Pilot Decontamination Processing in Cell-Free Massive MIMO. IEEE Communications Letters, 2021, 25, 3990-3994.	4.1	6
11	Performance Analysis of the FBMC Modulation Format in Optical Fiber and Wireless Communications. , 2021, , .		1
12	Performance Analysis of RIS-Assisted FSO Communications over Fisher's Snedecor F Turbulence Channels. Applied Sciences (Switzerland), 2021, 11, 10149.	2.5	9
13	Low-Complexity Power Allocation in Pilot-Pouring Superimposed-Training Over CB-FMT. IEEE Transactions on Vehicular Technology, 2021, 70, 13010-13021.	6.3	1
14	Collision-Free Sequential Task Offloading for Mobile Edge Computing. IEEE Communications Letters, 2020, 24, 71-75.	4.1	16
15	Semi-Blind Interference Aligned NOMA for Downlink MU-MISO Systems. IEEE Transactions on Communications, 2020, 68, 1852-1865.	7.8	15
16	Service-Based Network Dimensioning for 5G Networks Assisted by Real Data. IEEE Access, 2020, 8, 129193-129212.	4.2	10
17	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
18	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

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19	Non-Coherent Massive MIMO-OFDM Down-Link Based on Differential Modulation. IEEE Transactions on Vehicular Technology, 2020, 69, 11281-11294.	6.3	10
20	VLC-Based Networking: Feasibility and Challenges. IEEE Network, 2020, 34, 158-165.	6.9	53
21	Task Scheduling for Mobile Edge Computing Using Genetic Algorithm and Conflict Graphs. IEEE Transactions on Vehicular Technology, 2020, 69, 8805-8819.	6.3	70
22	Bender's Decomposition for Optimization Design Problems in Communication Networks. IEEE Network, 2020, 34, 232-239.	6.9	9
23	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
24	Load Balancing in Hybrid VLC and RF Networks Based on Blind Interference Alignment. IEEE Access, 2020, 8, 72512-72527.	4.2	20
25	Short-Term Power Constrained Cell-Free Massive-MIMO Over Spatially Correlated Rician Fading. IEEE Transactions on Vehicular Technology, 2020, 69, 15200-15215.	6.3	15
26	Non-Coherent Multiuser Massive MIMO-OFDM with Differential Modulation. , 2019, , .		8
27	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
28	User-Centric Blind Interference Alignment Design for Visible Light Communications. IEEE Access, 2019, 7, 21220-21234.	4.2	14
29	Practical Guidelines for Approaching the Implementation of Neural Networks on FPGA for PAPR Reduction in Vehicular Networks. Sensors, 2019, 19, 116.	3.8	5
30	Power Allocation and Capacity Analysis for FBMC-OQAM With Superimposed Training. IEEE Access, 2019, 7, 46968-46976.	4.2	9
31	Performance and Complexity Tradeoffs of Several Constellations for Non Coherent Massive MIMO. , 2019, , .		2
32	Characterization of the Visible Light Communications during the Construction of Tunnels. , 2019, , .		10
33	Experimental Evaluation of the Reconfigurable Photodetector for Blind Interference Alignment in Visible Light Communications. , 2019, , .		6
34	Non-Coherent Massive SIMO System Based on M-DPSK for Rician Channels. IEEE Transactions on Vehicular Technology, 2019, 68, 2413-2426.	6.3	17
35	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
36	Subband CQI Feedback-Based Multicast Resource Allocation in MIMO-OFDMA Networks. IEEE Transactions on Broadcasting, 2018, 64, 846-864.	3.2	18

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37	Radio Resource Allocation for Multicast Services Based on Multiple Video Layers. IEEE Transactions on Broadcasting, 2018, 64, 695-708.	3.2	10
38	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
39	Aligning the Light Based on the Network Topology for Visible Light Communications. , 2018, , .		3
40	Continuous and Burst Pilot Sequences for Channel Estimation in FBMC-OQAM. IEEE Transactions on Vehicular Technology, 2018, 67, 9711-9720.	6.3	13
41	Blended Antenna Wearables for an Unconstrained Mobile Experience. , 2017, 55, 160-168.		8
42	Learning Mobile Communications Standards through Flexible Software Defined Radio Base Stations. , 2017, 55, 116-123.		8
43	Cognitive Blind Interference Alignment for Macro-Femto Networks. IEEE Transactions on Signal Processing, 2017, 65, 5121-5136.	5.3	20
44	Superimposed Training for Channel Estimation in FBMC-OQAM. , 2017, , .		10
45	Performance of a Non-Coherent Massive SIMO M-DPSK System. , 2017, , .		10
46	Novel orthogonal multi-sequences for an efficient jamming on the UMTS signal. Eurasip Journal on Wireless Communications and Networking, 2016, 2016, .	2.4	0
47	SINR analysis of OFDM and f-OFDM for machine type communications. , 2016, , .		15
48	A blind interference alignment scheme for practical channels. , 2016, , .		6
49	New Technologies and Trends for Next Generation Mobile Broadcasting Services. , 2016, 54, 217-223.		45
50	End to end measurements of multimedia streaming over LTE. , 2016, , .		1
51	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
52	A non-coherent multi-user large scale SIMO system relaying on M-ary DPSK. , 2015, , .		35
53	Experimental Evaluation of Blind Interference Alignment. , 2015, , .		6
54	Testbed for a LiFi system integrated in streetlights. , 2015, , .		13

#	ARTICLE	IF	CITATIONS
55	Analysis of the impact of FEC techniques on a multicast video streaming service over LTE. , 2015, , .		5
56	Blind Interference Alignment for Cellular Networks. IEEE Transactions on Signal Processing, 2015, 63, 41-56.	5.3	82
57	Cognitive blind interference alignment for macro-femto cellular networks. , 2014, , .		2
58	A model to evaluate MBSFN and AL-FEC techniques in a multicast video streaming service. , 2014, , .		9
59	On the choice of blind interference alignment strategy for cellular systems with data sharing. , 2014, , .		7
60	Fairness-Adaptive Goodput-Based Resource Allocation in OFDMA Downlink with ARQ. IEEE Transactions on Vehicular Technology, 2014, 63, 1178-1192.	6.3	12
61	Energy profiling of FPGA-based PHY-layer building blocks encountered in modern wireless communication systems. , 2014, , .		1
62	Achievable Rate and Fairness in Coordinated Base Station Transmission. IEEE Communications Letters, 2014, 18, 584-587.	4.1	1
63	Interference Pricing Mechanism for Downlink Multicell Coordinated Beamforming. IEEE Transactions on Communications, 2014, 62, 1871-1883.	7.8	13
64	Radio-over-Fiber Aided Base Station Coordination for OFDM. , 2014, , .		1
65	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
66	Partial coordination in clustered base station MIMO transmission. , 2013, , .		2
67	Interference-aware MIMO precoder design with realistic power constraints. , 2013, , .		0
68	Mean Achievable Rates in Clustered Coordinated Base Station Transmission with Block Diagonalization. IEEE Transactions on Communications, 2013, 61, 3483-3493.	7.8	10
69	Fair Design of Plug-in Electric Vehicles Aggregator for V2G Regulation. IEEE Transactions on Vehicular Technology, 2012, 61, 3406-3419.	6.3	130
70	A Discrete Bit Loading Algorithm for FBMC/OQAM. IEEE Signal Processing Letters, 2012, 19, 324-327.	3.6	3
71	Virtual Maximum Ratio Transmission for Downlink OFDMA Relay-based Networks. Wireless Personal Communications, 2012, 62, 537-555.	2.7	0
72	Special issue on Advances in MIMO“OFDM. Physical Communication, 2011, 4, 251-253.	2.1	1

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73	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
74	High Power Amplifier Pre-Distorter Based on Neural-Fuzzy Systems for OFDM Signals. IEEE Transactions on Broadcasting, 2011, 57, 149-158.	3.2	36
75	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
76	Constrained power allocation schemes for coordinated base station transmission using block diagonalization. Eurasip Journal on Wireless Communications and Networking, 2011, 2011, .	2.4	10
77	MMSE Precoding for Downlink Coordinated Base Station Transmission. , 2011, , .		4
78	Resource Allocation in Multi-Antenna MAC Networks: FBMC vs OFDM. , 2011, , .		5
79	Zero-Forcing Coordinated Base Station Transmission for Femtocell Systems. , 2011, , .		1
80	Analysis of the cluster size in coordinated multipoint transmission. , 2011, , .		1
81	Network-MIMO backhauling for QOS-constrained relay transmission. , 2011, , .		2
82	Effects of Channel Estimation on Multiuser Virtual MIMO-OFDMA Relay-Based Networks. Eurasip Journal on Wireless Communications and Networking, 2010, 2010, .	2.4	0
83	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
84	Reduction of Power Envelope Fluctuations in OFDM Signals by using Neural Networks. IEEE Communications Letters, 2010, 14, 599-601.	4.1	22
85	Emerging Telecommunications Technologies. , 2010, , 545-561.		0
86	Waterfilling Schemes for Zero-Forcing Coordinated Base Station Transmission. , 2009, , .		23
87	Performance study of cooperative diversity schemes for Wireless Sensor Networks based on UltraWideBand. , 2009, , .		0
88	Field Measurements and Guidelines for the Application of Wireless Sensor Networks to the Environment and Security. Sensors, 2009, 9, 10309-10325.	3.8	13
89	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
90	Analysis of Beamforming and Spatial Multiplexing Strategies in WMAN Outdoor-Indoor Scenarios. , 2009, , .		1

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91	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
92	Emerging Telecommunications Technologies. Advances in E-Business Research Series, 2009, , 788-803.	0.4	0
93	Methods for Compression of Feedback in Adaptive Multi-carrier 4G Schemes. Wireless Personal Communications, 2008, 47, 101-112.	2.7	8
94	Uplink Channel Estimation for Multi-user OFDM-based Systems. Wireless Personal Communications, 2008, 47, 125-136.	2.7	4
95	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
96	New $[47,15,16]$ Linear Binary Block Code. IEEE Transactions on Information Theory, 2008, 54, 423-424.	2.4	4
97	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
98	CRUISE research activities toward ubiquitous intelligent sensing environments. IEEE Wireless Communications, 2008, 15, 52-60.	9.0	5
99	Effect of Channel Estimation Errors in MIMO-OFDM Systems with Phase Noise Compensation. , 2008, , .		4
100	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
101	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
102	Modelling, Performance Analysis and Design of WPAN Systems. Wireless Personal Communications, 2007, 42, 367-386.	2.7	2
103	Multi-user Synchronisation in ad hoc OFDM-based Wireless Personal Area Networks. Wireless Personal Communications, 2007, 40, 387-399.	2.7	4
104	A Complex Support Vector Machine Approach to OFDM Coherent Demodulation. , 2007, , 179-202.		0
105	Joint Channel Tracking and Phase Noise Compensation for OFDM in Fast Fading Multipath Channels. , 2007, , 297-306.		0
106	SNR gap approximation for M-PSK-Based bit loading. IEEE Transactions on Wireless Communications, 2006, 5, 57-60.	9.2	65
107	Subcarrier and Power Allocation for the Downlink of Multiuser OFDM Transmission. Wireless Personal Communications, 2006, 39, 457-465.	2.7	12
108	WLC43-1: Estimation and Correction of Phase Noise Effects in Orthogonal Frequency Division Multiplexing. IEEE Global Telecommunications Conference (GLOBECOM), 2006, , .	0.0	8

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109	An Adaptive MIMO - OFDM System: Design and Performance Evaluation. , 2006, , .		3
110	Design and implementation of synchronization and AGC for OFDM-based WLAN receivers. IEEE Transactions on Consumer Electronics, 2004, 50, 1016-1025.	3.6	55
111	Evaluation of Different Spreading Sequences for MC-CDMA in WLAN Environments. , 2004, , 167-174.		2
112	A robust support vector algorithm for nonparametric spectral analysis. IEEE Signal Processing Letters, 2003, 10, 320-323.	3.6	33
113	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
114	Understanding the effects of phase noise in orthogonal frequency division multiplexing (OFDM). IEEE Transactions on Broadcasting, 2001, 47, 153-159.	3.2	295
115	Effects of bandpass sigma-delta modulation on OFDM signals. IEEE Transactions on Consumer Electronics, 1999, 45, 318-326.	3.6	12
116	OFDM performance in amplifier nonlinearity. IEEE Transactions on Broadcasting, 1998, 44, 106-114.	3.2	57
117	Parameter optimization and simulated performance of a DVB-T digital television broadcasting system. IEEE Transactions on Broadcasting, 1998, 44, 131-138.	3.2	16
118	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
119	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
120	Rapid prototyping of a test modem for terrestrial broadcasting of digital television. IEEE Transactions on Consumer Electronics, 1997, 43, 1100-1109.	3.6	15
121	UMTS Air Interface. , 0, , 11-135.		0
122	Wireless Communication Systems. , 0, , .		0