

Marco Moretti

List of Publications by Year in descending order

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80
papers

1,345
citations

361045

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377514

34
g-index

80
all docs

80
docs citations

80
times ranked

1002
citing authors

#	ARTICLE	IF	CITATIONS
1	Orbital Angular Momentum Waves: Generation, Detection, and Emerging Applications. IEEE Communications Surveys and Tutorials, 2020, 22, 840-868.	24.8	190
2	Beam Steering for the Misalignment in UCA-Based OAM Communication Systems. IEEE Wireless Communications Letters, 2018, 7, 582-585.	3.2	105
3	Distributed Power Allocation for D2D Communications Underlying/Overlaying OFDMA Cellular Networks. IEEE Transactions on Wireless Communications, 2017, 16, 1466-1479.	6.1	66
4	Fine carrier and sampling frequency synchronization in OFDM systems. IEEE Transactions on Wireless Communications, 2010, 9, 1514-1524.	6.1	65
5	A Robust Maximum Likelihood Scheme for PSS Detection and Integer Frequency Offset Recovery in LTE Systems. IEEE Transactions on Wireless Communications, 2016, 15, 1353-1363.	6.1	54
6	Real-Time Rain Rate Evaluation via Satellite Downlink Signal Attenuation Measurement. Sensors, 2017, 17, 1864.	2.1	46
7	A Resource Allocator for the Uplink of Multi-Cell OFDMA Systems. IEEE Transactions on Wireless Communications, 2007, 6, 2807-2812.	6.1	45
8	Channel estimation in OFDM systems with unknown interference. IEEE Transactions on Wireless Communications, 2009, 8, 5338-5347.	6.1	39
9	Integer frequency offset recovery in OFDM transmissions over selective channels. IEEE Transactions on Wireless Communications, 2008, 7, 5220-5226.	6.1	37
10	Efficient Margin Adaptive Scheduling for MIMO-OFDMA Systems. IEEE Transactions on Wireless Communications, 2013, 12, 278-287.	6.1	36
11	Centralized Radio Resource Allocation for OFDMA Cellular Systems. , 2007, , .		35
12	Robust frequency synchronization for OFDM-based cognitive radio systems. IEEE Transactions on Wireless Communications, 2008, 7, 5346-5355.	6.1	30
13	Message Passing Resource Allocation for the Uplink of Multi-Carrier Multi-Format Systems. IEEE Transactions on Wireless Communications, 2012, 11, 130-141.	6.1	28
14	Carrier Frequency Offset Estimation for OFDM Direct-Conversion Receivers. IEEE Transactions on Wireless Communications, 2012, 11, 2670-2679.	6.1	28
15	Radio resource allocation problems for OFDMA cellular systems. Computers and Operations Research, 2009, 36, 1572-1581.	2.4	27
16	A Maximum Likelihood Approach for SSS Detection in LTE Systems. IEEE Transactions on Wireless Communications, 2017, 16, 2423-2433.	6.1	27
17	The NEFOCAST System for Detection and Estimation of Rainfall Fields by the Opportunistic Use of Broadcast Satellite Signals. IEEE Aerospace and Electronic Systems Magazine, 2019, 34, 16-27.	2.3	26
18	A Layered Architecture for Fair Resource Allocation in Multicellular Multicarrier Systems. IEEE Transactions on Vehicular Technology, 2011, 60, 1788-1798.	3.9	25

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19	Joint Maximum Likelihood Estimation of CFO, Noise Power, and SNR in OFDM Systems. IEEE Wireless Communications Letters, 2013, 2, 42-45.	3.2	25
20	On the Convergence and Optimality of Reweighted Message Passing for Channel Assignment Problems. IEEE Signal Processing Letters, 2014, 21, 1428-1432.	2.1	24
21	Resource Allocation for Power Minimization in the Downlink of THP-Based Spatial Multiplexing MIMO-OFDMA Systems. IEEE Transactions on Vehicular Technology, 2015, 64, 405-411.	3.9	22
22	Improved Decoding of BICM-OFDM Transmissions Plagued by Narrowband Interference. IEEE Transactions on Wireless Communications, 2011, 10, 20-26.	6.1	17
23	Joint Spatial Division and Coaxial Multiplexing for Downlink Multi-User OAM Wireless Backhaul. IEEE Transactions on Broadcasting, 2021, 67, 879-893.	2.5	17
24	AoA Estimation for OAM Communication Systems With Mode-Frequency Multi-Time ESPRIT Method. IEEE Transactions on Vehicular Technology, 2021, 70, 5094-5098.	3.9	16
25	Frequency Estimation in OFDM Direct-Conversion Receivers Using a Repeated Preamble. IEEE Transactions on Communications, 2016, 64, 1246-1258.	4.9	14
26	Distributed Channel Allocation for D2D-Enabled 5G Networks Using Potential Games. IEEE Access, 2019, 7, 11195-11208.	2.6	14
27	Spectral and energy efficiency of line-of-sight OAM-MIMO communication systems. China Communications, 2020, 17, 119-127.	2.0	14
28	Estimation of residual carrier and sampling frequency offsets in OFDM-SDMA uplink transmissions. IEEE Transactions on Wireless Communications, 2010, 9, 734-744.	6.1	13
29	WLC46-1: A Modular Cross-Layer Scheduling and Resource Allocation Architecture for OFDMA Systems. IEEE Global Telecommunications Conference (GLOBECOM), 2006, , .	0.0	12
30	A Min-Sum Approach for Resource Allocation in Communication Systems. , 2011, , .		12
31	A Novel Scheme for CP-Length Detection and Initial Synchronization for the LTE Downlink. IEEE Transactions on Wireless Communications, 2019, 18, 4668-4678.	6.1	12
32	MMSE Receiver Design and SINR Calculation in MU-MIMO Systems With Imperfect CSI. IEEE Wireless Communications Letters, 2019, 8, 269-272.	3.2	11
33	A Quasi-Optimal Clustering Algorithm for MIMO-NOMA Downlink Systems. IEEE Wireless Communications Letters, 2020, 9, 152-156.	3.2	11
34	Message passing resource allocation for the uplink of multicarrier systems. , 2009, , .		10
35	ESPRIT-Based Carrier Frequency Offset Estimation for OFDM Direct-Conversion Receivers. IEEE Communications Letters, 2013, 17, 1513-1516.	2.5	10
36	SDMA for FBMC with block diagonalization. , 2013, , .		10

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37	Maximum Likelihood Frequency Estimation and Preamble Identification in OFDMA-based WIMAX Systems. IEEE Transactions on Wireless Communications, 2014, 13, 1582-1592.	6.1	10
38	Power Minimization of Downlink Spectrum Slicing for eMBB and URLLC Users. IEEE Transactions on Wireless Communications, 2022, 21, 11051-11065.	6.1	9
39	Potential games for subcarrier allocation in multi-cell networks with D2D communications. , 2016, , .		8
40	Power and subcarrier allocation in 5G NOMA-FD systems. IEEE Transactions on Wireless Communications, 2020, , 1-1.	6.1	8
41	OFDM Synchronization in an Uncoordinated Spectrum Sharing Scenario. , 2007, , .		7
42	Resource allocation and packet scheduling in OFDMA-based cellular networks. , 2009, , .		7
43	Hybrid TH-VP Precoding for Multiuser MIMO. IEEE Transactions on Vehicular Technology, 2017, 66, 11399-11403.	3.9	7
44	Periodic Preamble-Based Frequency Recovery in OFDM Receivers Plagued by I/Q Imbalance. IEEE Transactions on Wireless Communications, 2017, 16, 8305-8315.	6.1	7
45	UCA-Based OAM Non-Orthogonal Multi-Mode Multiplexing. IEEE Open Journal of Antennas and Propagation, 2021, 2, 181-190.	2.5	7
46	A message passing approach for multi-cellular OFDMA systems. , 2010, , .		6
47	A message passing approach for resource allocation in cellular OFDMA communications. , 2012, , .		6
48	ML estimation of timing, integer frequency and primary sequence index in LTE systems. , 2015, , .		6
49	Single-Tone Frequency Estimation by Weighted Least-Squares Interpolation of Fourier Coefficients. IEEE Transactions on Communications, 2022, 70, 526-537.	4.9	6
50	Edge Computing and Communication for Energy-Efficient Earth Surveillance with LEO Satellites. , 2022, , .		6
51	Frequency Offset Estimation in I/Q Mismatched OFDM Receivers. , 2010, , .		5
52	A SAGE Approach to Frequency Recovery in OFDM Direct-Conversion Receivers. IEEE Communications Letters, 2014, 18, 536-539.	2.5	5
53	The nefocast project: A nowcasting weather platform based on dual-frequency interactive satellite terminals. , 2017, , .		5
54	Distributed Digital and Hybrid Beamforming Schemes With MMSE-SIC Receivers for the MIMO Interference Channel. IEEE Transactions on Vehicular Technology, 2019, 68, 6790-6804.	3.9	5

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55	Frame Synchronization for FSO Links With Unknown Signal Amplitude and Noise Power. IEEE Wireless Communications Letters, 2021, 10, 1498-1502.	3.2	5
56	A Practical Scheme for Frequency Offset Estimation in MIMO-OFDM Systems. Eurasip Journal on Wireless Communications and Networking, 2009, 2009, .	1.5	4
57	Combined Pilot-Aided and Decision-Directed Carrier Synchronization for Filtered Multitone Wireless Systems. IEEE Transactions on Wireless Communications, 2013, 12, 748-757.	6.1	4
58	Exploiting satellite Ka and Ku links for the real-time estimation of rain intensity. , 2017, , .		4
59	The Potential of SmartInb Networks for Rainfall Estimation. , 2018, , .		4
60	Optimal Power Allocation for Full-Duplex Communications over OFDMA Cellular Networks. , 2018, , .		4
61	Architecting RAN Slicing for URLLC: Design Decisions and Open Issues. , 2019, , .		4
62	Low Complexity SNR Estimation for Transmissions Over Time-Varying Flat-Fading Channels. , 2009, , .		3
63	A frequency estimation scheme for a two-signal environment. , 0, , .		2
64	Distributed radio resource allocation for the downlink of multi-cell OFDMA radio systems. , 2010, , .		2
65	Efficient carrier recovery for FBMC systems over time-frequency selective channels. , 2011, , .		2
66	Distributed power allocation for D2D communications overlaying OFDMA networks. , 2017, , .		2
67	NEFOCAST Project for Real-Time Precipitation Estimation from Ku Satellite Links: Preliminary Results of the Validation Field Campaign. , 2018, , .		2
68	Performance Comparison of Non-Linear Precoding Schemes for Multi-User MIMO Broadcast Channels. , 2019, , .		2
69	Deep reinforcement learning-aided RAN slicing enforcement supporting latency sensitive services in B5G networks. Internet Technology Letters, 2021, 4, e328.	1.4	2
70	Combined PA/NPA CFO Recovery for FBMC Transmissions over Doubly-Selective Fading Channels. , 2011, , .		1
71	Resource allocation for load minimization jointly with admission control in OFDMA wireless networks. , 2013, , .		1
72	Integer frequency offset estimation and preamble identification in WiMAX systems. , 2014, , .		1

#	ARTICLE	IF	CITATIONS
73	Kalman Tracking of GEO Satellite Signal for Opportunistic Rain Rate Estimation. , 2018, , .		1
74	Globalization of Mobile and Wireless Communications: Bridging the Digital Divide. Signals and Communication Technology, 2011, , 19-29.	0.4	1
75	Radio-Frequency Multi-Mode OAM Detection Based on UCA Samples Learning. , 2021, , .		1
76	A maximum-likelihood detector for coded OFDM transmission plagued by narrowband interference. , 2010, , .		0
77	A margin adaptive scheduling algorithm for FBMC/OQAM systems. , 2014, , .		0
78	The NEFOCAST project: Quantitative precipitation estimation based on interactive satellite terminals. , 2017, , .		0
79	A BLUE-Based Approach to Frequency Recovery in OFDM Receivers with I/Q Imbalance. , 2017, , .		0
80	Evolution of Spatial and Multicarrier Scheduling: Towards Multi-cell Scenario. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2010, , 530-542.	0.2	0