Erdal Panayirci

List of Publications by Year
in descending order

117	3,097	331259	174990
papers	citations	21 h-index	52 g-index

117	117	117	1915
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Orthogonal Frequency Division Multiplexing With Index Modulation. IEEE Transactions on Signal Processing, 2013, 61, 5536-5549.	3.2	827
2	Space-Time Block Coded Spatial Modulation. IEEE Transactions on Communications, 2011, 59, 823-832.	4.9	336
3	Low-Complexity MAP-Based Successive Data Detection for Coded OFDM Systems Over Highly Mobile Wireless Channels. IEEE Transactions on Vehicular Technology, 2011, 60, 2849-2857.	3.9	162
4	Conditional Power and Rate Adaptation for MQAM/OFDM Systems Under CFO With Perfect and Imperfect Channel Estimation Errors. IEEE Transactions on Vehicular Technology, 2015, 64, 5042-5055.	3.9	153
5	Performance of Spatial Modulation in the Presence of Channel Estimation Errors. IEEE Communications Letters, 2012, 16, 176-179.	2.5	144
6	Joint Channel Estimation, Equalization, and Data Detection for OFDM Systems in the Presence of Very High Mobility. IEEE Transactions on Signal Processing, 2010, 58, 4225-4238.	3.2	127
7	IEEE 802.15.7r1 Reference Channel Models for Visible Light Communications. , 2017, 55, 212-217.		122
8	A Mobile Channel Model for VLC and Application to Adaptive System Design. IEEE Communications Letters, 2017, 21, 1035-1038.	2.5	90
9	New Trellis Code Design for Spatial Modulation. IEEE Transactions on Wireless Communications, 2011, 10, 2670-2680.	6.1	84
10	Optical MIMO-OFDM with Generalized LED Index Modulation. IEEE Transactions on Communications, 2017, , 1-1.	4.9	78
11	Physical-Layer Security in 6G Networks. IEEE Open Journal of the Communications Society, 2021, 2, 1901-1914.	4.4	53
12	Sparse Channel Estimation for OFDM-Based Underwater Acoustic Systems in Rician Fading With a New OMP-MAP Algorithm. IEEE Transactions on Signal Processing, 2019, 67, 1550-1565.	3.2	45
13	Orthogonal frequency division multiplexing with index modulation. , 2012, , .		38
14	Nondata-Aided Joint Channel Estimation and Equalization for OFDM Systems in Very Rapidly Varying Mobile Channels. IEEE Transactions on Signal Processing, 2012, 60, 4236-4253.	3.2	37
15	Sparse Channel Estimation and Equalization for OFDM-Based Underwater Cooperative Systems With Amplify-and-Forward Relaying. IEEE Transactions on Signal Processing, 2016, 64, 214-228.	3.2	37
16	A test for multidimensional clustering tendency. Pattern Recognition, 1983, 16, 433-444.	5.1	34
17	Performance of Transmit and Receive Antenna Selection in the Presence of Channel Estimation Errors. IEEE Communications Letters, 2008, 12, 371-373.	2.5	32
18	Iterative Channel Estimation and Decoding of Turbo Coded SFBC-OFDM Systems. IEEE Transactions on Wireless Communications, 2007, 6, 3090-3101.	6.1	31

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19	Relay-Aided Secure Broadcasting for Visible Light Communications. IEEE Transactions on Communications, 2019, 67, 4227-4239.	4.9	30
20	Physical-Layer Security With Optical Generalized Space Shift Keying. IEEE Transactions on Communications, 2020, 68, 3042-3056.	4.9	30
21	Energy-Efficient Resources Allocation With Millimeter-Wave Massive MIMO in Ultra Dense HetNets by SWIPT and CoMP. IEEE Transactions on Wireless Communications, 2021, 20, 4435-4451.	6.1	27
22	Next-Generation Multiple Access Based on NOMA With Power Level Modulation. IEEE Journal on Selected Areas in Communications, 2022, 40, 1072-1083.	9.7	26
23	Physical Layer Security for Multi-User MIMO Visible Light Communication Systems With Generalized Space Shift Keying. IEEE Transactions on Communications, 2021, 69, 2585-2598.	4.9	23
24	Reconstruction and Boundary Detection of Range and Intensity Images Using Multiscale MRF Representations. Computer Vision and Image Understanding, 1996, 63, 353-366.	3.0	20
25	Physical-Layer Security in Visible Light Communications. , 2020, , .		20
26	On channel estimation in DC Biased optical OFDM systems over VLC channels. , 2016, , .		19
27	Information theoretical performance analysis and optimisation of cooperative underwater acoustic communication systems. IET Communications, 2016, 10, 812-823.	1.5	19
28	An improved 2-D lattice filter and its entropy relations. Signal Processing, 1992, 28, 1-24.	2.1	18
29	Effect of power and rate adaptation on the spectral efficiency of MQAM/OFDM system under very fast fading channels. Eurasip Journal on Wireless Communications and Networking, 2012, 2012, .	1.5	18
30	Optical OFDM with index modulation for visible light communications. , 2015, , .		18
31	Channel estimation for visible light communications using neural networks. , 2016, , .		18
32	Space-time block coding for spatial modulation. , 2010, , .		17
33	Generalized LED index modulation optical OFDM for MIMO visible light communications systems. , 2016, , .		17
34	Pilot Symbol Aided Channel Estimation for Spatial Modulation-OFDM Systems and its Performance Analysis with Different Types of Interpolations. Wireless Personal Communications, 2017, 94, 1387-1404.	1.8	15
35	Special issue on broadband mobile communications at very high speeds. Eurasip Journal on Wireless Communications and Networking, 2012, 2012, .	1.5	13
36	Interpolation based pilotâ€aided channel estimation for STBC spatial modulation and performance analysis under imperfect CSI. IET Communications, 2016, 10, 1820-1828.	1.5	13

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37	Achieving Minimum Error in MISO Optical Spatial Modulation. , 2018, , .		13
38	On channel estimation for spatial modulated systems over time-varying channels. , 2015, 37, 43-52.		12
39	Pilot assisted channel estimation for asymmetrically clipped optical OFDM over visible light channels. , 2016, , .		12
40	Sparse Channel Estimation for Space-Time Block Coded OFDM-Based Underwater Acoustic Channels. , 2018, , .		12
41	A Low-Complexity KL Expansion-Based Channel Estimator for OFDM Systems. Eurasip Journal on Wireless Communications and Networking, 2005, 2005, 1.	1.5	11
42	Novel channel models for visible light communications. Proceedings of SPIE, 2015, , .	0.8	11
43	Optimum design of finite duration nyquist signals. Signal Processing, 1984, 7, 57-64.	2.1	10
44	Minimum redundancy array structure for interference cancellation. Signal Processing, 1995, 42, 319-334.	2.1	10
45	A Reliable Successive Relaying Protocol. IEEE Transactions on Communications, 2014, 62, 1431-1443.	4.9	10
46	Channel Estimation and Equalization for Alamouti SF-Coded OFDM-UWA Communications. IEEE Transactions on Vehicular Technology, 2021, 70, 1709-1723.	3.9	9
47	Further improved 2-D lattice filter structure employing missing reflection coefficients. Circuits, Systems, and Signal Processing, 1995, 14, 473-494.	1.2	8
48	Feature extraction in shape recognition using segmentation of the boundary curve. Pattern Recognition Letters, 1997, 18, 1049-1056.	2.6	8
49	Synchronization in Wireless Communications. Eurasip Journal on Wireless Communications and Networking, 2009, 2009, .	1.5	7
50	Iterative joint data detection and channel estimation for uplink MC-CDMA systems in the presence of frequency selective channels. Physical Communication, 2010, 3, 87-96.	1.2	7
51	Spatial Constellation Design-Based Generalized Space Shift Keying for Physical Layer Security of Multi-User MIMO Communication Systems. IEEE Wireless Communications Letters, 2021, 10, 1785-1789.	3.2	7
52	MAP Channel-Estimation-Based PIC Receiver for Downlink MC-CDMA Systems. Eurasip Journal on Wireless Communications and Networking, 2007, 2008, .	1.5	6
53	An Efficient Joint Data Detection and Channel Estimation Technique for Uplink MC-CDMA Systems Based on SAGE Algorithm. , 2007, , .		6
54	A Gibbs Sampling Based MAP Detection Algorithm for OFDM over Rapidly Varying Mobile Radio Channels. , 2009, , .		6

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55	Monte Carlo Solutions for Blind Phase Noise Estimation. Eurasip Journal on Wireless Communications and Networking, 2009, 2009, .	1.5	6
56	Power and Rate Adaptation for MQAM/OFDM Systems under Fast Fading Channels. , 2012, , .		6
57	Power Control-Based Multi-User Li-Fi Using a Compound Eye Transmitter. , 2015, , .		6
58	Power and Rate Adaptation Based on CSI and Velocity Variation for OFDM Systems Under Doubly Selective Fading Channels. IEEE Access, 2016, 4, 6833-6845.	2.6	6
59	Nonâ€”dataâ€”aided ML carrier frequency and phase synchronization in OFDM systems. European Transactions on Telecommunications, 2001, 12, 83-94.	1.2	5
60	Iterative Channel Estimation Techniques for Uplink MC-CDMA Systems. , 2007, , .		5
61	Information theoretical performance limits of singleâ€carrier underwater acoustic systems. IET Communications, 2014, 8, 2599-2610.	1.5	5
62	Spline based channel estimation for STBC-SM systems over fast-varying rician fading channels. , 2015, , .		5
63	Channel Modeling for Visible Light Communications. Signals and Communication Technology, 2016, , 107-122.	0.4	5
64	Spline interpolation based channel estimation for ACO-OFDM over visible light channels. , 2016, , .		5
65	Iterative channel estimation approach for space-time/frequency coded OFDM systems with transmitter diversity. European Transactions on Telecommunications, 2004, 15, 235-248.	1.2	4
66	A Low-Complexity Time-Domain MMSE Channel Estimator for Space-Time/Frequency Block-Coded OFDM Systems. Eurasip Journal on Advances in Signal Processing, 2006, 2006, 1.	1.0	4
67	Trellis Code Design for Spatial Modulation. , 2011, , .		4
68	Guest editorial: special issue on high mobility wireless communications. Journal of Modern Transportation, 2012, 20, 197-198.	2.5	4
69	Channel estimation for spatial modulation orthogonal frequency division multiplexing systems. , 2015, , .		4
70	Physical-Layer Security for Indoor Visible Light Communications with Space Shift Keying Modulation. , 2018, , .		4
71	Relay-Aided Secure Broadcasting for VLC. , 2018, , .		4
72	Security and Reliability Performance of Noise-Loop Modulation: Theoretical Analysis and Experimentation. IEEE Transactions on Vehicular Technology, 2022, 71, 6335-6350.	3.9	4

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73	A Monte Carlo Implementation of the SAGE Algorithm for Joint Soft-Multiuser Decoding, Channel Parameter Estimation, and Code Acquisition. IEEE Transactions on Signal Processing, 2010, 58, 5756-5766.	3.2	3
74	Channel estimation in underwater cooperative OFDM system with amplify-and-forward relaying. , 2012, , .		3
75	Reliable two-path successive relaying. , 2013, , .		3
76	Data detection based iterative channel estimation for coded SM-OFDM systems. , 2016, , .		3
77	Optical Index-Coded Space Shift Keying (IC/SSK). IEEE Communications Letters, 2021, 25, 2654-2658.	2.5	3
78	Joint Data Detection and Channel Estimation for Uplink MC-CDMA Systems over Frequency Selective Channels. , 2007, , 397-406.		3
79	Maximum Likelihood Blind Channel Estimation for Space-Time Coding Systems. Eurasip Journal on Advances in Signal Processing, 2002, 2002, 1.	1.0	2
80	Maximum a posteriori multipath fading channel estimation for ofdm systems. European Transactions on Telecommunications, 2002, 13, 487-494.	1.2	2
81	Joint Channel Tracking and Symbol Detection for OFDM Systems with Kalman Filtering. AEU - International Journal of Electronics and Communications, 2003, 57, 317-327.	1.7	2
82	Linear expansions for frequency selective channels in OFDM. AEU - International Journal of Electronics and Communications, 2006, 60, 224-234.	1.7	2
83	Channel estimation for MIMO-OFDM systems in fixed broadband wireless applications. , 2007, , .		2
84	EM-Based MAP Channel Estimation and Data Detection for Downlink MC-CDMA Systems. , 2007, , .		2
85	Iterative channel estimation for spatial modulation systems over fast fading channels. , 2014, , .		2
86	Modeling of visible light channels and performance analysis of ACO-OFDM. , 2015, , .		2
87	Optical spatial modulation OFDM system design. , 2016, , .		2
88	Power control and resource allocation in TDD-OFDM based femtocell networks with interference. , 2017, , .		2
89	Subchannel Allocation and Power Control for Uplink Femtocell Radio Networks with Imperfect Channel State Information. Wireless Personal Communications, 2019, 108, 1345-1361.	1.8	2
90	Transmit Precoding for Physical Layer Security of MIMO-NOMA-Based Visible Light Communications. , 2021, , .		2

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91	A 3D-Printed Actuator Based Beam Steering Approach for Improved Physical Layer Security in Visible Light Communication. Applied Optics, 0, , .	0.9	2
92	Adaptive identification and equalization of magnetic recording channels. European Transactions on Telecommunications, 1998, 9, 203-208.	1.2	1
93	Letter: On the performance of trellis coded Mâ€”PSK systems over rician fading channels with phase jitter. European Transactions on Telecommunications, 2001, 12, 31-35.	1.2	1
94	Blind-phase noise estimation in OFDM systems by sequential Monte Carlo method. European Transactions on Telecommunications, 2006, 17, 685-693.	1.2	1
95	Blind Data Detection in the Presence of PLL Phase Noise by Sequential Monte Carlo Method. , 2006, , .		1
96	An efficient SAGE-based data detection algorithm for OFDM systems in the presence of very fast fading channels. , 2013, , .		1
97	Sparse channel estimation for OFDM-based underwater cooperative systems with amplify-and-forward relaying. , 2014, , .		1
98	Performance of MIMO enhanced unipolar OFDM with realistic indoor visible light channel models. , 2016, , .		1
99	VLC sparse channel estimation in the presence of non-Gaussian clipping noise. , 2016, , .		1
100	Modeling and equalization of indoor visible light channnels. , 2016, , .		1
101	A Novel Transmit Array Structure for Optical Spatial Modulation. , 2019, , .		1
102	Spatial Point Processes and Clustering Tendency in Exploratory Data Analysis. , 1987, , 81-97.		1
103	Extention of the Cox-Lewis method for testing multidimensional data. Pattern Recognition Letters, 1988, 7, 1-8.	2.6	0
104	<title>Image segmentation based on multiscale random field models</title>. , 1996, , .		0
105	Sequence Estimation with Transmit Diversity for Wireless Communications. AEU - International Journal of Electronics and Communications, 2003, 57, 309-316.	1.7	0
106	Effect of Channel Estimation Errors on the Performance of Space Time Coded Systems With Antenna Selection. , 2007, , .		0
107	Design and performance analysis of a novel trellis coded spaceâ€“timeâ€“frequency OFDM transmission scheme. European Transactions on Telecommunications, 2008, 19, 67-75.	1.2	0
108	Joint channel estimation and equalization for OFDM based broadband communications in rapidly varying mobile channels. , 2010, , .		0

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109	Trellis coding for spatial modulation. , 2011, , .		0
110	Advanced signal processing techniques for wireless communications. , 2011, , .		0
111	MP-SAGE based channel estimation for underwater cooperative OFDM systems. , 2013, , .		0
112	Partial Power and Rate Adaptation for MQAM/OFDM Systems under CFO. , 2014, , .		0
113	Power Control-Based Multi-User Li-Fi Using a Compound Eye Transmitter. , 2014, , .		0
114	Pilot symbol assisted channel estimation for 4×4 space time block coded spatial modulation systems. , 2015, , .		0
115	Non-Data Aided EM-Based Channel Estimation for OFDM Systems with Time-Varying Fading Channels. , 2002, , 293-301.		0
116	Clustering Tendency Problem in Pattern Analysis. , 1985, , 533-556.		0
117	Cost-effective test-bed for secure visible-light communication. Optical Engineering, 2022, 61, .	0.5	0