

Mow, Wai Ho

List of Publications by Year in descending order

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1725
citing authors

#	ARTICLE	IF	CITATIONS
1	On the Performance of the MIMO Zero-Forcing Receiver in the Presence of Channel Estimation Error. IEEE Transactions on Wireless Communications, 2007, 6, 805-810.	9.2	276
2	Complex Lattice Reduction Algorithm for Low-Complexity Full-Diversity MIMO Detection. IEEE Transactions on Signal Processing, 2009, 57, 2701-2710.	5.3	254
3	The evolution path of 4G networks: FDD or TDD?. , 2006, 44, 42-50.		126
4	Affordable Cyclostationarity-Based Spectrum Sensing for Cognitive Radio With Smart Antennas. IEEE Transactions on Vehicular Technology, 2010, 59, 1877-1886.	6.3	124
5	Robust joint interference detection and decoding for OFDM-based cognitive radio systems with unknown interference. IEEE Journal on Selected Areas in Communications, 2007, 25, 566-575.	14.0	84
6	Design of spreading codes for quasi-synchronous CDMA with intercell interference. IEEE Journal on Selected Areas in Communications, 2006, 24, 84-93.	14.0	82
7	Universal lattice decoding: principle and recent advances. Wireless Communications and Mobile Computing, 2003, 3, 553-569.	1.2	78
8	Adaptive Resource Allocation and Capacity Comparison of Downlink Multiuser MIMO-MC-CDMA and MIMO-OFDMA. IEEE Transactions on Wireless Communications, 2007, 6, 1083-1093.	9.2	69
9	A New Systematic Construction of Zero Correlation Zone Sequences Based on Interleaved Perfect Sequences. IEEE Transactions on Information Theory, 2008, 54, 5729-5734.	2.4	66
10	Maximum likelihood sequence estimation from the lattice viewpoint. IEEE Transactions on Information Theory, 1994, 40, 1591-1600.	2.4	64
11	A new unified construction of perfect root-of-unity sequences. , 0, , .		58
12	Effect of Carrier Frequency Offset on Channel Estimation for SISO/MIMO-OFDM Systems. IEEE Transactions on Wireless Communications, 2007, 6, 1854-1863.	9.2	53
13	Analytical Performance of MIMO-SVD Systems in Ricean Fading Channels with Channel Estimation Error and Feedback Delay. IEEE Transactions on Wireless Communications, 2008, 7, 1315-1325.	9.2	48
14	Robust Clipping for OFDM Transmissions over Memoryless Impulsive Noise Channels. IEEE Communications Letters, 2012, 16, 1110-1113.	4.1	48
15	On Optimal Training Sequence Design for Multiple-Antenna Systems Over Dispersive Fading Channels and Its Extensions. IEEE Transactions on Vehicular Technology, 2004, 53, 1623-1626.	6.3	44
16	Reduced and Fixed-Complexity Variants of the LLL Algorithm for Communications. IEEE Transactions on Communications, 2013, 61, 1040-1050.	7.8	42
17	A Tighter Correlation Lower Bound for Quasi-Complementary Sequence Sets. IEEE Transactions on Information Theory, 2014, 60, 388-396.	2.4	39
18	A Case Study on the Communication and Computation Behaviors of Real Applications in NoC-Based MPSoCs. , 2014, , .		34

#	ARTICLE	IF	CITATIONS
19	Near Maximum Likelihood Detection Schemes for Wireless MIMO Systems. IEEE Transactions on Wireless Communications, 2004, 3, 1427-1430.	9.2	28
20	Joint Erasure Marking and Viterbi Decoding Algorithm for Unknown Impulsive Noise Channels. IEEE Transactions on Wireless Communications, 2008, 7, 3407-3416.	9.2	27
21	Exact regenerating codes for Byzantine fault tolerance in distributed storage. , 2012, , .		26
22	New evolutionary search for long low autocorrelation binary sequences. IEEE Transactions on Aerospace and Electronic Systems, 2015, 51, 290-303.	4.7	25
23	Dual-Lattice Ordering and Partial Lattice Reduction for SIC-Based MIMO Detection. IEEE Journal on Selected Topics in Signal Processing, 2009, 3, 975-985.	10.8	24
24	An Efficient Algorithm for Optimally Solving a Shortest Vector Problem in Compute-and-Forward Design. IEEE Transactions on Wireless Communications, 2016, 15, 6541-6555.	9.2	24
25	Aperiodic autocorrelation and crosscorrelation of polyphase sequences. IEEE Transactions on Information Theory, 1997, 43, 1000-1007.	2.4	23
26	Performance of Variable-Power Adaptive Modulation With Space-Time Coding and Imperfect CSI in MIMO Systems. IEEE Transactions on Vehicular Technology, 2009, 58, 2115-2120.	6.3	22
27	Multiple-antenna differential lattice decoding. IEEE Journal on Selected Areas in Communications, 2005, 23, 1821-1829.	14.0	20
28	Recursive Constructions of Detecting Matrices for Multiuser Coding: A Unifying Approach. IEEE Transactions on Information Theory, 2009, 55, 93-98.	2.4	19
29	A Novel Current-Mode Sensing Scheme for Magnetic Tunnel Junction MRAM. IEEE Transactions on Magnetics, 2004, 40, 483-488.	2.1	17
30	Singularity Probability Analysis for Sparse Random Linear Network Coding. , 2011, , .		17
31	Robust Decoding for Convolutionally Coded Systems Impaired by Memoryless Impulsive Noise. IEEE Transactions on Communications, 2013, 61, 4640-4652.	7.8	16
32	Asymptotically Locally Optimal Weight Vector Design for a Tighter Correlation Lower Bound of Quasi-Complementary Sequence Sets. IEEE Transactions on Signal Processing, 2017, 65, 3107-3119.	5.3	16
33	Performance Comparison of Downlink Multiuser MIMO-OFDMA and MIMO-MC-CDMA with Transmit Side Information - Multi-Cell Analysis. IEEE Transactions on Wireless Communications, 2007, 6, 2193-2203.	9.2	15
34	A joint approach to erasure marking and Viterbi decoding for impulsive noise channels. , 0, , .		13
35	Error probability for MIMO zero-forcing receiver with adaptive power allocation in the presence of imperfect channel state information. IEEE Transactions on Wireless Communications, 2007, 6, 1523-1529.	9.2	13
36	Optimal Two-Dimensional Lattices for Precoding of Linear Channels. IEEE Transactions on Wireless Communications, 2013, 12, 2104-2113.	9.2	13

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37	Two-Way Decode-and-Forward for Low-Complexity Wireless Relaying: Selective Forwarding Versus One-Bit Soft Forwarding. IEEE Transactions on Wireless Communications, 2016, 15, 1866-1880.	9.2	13
38	A unified view of sorting in lattice reduction: From V-BLAST to LLL and beyond. , 2009, , .		12
39	A quadratic programming relaxation approach to compute-and-forward network coding design. , 2014, , .		12
40	New construction of Zä€complementary pairs. Electronics Letters, 2016, 52, 609-611.	1.0	12
41	Best quadriphase codes up to length 24. Electronics Letters, 1993, 29, 923-925.	1.0	11
42	On the complexity reduction of turbo decoding for wideband CDMA. IEEE Transactions on Wireless Communications, 2005, 4, 353-356.	9.2	11
43	Minimizing the worst-case interuser interference experienced by any user in CDMA systems: a matrix approach. , 0, , .		11
44	Universal lattice decoding: a review and some recent results. , 2004, , .		10
45	Efficient Exact Regenerating Codes for Byzantine Fault Tolerance in Distributed Networked Storage. IEEE Transactions on Communications, 2014, 62, 385-397.	7.8	10
46	A joint early detection-early stopping scheme for short-frame turbo decoding. AEU - International Journal of Electronics and Communications, 2011, 65, 37-43.	2.9	9
47	Multilevel perfect sequences over integers. Electronics Letters, 2011, 47, 496.	1.0	9
48	An Efficient Optimal Algorithm for the Successive Minima Problem. IEEE Transactions on Communications, 2019, 67, 1424-1436.	7.8	9
49	Deep Multi-Task Learning for Cooperative NOMA: System Design and Principles. IEEE Journal on Selected Areas in Communications, 2021, 39, 61-78.	14.0	9
50	Exact Bit Error Rate for SVD-based MIMO systems with Channel Estimation Errors. , 2006, , .		8
51	Existence of ternary perfect sequences with a few zero elements. , 2011, , .		8
52	A Near BER-Optimal Decoding Algorithm for Convolutionally Coded Relay Channels With the Decode-and-Forward Protocol. IEEE Transactions on Wireless Communications, 2017, 16, 1767-1781.	9.2	8
53	On the bounds on odd correlation of sequences. IEEE Transactions on Information Theory, 1994, 40, 954-955.	2.4	7
54	A unified construction of perfect polyphase sequences. , 0, , .		7

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55	Novel Joint Sorting and Reduction Technique for Delay-Constrained LLL-Aided MIMO Detection. IEEE Signal Processing Letters, 2008, 15, 194-197.	3.6	7
56	Joint Erasure Marking and List Viterbi Algorithm for Decoding in Unknown Non-Gaussian Noise. IEEE Transactions on Wireless Communications, 2008, 7, 787-792.	9.2	7
57	On the decimations of Frank sequences. IEEE Transactions on Communications, 1995, 43, 751-753.	7.8	6
58	Bit-Interleaved Coded Modulation in the Presence of Unknown Impulsive Noise. , 2006, , .		6
59	Superposition coding for wireless Butterfly Network with partial Network Side-Information. , 2013, , .		6
60	Compute-and-forward protocol design based on improved sphere decoding. , 2015, , .		6
61	Lattice Structures of Precoders Maximizing the Minimum Distance in Linear Channels. IEEE Transactions on Information Theory, 2015, 61, 908-916.	2.4	6
62	Even-odd transformation with application to multiuser CW radars. IEEE Transactions on Aerospace and Electronic Systems, 1999, 35, 1466-1470.	4.7	5
63	A Switched-Current Sensing Architecture for a Four-State per Cell Magnetic Tunnel Junction MRAM. IEEE Transactions on Circuits and Systems Part 1: Regular Papers, 2004, 51, 2113-2122.	0.1	5
64	Index assignment for scalar quantization with M-ary phase shift keying. , 2005, , .		5
65	Low complexity iterative decoding for bit-interleaved coded modulation. IEEE Transactions on Wireless Communications, 2006, 5, 1966-1970.	9.2	5
66	Efficient decoding over power-line channels. , 2011, , .		5
67	Wireless (Physical Layer) Network Coding With Limited Hierarchical Side Information: Maximal Sum-Rates in 5-Node Butterfly Network. IEEE Transactions on Wireless Communications, 2014, 13, 5582-5595.	9.2	5
68	Optimal sequence sets meeting Welch's lower bound. , 0, , .		4
69	Improved lower bound for quasi-complementary sequence set. , 2011, , .		4
70	Optimal lattices for MIMO precoding. , 2011, , .		4
71	Hypertrellis: A Generalization of Trellis and Factor Graph. The IMA Volumes in Mathematics and Its Applications, 2001, , 167-194.	0.5	4
72	A New Search for Optimal Binary Arrays with Minimum Peak Sidelobe Levels. Lecture Notes in Computer Science, 2005, , 355-360.	1.3	3

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73	Some New Results on Recursive Convolutional Codes and Their Applications. , 2006, , .		3
74	A Novel Near Maximum Likelihood Detection Scheme for Wireless MIMO Systems. , 2006, , .		3
75	Realizing Wireless Cooperative Communications with the One-Bit Soft Forwarding Technique. , 2009, , .		3
76	Efficient Ranking of Rate-Compatible Puncturing Patterns for a Given LDPC Code Matrix. , 2009, , .		3
77	Scalar Quantizers with Uniform Encoders and Channel-Optimized Decoders for M-PSK Schemes. , 2010, , .		3
78	A Markov error modeling approach to distributed turbo coding. , 2015, , .		3
79	Near-Maximum-Likelihood Decoding for Convolutionally Coded Physical-Layer Network Coding Over the Full-Duplex Two-Way Relay Channel. IEEE Transactions on Vehicular Technology, 2018, 67, 8944-8948.	6.3	3
80	A New Importance Sampling Algorithm for Fast Simulation of Linear Block Codes over BSCs. , 2019, , .		3
81	A Learning Approach to Cooperative Communication System Design. , 2020, , .		3
82	Serial JEVA for efficient decoding in impulsive noise channels. , 2003, , .		2
83	A minimum distance analysis of a certain class of two dimensional ISI channels. , 2008, , .		2
84	A general framework for MIMO transceiver design with imperfect CSI and transmit correlation. , 2009, , .		2
85	Constructing Rate-Compatible LDPC Codes with a Novel Efficient Ranking Criterion. , 2010, , .		2
86	Efficient LDLC Decoder Design from the Lattice Viewpoint. , 2019, , .		2
87	Near-Optimal Nonbinary Index Assignment for Equiprobable Uniform Quantizers and M-PSK Transmission. , 2020, , .		2
88	Low complexity OFDM receiver using Log-FFT for coded OFDM system. , 0, , .		1
89	Performance study of OFDM receiver using FFT based on log number system. , 0, , .		1
90	A class of switching turbo decoders against severe SNR mismatch. , 0, , .		1

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91	Searching for the best biphasic and quadriphasic quasi-Barker sequences. , 2004, , .		1
92	Bit-interleaved coded modulation with noncoherent iterative decoding for multiple antenna systems. , 2004, , .		1
93	Differential lattice decoding in noncoherent MIMO communication. , 0, , .		1
94	A modified state reduction algorithm for computing weight enumerators for convolutional codes. , 2005, , .		1
95	Hypergraph: an alternative graphical model for computing transfer functions in circuits and systems. , 0, , .		1
96	Soft-Decoding SOM for VQ Over Wireless Channels. Neural Processing Letters, 2006, 24, 179-192.	3.2	1
97	On Accelerating the Computation of Weight Enumerators for Convolutional Codes. IEEE Transactions on Wireless Communications, 2008, 7, 2009-2014.	9.2	1
98	Minimum Distance Analysis of a Certain Class of 2-D ISI Channels. IEEE Transactions on Information Theory, 2012, 58, 878-887.	2.4	1
99	Bounds on the expected rank of sparse linear operator channel matrices. , 2013, , .		1
100	Efficient compute-and-forward design with low communication overhead. , 2016, , .		1
101	A frequency-domain approach to tightening the generalized levenshtein bound. , 2017, , .		1
102	Joint Channel-Network Decoding for Asynchronous Physical-Layer Network Coding. , 2018, , .		1
103	Near-optimal Detector for SWIPT-enabled Differential DF Relay Networks with SER Analysis. , 2020, , .		1
104	SER Analysis for SWIPT-Enabled Differential Decode-and-Forward Relay Networks. IEEE Transactions on Green Communications and Networking, 2021, 5, 348-361.	5.5	1
105	Multiuser coding based on detecting matrices for Synchronous-CDMA systems. Lecture Notes in Computer Science, 1997, , 251-257.	1.3	1
106	Extended Shannon's inequality and the asymptotic capacity of T-user binary adder channel. , 0, , .		0
107	Even-odd transformation with application to multi-user CW radars. , 0, , .		0
108	A tight upper bound on discrete entropy. , 0, , .		0

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109	Optimal two-user biphasic pulse compression codes with minimum peak sidelobe. , 0, , .		0
110	Generalized even-odd transforms and correlation lower bounds for M-PSK/CDMA sequences. , 0, , .		0
111	A reflection on the conventional formulations of correlation lower bounds for M-PSK/CDMA sequences. , 0, , .		0
112	Analog integrated circuit design of a hypertext decoder. , 0, , .		0
113	Joint erasure marking and viterbi algorithm for detecting impulsive noise corrupted signals. , 2003, , .		0
114	On reducing the average complexity of turbo decoding with application to W-CDMA. , 0, , .		0
115	High-Sensitivity Switched-Current Sensing Circuit for Magnetic Tunnel Junction MRAM. , 0, , .		0
116	Threshold channel estimation for OFDM in wireless systems. , 0, , .		0
117	An effective stopping scheme for reduced-complexity iterative decoding of short-frame turbo codes. , 0, , .		0
118	Low-complexity multi-head detection for multi-track partial response and two-dimensional recording channels. , 2005, , .		0
119	A Simple and Effective Testing Method for the Implementation of Turbo Decoders. , 2010, , .		0
120	On the maximum imbalance of binary sequences with low aperiodic autocorrelations. , 2011, , .		0
121	Optimized metric clipping decoder design for impulsive noise channels at high signal-to-noise ratios. , 2015, , .		0
122	List-output priority-first sequential decoding for physical-layer network coding. , 2016, , .		0
123	An extended Tanner graph approach to decoding LDPC codes over decode-and-forward relay channels. , 2016, , .		0
124	On the minimum subspace coding capacity of multiplicative finite-field matrix channels with a given rank distribution. , 2016, , .		0
125	Editorial: Special issue on sequences and their applications 2018. Cryptography and Communications, 2020, 12, 321-323.	1.4	0
126	Bent Functions and Codes with Low Peak-to-Average Power Ratio for Multi-Code CDMA. , 2007, , 60-71.		0

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127	Asymptotically Tight MLD Bounds and Minimum-Variance Importance Sampling Estimator for Linear Block Codes Over BSCs. IEEE Access, 2022, 10, 64785-64800.	4.2	0