

# Kazunori Hayashi

## List of Publications by Year in descending order

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85  
papers

1,049  
citations

623188

14  
h-index

454577

30  
g-index

85  
all docs

85  
docs citations

85  
times ranked

840  
citing authors

#	ARTICLE	IF	CITATIONS
1	Long-Haul WDM/SDM Transmission Over Coupled 4-Core Fiber With Coupled 4-Core EDFA and Its Mode Dependent Loss Characteristics Estimation. Journal of Lightwave Technology, 2022, 40, 1664-1671.	2.7	15
2	An Acceleration Method of Sparse Diffusion LMS based on Message Propagation. IEICE Transactions on Communications, 2021, E104.B, 141-148.	0.4	0
3	Time Sensitive Networking for 5G NR Fronthauls and Massive IoT Traffic. Journal of Lightwave Technology, 2021, 39, 5336-5343.	2.7	6
4	Adaptive multi-layer filters incorporated with Volterra filters for impairment compensation including transmitter and receiver nonlinearity. Optics Express, 2021, 29, 28366.	1.7	0
5	Long-Haul WDM/SDM Transmission over Coupled 4-Core Fiber with Coupled 4-Core EDFA and Its MDL Characteristics Estimation. , 2021, , .		3
6	A Frequency Domain Direction of Arrival Estimation Algorithm for UAV Remote-control Signal. , 2021, , .		1
7	Asymptotic Performance of Discrete-Valued Vector Reconstruction via Box-Constrained Optimization With Sum of $\ell_1$ Regularizers. IEEE Transactions on Signal Processing, 2020, 68, 4320-4335.	3.2	8
8	Discreteness and group sparsity aware detection for uplink overloaded MU-MIMO systems. APSIPA Transactions on Signal and Information Processing, 2020, 9, .	2.6	0
9	Adaptive equalization of transmitter and receiver IQ skew by multi-layer linear and widely linear filters with deep unfolding. Optics Express, 2020, 28, 23478.	1.7	12
10	Deep Learning-Aided Projected Gradient Detector for Massive Overloaded MIMO Channels. , 2019, , .		21
11	Performance Analysis of Discrete-valued Vector Reconstruction Based on Box-constrained Sum of L1 Regularizers. , 2019, , .		1
12	Diffusion LMS Based on Message Passing Algorithm. IEEE Access, 2019, 7, 47022-47033.	2.6	3
13	Trainable Projected Gradient Detector for Massive Overloaded MIMO Channels: Data-Driven Tuning Approach. IEEE Access, 2019, 7, 93326-93338.	2.6	44
14	Evaluation of full-field energy dispersive X-ray fluorescence imaging apparatus and super resolution analysis with compressed sensing technique. X-Ray Spectrometry, 2019, 48, 644-650.	0.9	14
15	An Overloaded SC-CP IoT Signal Detection Method via Sparse Complex Discrete-Valued Vector Reconstruction. , 2019, , .		1
16	Resource Allocation for Robust Stabilization of Foschini-Miljanic Algorithm. , 2019, , .		0
17	Discrete-Valued Vector Reconstruction by Optimization with Sum of Sparse Regularizers. , 2019, , .		1
18	Self-Interference Suppression Based on Sampled-Data H8 Control for Baseband Signal Subspaces. SICE Journal of Control Measurement and System Integration, 2019, 12, 182-189.	0.4	0

#	ARTICLE	IF	CITATIONS
19	1. Fundamentals of Compressed Sensing and its Applications to Wireless Communications. Kyokai Joho Imeji Zasshi/Journal of the Institute of Image Information and Television Engineers, 2019, 73, 431-438.	0.0	0
20	An Optimized Link Layer Design for Communication-Based Train Control Systems Using WLAN. IEEE Access, 2018, 6, 6865-6877.	2.6	3
21	Uplink Overloaded MU-MIMO OFDM Signal Detection Methods using Convex Optimization. , 2018, , .		4
22	Discreteness-Aware Approximate Message Passing for Discrete-Valued Vector Reconstruction. IEEE Transactions on Signal Processing, 2018, 66, 6443-6457.	3.2	10
23	An Adaptive Combination Rule for Diffusion LMS Based on Consensus Propagation. , 2018, , .		4
24	Reconstruction of Complex Discrete-Valued Vector via Convex Optimization With Sparse Regularizers. IEEE Access, 2018, 6, 66499-66512.	2.6	16
25	A DOA Estimation Method With Kronecker Subspace for Coherent Signals. IEEE Communications Letters, 2018, 22, 2306-2309.	2.5	7
26	Distributed Approximate Message Passing with Summation Propagation. , 2018, , .		4
27	Discreteness-Aware Decoding for Overloaded Non-Orthogonal STBCs via Convex Optimization. IEEE Communications Letters, 2018, 22, 2080-2083.	2.5	4
28	Distributed Resource Allocation With Local CSI Overhearing and Scheduling Prediction for OFDMA Heterogeneous Networks. IEEE Transactions on Vehicular Technology, 2017, 66, 1186-1199.	3.9	15
29	Multiuser Detection Based on MAP Estimation With Sum-of-Absolute-Values Relaxation. IEEE Transactions on Signal Processing, 2017, 65, 5621-5634.	3.2	14
30	Convex Optimization-Based Signal Detection for Massive Overloaded MIMO Systems. IEEE Transactions on Wireless Communications, 2017, 16, 7080-7091.	6.1	36
31	Discreteness-aware AMP for reconstruction of symmetrically distributed discrete variables. , 2017, , .		6
32	A new pool control method for Boolean compressed sensing based adaptive group testing. , 2017, , .		0
33	Dynamic ICIC for Post-Scheduling Outage Probability Minimization in Small Cell Networks. , 2017, , .		0
34	Diffusion LMS using consensus propagation. , 2017, , .		2
35	Binary vector reconstruction via discreteness-aware approximate message passing. , 2017, , .		4
36	Error Recovery for Massive MIMO Signal Detection via Reconstruction of Discrete-Valued Sparse Vector. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2017, E100.A, 2671-2679.	0.2	7

#	ARTICLE	IF	CITATIONS
37	Massive overloaded MIMO signal detection via convex optimization with proximal splitting. , 2016, , .		14
38	Multiuser detection by MAP estimation with sum-of-absolute-values relaxation. , 2016, , .		5
39	An RFID tag identification protocol via Boolean compressed sensing. IEICE Communications Express, 2016, 5, 118-123.	0.2	0
40	Symbol Detection for Faster-Than-Nyquist Signaling by Sum-of-Absolute-Values Optimization. IEEE Signal Processing Letters, 2016, 23, 1853-1857.	2.1	14
41	Self-Organized Inter-Cell Interference Coordination Based on Partial CSI Sharing in Heterogeneous Networks Employing Cell Range Expansion. IEICE Transactions on Communications, 2016, E99.B, 1780-1788.	0.4	1
42	Time-Domain Equalization for Single-Frequency Full-Duplex Wireless Relay Using $\mathcal{H}_2$ Optimal Control. Proceedings of the ISCTE International Symposium on Stochastic Systems Theory and Its Applications, 2016, 2016, 12-15.	0.1	0
43	Lattice Reduction-Aided Detection for Overloaded MIMO Using Slab Decoding. IEICE Transactions on Communications, 2016, E99.B, 1697-1705.	0.4	20
44	Direction-of-Arrival Estimation of Narrowband Waves. ieice Ess Fundamentals Review, 2015, 8, 143-150.	0.1	2
45	An overloaded MIMO signal detection scheme with slab decoding and lattice reduction. , 2015, , .		6
46	Pool size control for adaptive group testing via boolean compressed sensing with solution space reduction. , 2015, , .		4
47	Self-organized resource allocation based on CSI overhearing in heterogeneous networks employing cell range expansion. , 2015, , .		3
48	Fairness-Aware Non-Orthogonal Multi-User Access With Discrete Hierarchical Modulation for 5G Cellular Relay Networks. IEEE Access, 2015, 3, 2922-2938.	2.6	15
49	Digital Cancellation of Self-Interference for Single-Frequency Full-Duplex Relay Stations via Sampled-Data Control. SICE Journal of Control Measurement and System Integration, 2015, 8, 321-327.	0.4	4
50	Sampled-data $\mathcal{H}_2$ design of couplingwave cancelers in single-frequency full-duplex relay stations. , 2014, , .		2
51	Compressed Sensing-Based Tag Identification Protocol for a Passive RFID System. IEEE Communications Letters, 2014, 18, 2023-2026.	2.5	9
52	Compressed sensing based channel estimation for uplink OFDMA systems. , 2014, , .		2
53	Superposition Coding Based User Combining Schemes for Non-Orthogonal Scheduling in a Wireless Relay System. IEEE Transactions on Wireless Communications, 2014, 13, 3232-3243.	6.1	6
54	Proportional fair scheduling with superposition coding in a cellular cooperative relay system. Annales Des Telecommunications/Annals of Telecommunications, 2013, 68, 525-537.	1.6	42

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55	Maximum Likelihood Approach for RFID Tag Set Cardinality Estimation with Detection Errors. <i>Wireless Personal Communications</i> , 2013, 71, 2587-2603.	1.8	3
56	Probabilistic Dynamic Framed Slotted ALOHA for RFID Tag Identification. <i>Wireless Personal Communications</i> , 2013, 71, 2947-2963.	1.8	14
57	Adaptive hierarchical modulation and power allocation for superposition-coded relaying. <i>Eurasip Journal on Wireless Communications and Networking</i> , 2013, 2013, .	1.5	4
58	Interference Mitigation Based on Partial CSI Feedback and Overhearing in an OFDMA Heterogeneous System. , 2013, , .		9
59	A User's Guide to Compressed Sensing for Communications Systems. <i>IEICE Transactions on Communications</i> , 2013, E96.B, 685-712.	0.4	185
60	Maximum Likelihood Approach for RFID Tag Cardinality Estimation under Capture Effect and Detection Errors. <i>IEICE Transactions on Communications</i> , 2013, E96.B, 1122-1129.	0.4	9
61	Compressive Sampling for Remote Control Systems. <i>IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences</i> , 2012, E95.A, 713-722.	0.2	14
62	Compressive sampling for networked feedback control. , 2012, , .		11
63	Downlink power allocation with CSI overhearing in an OFDMA macrocell/femtocell coexisting system. , 2012, , .		11
64	Rational maps and maximum likelihood decodings. <i>Japan Journal of Industrial and Applied Mathematics</i> , 2012, 29, 37-62.	0.5	0
65	Uplink Contention-Based CSI Feedback with Prioritized Layers for a Multi-Carrier System. <i>IEEE Transactions on Wireless Communications</i> , 2011, 10, 4282-4293.	6.1	0
66	Sum Rate Maximizing Superposition Coding Scheme for a Two-User Wireless Relay System. <i>IEEE Communications Letters</i> , 2011, 15, 428-430.	2.5	6
67	Link Quality Classifier with Compressed Sensing Based on $\ell_1$ - $\ell_2$ Optimization. <i>IEEE Communications Letters</i> , 2011, 15, 1117-1119.	2.5	24
68	Meyer's-Vietoris sequences and coverage problems in sensor networks. <i>Japan Journal of Industrial and Applied Mathematics</i> , 2011, 28, 237-250.	0.5	101
69	Superposition Coding Scheme with Discrete Adaptive Modulation for Wireless Relay Systems. , 2011, , .		2
70	Fairness-Aware Superposition Coded Scheduling for a Multi-User Cooperative Cellular System. <i>IEICE Transactions on Communications</i> , 2011, E94-B, 3272-3279.	0.4	5
71	Marginalized Particle Filter for Blind Signal Detection with Analog Imperfections. <i>IEICE Transactions on Communications</i> , 2010, E93-B, 336-344.	0.4	5
72	Systematic design of single carrier overlap frequency domain equalization. <i>Journal of Systems Science and Complexity</i> , 2010, 23, 50-60.	1.6	2

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73	Superposition Coding Based Wireless Network Coding Scheme for Two-Way Cooperative Relaying. IEICE Transactions on Communications, 2010, E93-B, 3354-3361.	0.4	1
74	Uplink Random Access Scheme with Prioritized Orthogonal Layers for OFDMA CSI Feedback. , 2009, , .		1
75	Throughput-Guaranteed Resource-Allocation Algorithms for Relay-Aided Cellular OFDMA System. IEEE Transactions on Vehicular Technology, 2009, 58, 1951-1964.	3.9	80
76	Power distribution methods for MIMO-OFDM systems and field experimentations. Wireless Communications and Mobile Computing, 2009, 9, 1618-1628.	0.8	1
77	Analysis and Compensation of Transmitter IQ Imbalances in OFDMA and SC-FDMA Systems. IEEE Transactions on Signal Processing, 2009, 57, 3119-3129.	3.2	53
78	Amplify-and-Forward Cooperative Diversity Schemes for Multi-Carrier Systems. IEEE Transactions on Wireless Communications, 2008, 7, 1845-1850.	6.1	54
79	Combined Frequency and Spatial Domains Power Distribution for MIMO-OFDM Transmission. , 2007, , .		2
80	Interference Cancellation Schemes for Single-Carrier Block Transmission with Insufficient Cyclic Prefix. Eurasip Journal on Wireless Communications and Networking, 2007, 2008, , .	1.5	9
81	A Simple Adaptive Filter Method for Cancellation of Coupling Wave in OFDM Signals at SFN Relay Station. Proceedings of the ISCIE International Symposium on Stochastic Systems Theory and Its Applications, 2007, 2007, 124-128.	0.1	3
82	New Paradigms in Wireless Communication Systems. Wireless Personal Communications, 2006, 37, 233-241.	1.8	10
83	Frequency Domain Power Adaptation Scheme for Multi-Carrier Systems. , 2006, , .		3
84	An adaptive antenna array for single carrier modulation with cyclic prefix. Electronics and Communications in Japan, 2005, 88, 38-48.	0.1	3
85	A new spatio-temporal equalization method based on estimated channel response. IEEE Transactions on Vehicular Technology, 2001, 50, 1250-1259.	3.9	9