

# Takumi Takahashi

## List of Publications by Year in descending order

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17  
papers

115  
citations

1684188

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1872680

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docs citations

17  
times ranked

34  
citing authors

#	ARTICLE	IF	CITATIONS
1	Low-Complexity Large MIMO Detection via Layered Belief Propagation in Beam Domain. IEEE Transactions on Wireless Communications, 2022, 21, 234-249.	9.2	10
2	Receive Beamforming for Gaussian Belief Propagation in Massive Multi-user MIMO for Reducing Fronthaul Bandwidth. , 2022, , .		1
3	Iterative Carrier Frequency Offset Estimation with Independent Component Analysis in BLE Systems. IEICE Transactions on Communications, 2021, E104.B, 88-98.	0.7	0
4	Grant-Free Access via Bilinear Inference for Cell-Free MIMO With Low-Coherence Pilots. IEEE Transactions on Wireless Communications, 2021, 20, 7694-7710.	9.2	16
5	Uplink Signal Detection for Scalable Cell-Free Massive MIMO Systems With Robustness to Rate-Limited Fronthaul. IEEE Access, 2021, 9, 102770-102782.	4.2	11
6	Bayesian Joint Channel and Data Estimation for Correlated Large MIMO with Non-orthogonal Pilots. , 2021, , .		1
7	A Study on Conversion of NLoS to LoS conditions using Sidelink in Smart Factory Environments. , 2021, , .		3
8	Negentropy-Aware Loss Function for Trainable Belief Propagation in Coded MIMO Detection. , 2021, , .		1
9	Information-Optimum Approximate Message Passing for Quantized Massive MIMO Detection. IEEE Access, 2020, 8, 200383-200394.	4.2	2
10	Bilinear Gaussian Belief Propagation for Large MIMO Channel and Data Estimation. , 2020, , .		7
11	A Study on Replica Generation Using LUT Based on Information Bottleneck for MF-GaBP in Massive MIMO Detection. , 2019, , .		5
12	Concatenated Beam- and Antenna-domain Layered Belief Propagation for Large MIMO Detection. , 2019, , .		1
13	Design of Adaptively Scaled Belief in Multi-Dimensional Signal Detection for Higher-Order Modulation. IEEE Transactions on Communications, 2019, 67, 1986-2001.	7.8	30
14	Design of Criterion for Adaptively Scaled Belief in Iterative Large MIMO Detection. IEICE Transactions on Communications, 2019, E102.B, 285-297.	0.7	15
15	Iterative Decoding Based on Concatenated Belief Propagation for CRC-Aided Polar Codes. , 2018, , .		6
16	Structured Random Codebook Design for GABP Iterative Detection in Massive SCMA. , 2018, , .		2
17	Criterion of adaptively scaled belief for PDA in overloaded MIMO channels. , 2017, , .		4