Brian M Kurkoski

List of Publications by Year
in descending order

23 papers	168 citations	1478505 6 h-index	1372567 10 g-index
23 all docs	23 docs citations	23 times ranked	103 citing authors

#	Article	IF	Citations
1	LDPC Decoding Mappings That Maximize Mutual Information. IEEE Journal on Selected Areas in Communications, 2016, 34, 2391-2401.	14.0	50
2	Decoding LDPC codes with mutual information-maximizing lookup tables. , 2015, , .		18
3	Power-constrained communications using LDLC lattices. , 2009, , .		15
4	Memory AMP. IEEE Transactions on Information Theory, 2022, 68, 8015-8039.	2.4	14
5	Low-Dimensional Shaping for High-Dimensional Lattice Codes. IEEE Transactions on Wireless Communications, 2016, 15, 7405-7418.	9.2	11
6	On the relation between the asymptotic performance of different algorithms for information bottleneck framework. , 2017, , .		11
7	Encoding and Indexing of Lattice Codes. IEEE Transactions on Information Theory, 2018, 64, 6320-6332.	2.4	11
8	Shaping low-density lattice codes using Voronoi integers. , 2014, , .		8
9	The Three/Two Gaussian Parametric LDLC Lattice Decoding Algorithm and Its Analysis. IEEE Transactions on Communications, 2016, 64, 3624-3633.	7.8	8
10	Shaping LDLC Lattices Using Convolutional Code Lattices. IEEE Communications Letters, 2017, 21, 730-733.	4.1	6
11	WOM codes reduce write amplification in NAND flash memory. , 2012, , .		2
12	MMSE scaling enhances performance in practical lattice codes. , 2014, , .		2
13	Construction Dâ€² Lattices from Quasi-Cyclic Low-Density Parity-Check Codes. , 2018, , .		2
14	Steepest Gradient-Based Orthogonal Precoder for Integer-Forcing MIMO. IEEE Transactions on Wireless Communications, 2020, 19, 942-955.	9.2	2
15	Applying Write-Once Memory Codes to Binary Symmetric Asymmetric Multiple Access Channels. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2016, E99.A, 2202-2210.	0.3	2
16	Shaping Gain of Lattices Based on Convolutional Codes and Construction A. , 2018, , .		1
17	A Design of Overlapped Chunked Code over Compute-and-Forward in Multi-Source Multi-Relay Networks. , 2018, , .		1
18	A Design of Overlapped Chunked Code over Compute-and-Forward for Multi-Source Multi-Relay Networks. Sensors, 2018, 18, 3225.	3.8	1

#	Article	IF	Citations
19	Orthogonal Precoder for Integer-Forcing MIMO. , 2019, , .		1
20	Encoding and Decoding Construction D' Lattices for Power-Constrained Communications. , 2021, , .		1
21	Construction Dâ€™ Lattices for Power-Constrained Communications. IEEE Transactions on Communications, 2022, 70, 2200-2212.	7.8	1
22	The three/two Gaussian parametric LDLC decoder. , 2015, , .		0
23	An Efficient Strategy for Applying Compute-and-Forward to the MARC. , 2018, , .		0