

# Dmitri Truhachev

## List of Publications by Year in descending order

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37  
papers

432  
citations

933447

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h-index

839539

18  
g-index

37  
all docs

37  
docs citations

37  
times ranked

195  
citing authors

#	ARTICLE	IF	CITATIONS
1	Braided Block Codes. IEEE Transactions on Information Theory, 2009, 55, 2640-2658.	2.4	64
2	Distance Bounds for an Ensemble of LDPC Convolutional Codes. IEEE Transactions on Information Theory, 2007, 53, 4537-4555.	2.4	38
3	A Two-Stage Capacity-Achieving Demodulation/Decoding Method for Random Matrix Channels. IEEE Transactions on Information Theory, 2009, 55, 136-146.	2.4	30
4	Multiple Access Demodulation in the Lifted Signal Graph With Spatial Coupling. IEEE Transactions on Information Theory, 2013, 59, 2459-2470.	2.4	29
5	Distance Bounds for Periodically Time-Varying and Tail-Biting LDPC Convolutional Codes. IEEE Transactions on Information Theory, 2010, 56, 4301-4308.	2.4	20
6	Multiple access demodulation in the lifted signal graph with spatial coupling. , 2011, , .		20
7	Universal multiple access via spatially coupling data transmission. , 2013, , .		20
8	New codes on graphs constructed by connecting spatially coupled chains. , 2012, , .		17
9	Achieving AWGN Multiple Access Channel Capacity with Spatial Graph Coupling. IEEE Communications Letters, 2012, 16, 585-588.	4.1	16
10	Code Design Based on Connecting Spatially Coupled Graph Chains. IEEE Transactions on Information Theory, 2019, 65, 5604-5617.	2.4	16
11	Generalized Superposition Modulation and Iterative Demodulation: A Capacity Investigation. Journal of Electrical and Computer Engineering, 2010, 2010, 1-9.	0.9	14
12	Low-Complexity Coding and Spreading for Unsourced Random Access. IEEE Communications Letters, 2021, 25, 774-778.	4.1	14
13	Low-Complexity Capacity Achieving Two-Stage Demodulation/Decoding for Random Matrix Channels. , 2007, , .		13
14	Spatially Coupled Split-Component Codes With Iterative Algebraic Decoding. IEEE Transactions on Information Theory, 2018, 64, 205-224.	2.4	12
15	Connecting spatially coupled LDPC code chains. , 2012, , .		10
16	Improving spatially coupled LDPC codes by connecting chains. , 2012, , .		9
17	Continuous Transmission of Spatially Coupled LDPC Code Chains. IEEE Transactions on Communications, 2017, 65, 5097-5109.	7.8	9
18	Unsourced Random Access Over Fading Channels via Data Repetition, Permutation, and Scrambling. IEEE Transactions on Communications, 2022, 70, 1029-1042.	7.8	9

#	ARTICLE	IF	CITATIONS
19	Two-stage detection of partitioned random CDMA. European Transactions on Telecommunications, 2008, 19, 499-509.	1.2	8
20	A finite length performance analysis of LDPC codes constructed by connecting spatially coupled chains. , 2013, , .		7
21	BATS Coding for Underwater Acoustic Communication Networks. , 2019, , .		7
22	Modeling of Underwater Acoustic Channels for Communication System Testing. , 2018, , .		6
23	Coupling Data Transmission for Multiple-Access Communications. IEEE Transactions on Information Theory, 2019, 65, 4550-4574.	2.4	6
24	Efficient Implementation of 400 Gbps Optical Communication FEC. IEEE Transactions on Circuits and Systems I: Regular Papers, 2021, 68, 496-509.	5.4	6
25	Area- and Power-Efficient Staircase Encoder Implementation for High-Throughput Fiber-Optical Communications. IEEE Transactions on Very Large Scale Integration (VLSI) Systems, 2020, 28, 843-847.	3.1	5
26	Generalized Modulation and Iterative Demodulation. , 2008, , .		4
27	Decoding analysis accounting for mis-corrections for spatially-coupled split-component codes. , 2016, , .		4
28	Coupling Information Transmission With Approximate Message-Passing. IEEE Communications Letters, 2016, 20, 1995-1998.	4.1	4
29	Impact of traffic localization on communication rates in ad-hoc networks. Wireless Networks, 2010, 16, 497-510.	3.0	3
30	Kalman Forward-Backward Channel Tracking and Combining for OFDM in Underwater Acoustic Channels. , 2018, , .		3
31	Coupling Information Transmission With Window Decoding. IEEE Wireless Communications Letters, 2019, 8, 560-563.	5.0	2
32	Memory Optimized Hardware Implementation of Open FEC Encoder. IEEE Transactions on Very Large Scale Integration (VLSI) Systems, 2022, 30, 1548-1552.	3.1	2
33	Packet acquisition for spatially coupling information transmission. , 2014, , .		1
34	Joint packet detection and decoding for maritime data exchange systems. , 2015, , .		1
35	Improving the Quality of Underwater Acoustic Channel via Beamforming. , 2018, , .		1
36	Self-Coupling Data Transmission for Random Multiple Access Communications. IEEE Communications Letters, 2020, 24, 1168-1172.	4.1	1

#	ARTICLE	IF	CITATIONS
37	A Blind Background Calibration Technique for Super-Regenerative Receivers. IEEE Transactions on Circuits and Systems II: Express Briefs, 2022, 69, 344-348.	3.0	1