

# Olgica Milenkovic

## List of Publications by Year in descending order

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69  
papers

3,623  
citations

331670

21  
h-index

302126

39  
g-index

71  
all docs

71  
docs citations

71  
times ranked

2850  
citing authors

#	ARTICLE	IF	CITATIONS
1	Self-assembled microtubular electrodes for on-chip low-voltage electrophoretic manipulation of charged particles and macromolecules. <i>Microsystems and Nanoengineering</i> , 2022, 8, 27.	7.0	9
2	Expanding the Molecular Alphabet of DNA-Based Data Storage Systems with Neural Network Nanopore Readout Processing. <i>Nano Letters</i> , 2022, 22, 1905-1914.	9.1	18
3	Rewritable two-dimensional DNA-based data storage with machine learning reconstruction. <i>Nature Communications</i> , 2022, 13, .	12.8	16
4	Guest Editorial Special Issue: "From Deletion-Correction to Graph Reconstruction: In Memory of Vladimir I. Levenshtein". <i>IEEE Transactions on Information Theory</i> , 2021, 67, 3187-3189.	2.4	1
5	Repairing Reed-Solomon Codes via Subspace Polynomials. <i>IEEE Transactions on Information Theory</i> , 2021, 67, 6395-6407.	2.4	6
6	Interaction dynamics and site-specific electronic recognition of DNA-nicks with 2D solid-state nanopores. <i>Npj 2D Materials and Applications</i> , 2020, 4, .	7.9	9
7	Coded Trace Reconstruction. <i>IEEE Transactions on Information Theory</i> , 2020, 66, 6084-6103.	2.4	42
8	Image Processing in DNA. , 2020, , .		8
9	Multi-MotifGAN (MMGAN): Motif-Targeted Graph Generation And Prediction. , 2020, , .		6
10	DNA punch cards for storing data on native DNA sequences via enzymatic nicking. <i>Nature Communications</i> , 2020, 11, 1742.	12.8	70
11	Access balancing in storage systems by labeling partial Steiner systems. <i>Designs, Codes, and Cryptography</i> , 2020, 88, 2361-2376.	1.6	10
12	Coded Trace Reconstruction. , 2019, , .		11
13	Directed Intersection Representations and the Information Content of Digraphs. , 2019, , .		2
14	Detecting topological variations of DNA at single-molecule level. <i>Nature Communications</i> , 2019, 10, 3.	12.8	59
15	Codes in the Damerau Distance for Deletion and Adjacent Transposition Correction. <i>IEEE Transactions on Information Theory</i> , 2018, 64, 2550-2570.	2.4	37
16	Mutually Uncorrelated Primers for DNA-Based Data Storage. <i>IEEE Transactions on Information Theory</i> , 2018, 64, 6283-6296.	2.4	38
17	Exabytes in a Test Tube. <i>IEEE Spectrum</i> , 2018, 55, 40-45.	0.7	12
18	METHCOMP: a special purpose compression platform for DNA methylation data. <i>Bioinformatics</i> , 2018, 34, 2654-2656.	4.1	4

#	ARTICLE	IF	CITATIONS
19	Repairing Reed-Solomon Codes With Multiple Erasures. IEEE Transactions on Information Theory, 2018, 64, 6567-6582.	2.4	43
20	Correlation Clustering and Biclustering With Locally Bounded Errors. IEEE Transactions on Information Theory, 2018, 64, 4105-4119.	2.4	15
21	Asymmetric Lee Distance Codes for DNA-Based Storage. IEEE Transactions on Information Theory, 2017, 63, 4982-4995.	2.4	35
22	Portable and Error-Free DNA-Based Data Storage. Scientific Reports, 2017, 7, 5011.	3.3	222
23	Optimal repair schemes for some families of full-length reed-solomon codes. , 2017, , .		29
24	Repairing reed-solomon codes with two erasures. , 2017, , .		15
25	Coding in 2D: Using Intentional Dispersity to Enhance the Information Capacity of Sequenceâ€Coded Polymer Barcodes. Angewandte Chemie, 2016, 128, 10880-10883.	2.0	18
26	Coding in 2D: Using Intentional Dispersity to Enhance the Information Capacity of Sequenceâ€Coded Polymer Barcodes. Angewandte Chemie - International Edition, 2016, 55, 10722-10725.	13.8	67
27	A new correlation clustering method for cancer mutation analysis. Bioinformatics, 2016, 32, 3717-3728.	4.1	15
28	MetaCRAM: an integrated pipeline for metagenomic taxonomy identification and compression. BMC Bioinformatics, 2016, 17, 94.	2.6	12
29	A Rewritable, Random-Access DNA-Based Storage System. Scientific Reports, 2015, 5, 14138.	3.3	214
30	Compensating for sneak currents in multi-level crosspoint resistive memories. , 2015, , .		4
31	DNA-Based Storage: Trends and Methods. IEEE Transactions on Molecular, Biological, and Multi-Scale Communications, 2015, 1, 230-248.	2.1	157
32	HyDRA: gene prioritization via hybrid distance-score rank aggregation. Bioinformatics, 2015, 31, 1034-1043.	4.1	13
33	CaSPIAN: A Causal Compressive Sensing Algorithm for Discovering Directed Interactions in Gene Networks. PLoS ONE, 2014, 9, e90781.	2.5	24
34	Synchronizing rankings via interactive communication. , 2014, , .		3
35	Multipermutation codes in the Ulam metric. , 2014, , .		3
36	Poisson group testing: A probabilistic model for nonadaptive streaming boolean compressed sensing. , 2014, , .		16

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37	An Axiomatic Approach to Constructing Distances for Rank Comparison and Aggregation. IEEE Transactions on Information Theory, 2014, 60, 6417-6439.	2.4	17
38	Group testing for non-uniformly quantized adder channels. , 2014, , .		2
39	Error-Correction in Flash Memories via Codes in the Ulam Metric. IEEE Transactions on Information Theory, 2013, 59, 3003-3020.	2.4	62
40	MetaPar: Metagenomic sequence assembly via iterative reclassification. , 2013, , .		0
41	MCUIUC &#x2014; A new framework for metagenomic read compression. , 2013, , .		2
42	Weighted rank aggregation via relaxed integer programming. , 2013, , .		3
43	Alternating Markov chains for distribution estimation in the presence of errors. , 2012, , .		3
44	Rank modulation for translocation error correction. , 2012, , .		5
45	A Geometric Approach to Low-Rank Matrix Completion. IEEE Transactions on Information Theory, 2012, 58, 237-247.	2.4	36
46	Sorting of Permutations by Cost-Constrained Transpositions. IEEE Transactions on Information Theory, 2012, 58, 3-23.	2.4	14
47	Subspace Evolution and Transfer (SET) for Low-Rank Matrix Completion. IEEE Transactions on Signal Processing, 2011, 59, 3120-3132.	5.3	47
48	Information Theoretic Bounds for Tensor Rank Minimization over Finite Fields. , 2011, , .		3
49	Information Theoretical and Algorithmic Approaches to Quantized Compressive Sensing. IEEE Transactions on Communications, 2011, 59, 1857-1866.	7.8	62
50	Decomposing permutations via cost-constrained transpositions. , 2011, , .		1
51	Low-rank matrix completion with geometric performance guarantees. , 2011, , .		1
52	Multiple-bases belief-propagation decoding of high-density cyclic codes. IEEE Transactions on Communications, 2010, 58, 1-8.	7.8	32
53	On the Hardness of Approximating Stopping and Trapping Sets. IEEE Transactions on Information Theory, 2010, 56, 1640-1650.	2.4	46
54	SET: An algorithm for consistent matrix completion. , 2010, , .		30

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55	Compressive list-support recovery for colluder identification. , 2010, , .		1
56	Characterization of small trapping sets in LDPC codes from Steiner triple systems. , 2010, , .		10
57	The Trapping Redundancy of Linear Block Codes. IEEE Transactions on Information Theory, 2009, 55, 53-63.	2.4	23
58	Subspace Pursuit for Compressive Sensing Signal Reconstruction. IEEE Transactions on Information Theory, 2009, 55, 2230-2249.	2.4	1,793
59	Weighted Superimposed Codes and Constrained Integer Compressed Sensing. IEEE Transactions on Information Theory, 2009, 55, 2215-2229.	2.4	21
60	A comparative study of quantized compressive sensing schemes. , 2009, , .		22
61	Sublinear compressive sensing reconstruction via belief propagation decoding. , 2009, , .		22
62	Small-sample distribution estimation over sticky channels. , 2009, , .		9
63	Distortion-rate functions for quantized compressive sensing. , 2009, , .		55
64	Permutation Decoding and the Stopping Redundancy Hierarchy of Cyclic and Extended Cyclic Codes. IEEE Transactions on Information Theory, 2008, 54, 5308-5331.	2.4	24
65	Sparse weighted Euclidean superimposed coding for integer compressed sensing. , 2008, , .		1
66	Weighted Euclidean superimposed codes for integer compressed sensing. , 2008, , .		4
67	Sparse weighted Euclidean superimposed coding for integer compressed sensing. , 2008, , .		2
68	Superimposed coding for iterative detection of DNA microarray spot failures. , 2008, , .		2
69	Iterative subspace pursuit decoding of weighted euclidean superimposed codes. , 2008, , .		2