

# Yuriy S Polyakov

## List of Publications by Year in descending order

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49  
papers

944  
citations

471371

17  
h-index

477173

29  
g-index

49  
all docs

49  
docs citations

49  
times ranked

627  
citing authors

#	ARTICLE	IF	CITATIONS
1	Ultrafiltration membrane performance: Effects of pore blockage/constriction. Journal of Membrane Science, 2013, 434, 106-120.	4.1	107
2	An Improved RNS Variant of the BFV Homomorphic Encryption Scheme. Lecture Notes in Computer Science, 2019, , 83-105.	1.0	79
3	REVIEW OF FLICKER NOISE SPECTROSCOPY IN ELECTROCHEMISTRY. Fluctuation and Noise Letters, 2007, 07, R15-R47.	1.0	67
4	Secure large-scale genome-wide association studies using homomorphic encryption. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 11608-11613.	3.3	63
5	Implementation and Performance Evaluation of RNS Variants of the BFV Homomorphic Encryption Scheme. IEEE Transactions on Emerging Topics in Computing, 2021, 9, 941-956.	3.2	50
6	Analysis of cross-correlations in electroencephalogram signals as an approach to proactive diagnosis of schizophrenia. Physica A: Statistical Mechanics and Its Applications, 2012, 391, 1179-1194.	1.2	44
7	Fast Proxy Re-Encryption for Publish/Subscribe Systems. ACM Transactions on Privacy and Security, 2017, 20, 1-31.	2.2	43
8	Implementation and Evaluation of a Lattice-Based Key-Policy ABE Scheme. IEEE Transactions on Information Forensics and Security, 2018, 13, 1169-1184.	4.5	43
9	Anomalous diffusion as a stochastic component in the dynamics of complex processes. Physical Review E, 2010, 81, 041128.	0.8	32
10	PICADOR: End-to-end encrypted Publish&#x2013;Subscribe information distribution with proxy re-encryption. Future Generation Computer Systems, 2017, 71, 177-191.	4.9	31
11	Depth filtration approach to the theory of standard blocking: Prediction of membrane permeation rate and selectivity. Journal of Membrane Science, 2008, 322, 81-90.	4.1	30
12	Revisiting Homomorphic Encryption Schemes for Finite Fields. Lecture Notes in Computer Science, 2021, , 608-639.	1.0	27
13	Bootstrapping in FHEW-like Cryptosystems. , 2021, , .		26
14	Analysis of biomedical signals by flicker-noise spectroscopy: Identification of photosensitive epilepsy using magnetoencephalograms. Laser Physics, 2009, 19, 836-854.	0.6	24
15	Frequency and phase synchronization in neuromagnetic cortical responses to flickering-color stimuli. Laser Physics, 2010, 20, 604-617.	0.6	24
16	ANALYSIS OF DISCRETE SIGNALS WITH STOCHASTIC COMPONENTS USING FLICKER NOISE SPECTROSCOPY. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2008, 18, 2793-2797.	0.7	22
17	Practical Applications of Improved Gaussian Sampling for Trapdoor Lattices. IEEE Transactions on Computers, 2019, 68, 570-584.	2.4	20
18	Approximate Homomorphic Encryption with Reduced Approximation Error. Lecture Notes in Computer Science, 2022, , 120-144.	1.0	19

#	ARTICLE	IF	CITATIONS
19	RAMPARTS. , 2019, , .		17
20	Building an Efficient Lattice Gadget Toolkit: Subgaussian Sampling and More. Lecture Notes in Computer Science, 2019, , 655-684.	1.0	17
21	Optimized homomorphic encryption solution for secure genome-wide association studies. BMC Medical Genomics, 2020, 13, 83.	0.7	14
22	Particle deposition in outside-in hollow fiber filters and its effect on their performance. Journal of Membrane Science, 2006, 278, 190-198.	4.1	12
23	Implementation and Evaluation of Improved Gaussian Sampling for Lattice Trapdoors. , 2018, , .		12
24	Deadend outside-in hollow fiber membrane filter: Mathematical model. Journal of Membrane Science, 2006, 279, 615-624.	4.1	11
25	STOCHASTIC VARIABILITY IN X-RAY EMISSION FROM THE BLACK HOLE BINARY GRS 1915+105. Astronomical Journal, 2012, 143, 148.	1.9	11
26	Dynamics of stainless steel turning: Analysis by flicker-noise spectroscopy. Physica A: Statistical Mechanics and Its Applications, 2013, 392, 6052-6063.	1.2	11
27	A REVIEW OF FLICKER-NOISE SPECTROSCOPY: INFORMATION IN CHAOTIC SIGNALS. , 2008, , 270-285.		10
28	Analytical method for parameterizing the random profile components of nanosurfaces imaged by atomic force microscopy. Analyst, The, 2011, 136, 570-576.	1.7	10
29	Implementing Conjunction Obfuscation Under Entropic Ring LWE. , 2018, , .		10
30	Closed bioregenerative life support systems: Applicability to hot deserts. Advances in Space Research, 2010, 46, 775-786.	1.2	8
31	Approximate method for nonlinear differential and integrodifferential equations. AIChE Journal, 2006, 52, 3813-3824.	1.8	7
32	Cross-correlation earthquake precursors in the hydrogeochemical and geoacoustic signals for the Kamchatka peninsula. Acta Geophysica, 2012, 60, 874-893.	1.0	7
33	Practical implementations of program obfuscators for point functions. , 2016, , .		7
34	An end-to-end security architecture to collect, process and share wearable medical device data. , 2015, , .		6
35	Introduction to Homomorphic Encryption and Schemes. , 2021, , 3-28.		6
36	Hollow-fiber membrane adsorber: Mathematical model. Journal of Membrane Science, 2006, 280, 610-623.	4.1	5

#	ARTICLE	IF	CITATIONS
37	Building Applications with Homomorphic Encryption. , 2018, , .		4
38	Phenomenological theory of depth membrane filtration. Chemical Engineering Science, 2007, 62, 1851-1860.	1.9	3
39	Intrusion-Resilient Classifier Approximation: From Wildcard Matching to Range Membership. , 2018, , .		2
40	Closed bioregenerative life support systems: Applicability to hot deserts. Nature Precedings, 2010, , .	0.1	1
41	Securely Sharing Encrypted Medical Information. , 2016, , .		1
42	Closed bioregenerative life support systems: Applicability to hot deserts. Nature Precedings, 0, , .	0.1	1
43	Phenomenological analysis of medical time series with regular and stochastic components. , 2007, , .		0
44	Analysis of Antarctic Ice Core Data (EPICA Dome C) with Flicker-Noise Spectroscopy. Nature Precedings, 2009, , .	0.1	0
45	Anomalous diffusion in the dynamics of X-ray emission of astrophysical objects. , 2011, , .		0
46	Secure access delegation of encrypted medical information. , 2016, , .		0
47	Encrypted-Input Obfuscation of Image Classifiers. Lecture Notes in Computer Science, 2021, , 136-156.	1.0	0
48	Binary Division Attack for Elliptic Curve Discrete Logarithm Problem. Transactions on Networks and Communications, 2014, 2, .	0.2	0
49	Identifying Pairs of Terms with Strong Semantic Connections in a Textbook Index. , 2015, , .		0