

# Aleksey G Vostretsov

## List of Publications by Year in descending order

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59  
papers

110  
citations

1684188

5  
h-index

1474206

9  
g-index

59  
all docs

59  
docs citations

59  
times ranked

42  
citing authors

#	ARTICLE	IF	CITATIONS
1	Mechanical-electromagnetic transformations in rocks on failure. Journal of Mining Science, 2013, 49, 343-356.	0.6	14
2	A microwave cryogenic low-noise amplifier based on sige heterostructures. Technical Physics Letters, 2016, 42, 380-383.	0.7	14
3	Application of the invariance and robustness principles in the development of demodulation algorithms for wideband communications systems. Journal of Communications Technology and Electronics, 2009, 54, 1283-1291.	0.5	13
4	Prediction of rock failure from spectral characteristics of signals from electromagnetic radiation. Journal of Mining Science, 1998, 34, 296-299.	0.6	8
5	Spectroscopy of a superconducting flux qubit in a quasidispersive mode. JETP Letters, 2016, 103, 425-430.	1.4	5
6	Electromagnetic Signals during Static and Dynamic Loading of Rock Samples. Journal of Mining Science, 2002, 38, 20-24.	0.6	4
7	Detection of fracture stage change in rocks using nonstationary poisson pulse flow of electromagnetic emission. International Journal of Rock Mechanics and Minings Sciences, 2010, 47, 698-701.	5.8	4
8	CDMA robust demodulation algorithm in the presence of multiple access interference. , 2010, , .		4
9	Integrated measurement and recording of loads, displacements and electromagnetic emission in rocks under uniaxial compression. Journal of Mining Science, 2011, 47, 547-557.	0.6	4
10	Robust detection algorithm for future 4G wireless communication systems. , 2013, , .		4
11	A wideband cryogenic microwave low-noise amplifier. Beilstein Journal of Nanotechnology, 2020, 11, 1484-1491.	2.8	4
12	Cryogenic low-noise amplifiers for measurements with superconducting detectors. Beilstein Journal of Nanotechnology, 2020, 11, 1316-1320.	2.8	4
13	Asymptotically robust algorithms for detection and recognition of signals. , 2007, , .		3
14	Background Electromagnetic Rock Radiation Recorded in Underground Workings of the Tashtagol Mine. Journal of Mining Science, 2002, 38, 111-115.	0.6	2
15	Influence of Reflected Rays and Pulse Width on Probability of Error. , 2007, , .		2
16	Modernized Electromagnetic Emission Control System for Uniaxial Testing Of Rocks. Journal of Mining Science, 2010, 46, 458-467.	0.6	2
17	Effect of external pulsed low-energy impact on destruction of pre-loaded rock specimens. Journal of Mining Science, 2014, 50, 1033-1039.	0.6	2
18	Superconducting Josephson Junction Critical Current Estimation. , 2018, , .		2

#	ARTICLE	IF	CITATIONS
19	The Estimation of Parameters of Pulse Signals Having an Unknown Form That Are Observed against the Background of the Additive Mixture of the White Gaussian Noise and a Linear Component with Unknown Parameters. Journal of Communications Technology and Electronics, 2021, 66, 938-947.	0.5	2
20	The effect of time jitter in sampling inside discrete systems with high-stable synchronizing clock: models and analysis. , 0, , .		1
21	Signal processing in fading channels in conditions of a prior signal, channel and noise parameter uncertainty. , 0, , .		1
22	Multipath Channel Influence Upon Probability Characteristics of Communication Subsystems of Radio Short-Range Navigation Systems. , 2006, , .		1
23	The Influence of Wave Propagation Channel Properties on Error Probability. Siberian Russian Workshop and Tutorial on Electron Devices and Materials, 2007, , .	0.0	1
24	Robust wideband signal demodulation algorithms with hard decisions. , 2007, , .		1
25	EMR recording equipment for underground mines. Journal of Mining Science, 2008, 44, 218-224.	0.6	1
26	The synchronization problem in high velocity mobile systems with multipath fading. , 2008, , .		1
27	Asymptotically robust signal demodulation algorithms suppressing multiple access noise. Journal of Communications Technology and Electronics, 2010, 55, 893-899.	0.5	1
28	Instrumentation System for Synchronous Recording of EME and Mechanical Deformation Parameters in Lab-Scale Tests of Rock Specimens. Journal of Mining Science, 2017, 53, 1152-1158.	0.6	1
29	Influence of two-level defects on the transmission of a microwave signal in an open coplanar waveguide. Low Temperature Physics, 2019, 45, 395-399.	0.6	1
30	Cryogenic Low Noise Amplifiers and Filters for Superconducting Qubit Readout. , 2020, , .		1
31	Formation of Minimax Ensembles of Aperiodic Gold Codes. Journal of the Russian Universities Radioelectronics, 2020, 23, 26-37.	0.2	1
32	Bipolar Transistor DC LNA Characterization at 77 K. , 2021, , .		1
33	Estimation of signal power parameter under binary quantized samples. , 0, , .		0
34	Synthesis of parameters effective values for linear-varying signals under conditions of noise. , 0, , .		0
35	On Prediction of Rock Failure on the Basis of Recording the Pulses of Electromagnetic Radiation. Journal of Mining Science, 2001, 37, 261-272.	0.6	0
36	Signal period estimating in analog-digital systems. , 0, , .		0

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37	Some regularities in electromagnetic radiation signals in rock failure. , 0, , .		0
38	Structure of the electromagnetic radiation signal spectral characteristics during rock failure preparation. , 0, , .		0
39	Detection of Signals on the Background of a Gaussian Noise and Passive Interferences with Unknown Parameters. , 2005, , .		0
40	Asymptotically Invariant Optimal (AIO) Algorithm for Detection of a Signal with Selective Fading. , 2006, , .		0
41	On the Ways of Russian Educational and Scientific Development. , 2006, , .		0
42	Robust demodulation of wideband signals. Journal of Communications Technology and Electronics, 2007, 52, 765-772.	0.5	0
43	Detection of mass-spectrum peaks in bioassays in dope testing. Optoelectronics, Instrumentation and Data Processing, 2008, 44, 1-7.	0.6	0
44	Timing recovery problem in mobile systems with harmonic and multipath interference. , 2008, , .		0
45	Method of detecting the absorption of gamma rays propagating in a nitrogen-containing compound. Optoelectronics, Instrumentation and Data Processing, 2010, 46, 222-228.	0.6	0
46	Rock failure diagnostics based on structural changes in the electromagnetic emission signals by stages of rock loading. , 2010, , .		0
47	Method of gamma-spectrum interpretation using vectorial approximation. , 2012, , .		0
48	Robust generation of invariant detectors in uncertain noise environments. , 2014, , .		0
49	Invariant algorithms for signal detection in radar systems with digital television illumination. Journal of Communications Technology and Electronics, 2015, 60, 386-392.	0.5	0
50	Research of the sign demodulation algorithm under the action of high power external interference. , 2016, , .		0
51	Adaptive asymptotically robust invariant detection of signals in uncertain noise environments. , 2016, , .		0
52	Estimation of Energy Parameters of Global Positioning System Satellite Signal to Use in Radar Detection and Ranging with External Illumination. , 2018, , .		0
53	Asymptotic Robustness Coefficient for Signal Detection Algorithms. , 2018, , .		0
54	Losses in a Superconducting Quarter Wavelength Coplanar Resonator. , 2018, , .		0

#	ARTICLE	IF	CITATIONS
55	Statistical Algorithm for Estimating the Energy of a Radio Pulse when Measuring the Superconducting Qubitâ€‘Resonator System. Optoelectronics, Instrumentation and Data Processing, 2021, 57, 208-215.	0.6	0
56	Experimental investigations on synchronous recording of mechanical and electromagnetic parameters of EMP signals under loading of mineral rocks. Proceedings of the Russian Higher School Academy of Sciences, 2018, , 38-46.	0.1	0
57	About the possibility of using satellite navigation systems as illumination signals in passive radar stations. Proceedings of the Russian Higher School Academy of Sciences, 2019, , 27-37.	0.1	0
58	The Amplitude of Output Signal Estimation in the Study of Quantum Superconducting Structures. , 2020, , .		0
59	An asymptotically robust invariant algorithm for demodulation of DPSK signals under external interference with a priori uncertain parameters. Proceedings of the Russian Higher School Academy of Sciences, 2022, , 46-59.	0.1	0