

# Nikolai Prokopenko

## List of Publications by Year in descending order

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Version: 2024-02-01

70  
papers

169  
citations

2258059

3  
h-index

1872680

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g-index

80  
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80  
docs citations

80  
times ranked

29  
citing authors

#	ARTICLE	IF	CITATIONS
1	Sallen-Key Band-pass Filters with Independent Tuning of General Parameters. , 2022, , .		0
2	Measurement and Compact Modeling of Noise Characteristics in Complementary Junction Field-Effect Transistors. , 2020, , .		0
3	Multi-Functional Programmable Active RC-Filters with Digital Elements for Parameter Resetting. , 2020, , .		0
4	Comparison of Fast Response and Noise of Charge-Sensitive Amplifiers with Various Types of Input Fets. , 2020, , .		1
5	Differential Difference Amplifiers in the Second Order Low-Sensitive All-Pass Active RC-Filters. , 2020, , .		3
6	Accuracy Increase of Discrete Sensors With Time Delay. IEEE Sensors Journal, 2020, 20, 11400-11404.	4.7	3
7	Structured Array for Designing High-Speed Multichannel ICs for Nuclear Electronics. IEEE Transactions on Nuclear Science, 2019, 66, 2305-2311.	2.0	3
8	A Method for Increasing the Low-Temperature Stability of Steady-State Behavior and Common-Mode Interference Resistance CJFET Dual-Input-Stages. , 2019, , .		0
9	CMOS Current Logic Elements: Application Features for Processing Analog and Digital Signals. , 2018, , .		0
10	The Two-Channel Instrumentation Amplifier Based on a New Radiation-Hardened Microcircuit MH2XA010â€“03 for Reading Signals of Differential Piezoelectric Converters. , 2018, , .		0
11	The microcircuits MH2XA010-02/03 for signal processing of optoelectronic sensors. , 2017, , .		5
12	Digital potentiometers in the tasks of settings precision analog RC-filters taking into account the tolerances for passive components. , 2017, , .		5
13	The method of classical bridge speeding with the parasitic capacitances across the diagonally opposite pair of junctions. , 2017, , .		0
14	The application of multi-valued logic elements â€œminimumâ€•and â€œmaximumâ€•for processing current signals of sensors. , 2017, , .		0
15	The radiation-hardened BijFet differential amplifiers with negative current feedback on the common-mode signal. , 2016, , .		1
16	Application of ferromagnetic materials with properties set on nanolevel at resonant circuits creating of microwave (SHF) and THz (EHF) ranges. , 2016, , .		2
17	Electrodynamic characteristics estimation for aperiodic random composite media. , 2016, , .		0
18	Composite media based on chiral elements and their combinations with ferromagnetic structures. , 2016, , .		0

#	ARTICLE	IF	CITATIONS
19	Logic functions representation and synthesis of k-valued digital circuits in linear algebra. , 2016, , .		4
20	The design of the circuits of radiation-hardened charge-sensitive amplifiers based on the structured array (MH2XA010) and the array chip (AC-2.1). , 2016, , .		8
21	Microwave and mm-wave active-RC and RLC filters. , 2015, , .		2
22	Solution of solitary current inductor's "cutoff frequency problem" for EHF applications. , 2015, , .		0
23	The synthesis of compensation circuits of parasitic capacitances of the output circuit of classical broadband amplifiers of signal and telecommunications systems. , 2015, , .		1
24	The linear concept of logical synthesis of digital IP-modules of control and communication systems. , 2015, , .		9
25	Volume density of inductance for planar homogeneous current sheet at SHF. , 2015, , .		0
26	The ultraharmonic nonlinear parametrical zonal systems on thin ferromagnetic films and prospects of their applications in the devices of microwave and terahertz range. , 2015, , .		1
27	Investigation of nonlinear processes in distributed parametrical zonal systems of microwave and terahertz diapasons as part of composite environments. , 2015, , .		1
28	Microwave Selective Amplifiers with High Asymptotic Attenuation in the Range of Subresonance Frequencies. , 2015, , .		1
29	Specialized integral microcircuit of the amplifier of photosignals. Russian Microelectronics, 2015, 44, 197-202.	0.5	3
30	Microwave active phase splitters for quadrature demodulators. , 2015, , .		0
31	An integrated circuit of a universal comparator. Instruments and Experimental Techniques, 2015, 58, 483-487.	0.5	4
32	The Advanced Circuitry of the Precision Super Capacitances Based on the Classical and Differential Difference Operational Amplifiers. , 2015, , .		1
33	The radiation-hardened voltage references on bipolar and JFET transistors. , 2015, , .		3
34	Circuit and connection design of microwave differential difference amplifiers. , 2014, , .		1
35	Selective amplifier microwave-based non-inverting repeater AC current element basis of radiation resistant SiGe process technology. , 2014, , .		0
36	Basic concept of linear synthesis of multi-valued digital structures in linear spaces. , 2014, , .		12

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37	The multichannel high-frequency compensation of the analog sections of flash ADCs with the differential input at the cascade connection of the reference resistors. , 2014, , .		0
38	The input analog section of the ultrafast ADCs. , 2014, , .		0
39	Microwave selective amplifiers with paraphase output. , 2014, , .		1
40	The linear logic synthesis of k-valued digital structures in the analogous circuitry basis. , 2014, , .		6
41	The correction circuits for the broadband resistive voltage dividers with the capacitive load. , 2014, , .		1
42	The synthesis of the correction circuit of the high speed sensors of the physical quantities and current-voltage converters with the parasitic capacitance. , 2014, , .		2
43	The precision voltage references for the radiation-hardened bi-FET technological process. , 2014, , .		1
44	Phase error correcting method for phase splitters based on SiGe differential stage. , 2014, , .		0
45	The Research of the Dynamics of the Manipulator of the Parallel Structure with the Flexible Links. Applied Mechanics and Materials, 2014, 598, 119-123.	0.2	0
46	The basic circuit frequency correction basic dynamic parameters of sensors of physical quantities with the potential output. , 2014, , .		0
47	SiGe Selective Amplifier of Microwave Range with High Asymptotic Attenuation. , 2014, , .		3
48	Running inductance of cylindrical conductors with axial current density. , 2014, , .		2
49	A method of increasing the stability of the zero level analog circuits based on the &#x201C;Folded&#x201D; cascode with the high-impedance point branch in the terms of temperature and radiation effects. , 2014, , .		2
50	Induction of cylinder film with azimuth density of vortex current. , 2014, , .		0
51	Designing transmission lines EHF range with the end conductor on the substrate for hybrid integrated circuits. , 2014, , .		0
52	IP-module of SiGe frequency doubler EHF range. , 2014, , .		0
53	The radiation-hardened source of reference voltage of negative polarity for silicon bipolar-JFET technology. , 2014, , .		3
54	The Architectures of the Differential Amplifiers on SiGe Bipolar Transistors with Low Voltage Supply. , 2014, , .		2

#	ARTICLE	IF	CITATIONS
55	Voltage gain compensation method for the classical differential stages in radiation action. , 2014, , .		1
56	Physical properties of integral inductance of strip MEMS - A coil at SHF. , 2014, , .		0
57	Schematic design of digital IC at the base of linear algebra. , 2014, , .		4
58	The main connection circuits of the radiation-hardened differential difference amplifier based on the bipolar and field effect technological process. , 2014, , .		12
59	Flux inductance of plane conducting ring with azimuth density of current. , 2014, , .		1
60	Circuit Design of Classical Stages with Bandwidth Enhancement Technique. , 2014, , .		3
61	Methods of Increasing Voltage Gain of the Low-Voltage Classical Stages. , 2014, , .		2
62	An integrated circuit for silicon photomultipliers tubes. Instruments and Experimental Techniques, 2014, 57, 40-44.	0.5	8
63	The methods of the bandwidth enhancement of the flash ADC with the differential input. , 2013, , .		2
64	High-Frequency Sections of Active Filters of Mixed-Signal SoC Based on Current Amplifiers. ISRN Electronics, 2012, 2012, 1-6.	1.1	6
65	The BiFET-technology voltage analog multipliers based on the radiation resistant ABMC &#x00AB;Integral&#x00BB;. , 2009, , .		7
66	Compensation methods of basic transistors output capacitance components in analog integrated circuits. , 2008, , .		2
67	Maximum ratings of voltage feedback and current feedback operational amplifiers in linear and nonlinear modes. , 2008, , .		9
68	Generalized current feedback operational amplifier. , 2008, , .		3
69	Design of bipolar differential opamps with unity gain bandwidth up to 23 GHz. , 2008, , .		11
70	Architecture and circuit engineering of precision differential amplifiers with increased common-mode rejection. , 2008, , .		1