

Svetlana A Vitusevich

List of Publications by Year in descending order

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186
papers

1,911
citations

257450

24
h-index

345221

36
g-index

186
all docs

186
docs citations

186
times ranked

2024
citing authors

#	ARTICLE	IF	CITATIONS
1	Dependence of magnetic penetration depth on the thickness of superconducting Nb thin films. <i>Physical Review B</i> , 2005, 72, .	3.2	197
2	Accurate microwave technique of surface resistance measurement of large-area HTS films using sapphire quasi-optical resonator. <i>IEEE Transactions on Applied Superconductivity</i> , 2003, 13, 3570-3573.	1.7	62
3	Sensitivity Enhancement of Si Nanowire Field Effect Transistor Biosensors Using Single Trap Phenomena. <i>Nano Letters</i> , 2014, 14, 3504-3509.	9.1	55
4	Separation of hot-electron and self-heating effects in two-dimensional AlGaIn/GaN-based conducting channels. <i>Applied Physics Letters</i> , 2003, 82, 748-750.	3.3	54
5	Current-voltage instabilities in GaN/AlGaIn resonant tunnelling structures. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2003, 0, 2389-2392.	0.8	52
6	Effects of γ -irradiation on AlGaIn/GaN-based HEMTs. <i>Physica Status Solidi A</i> , 2003, 195, 101-105.	1.7	49
7	Mechanism of mobility increase of the two-dimensional electron gas in AlGaIn/GaN heterostructures under small dose gamma irradiation. <i>Journal of Applied Physics</i> , 2008, 103, .	2.5	46
8	Features of Transport in Ultrathin Gold Nanowire Structures. <i>Small</i> , 2013, 9, 846-852.	10.0	44
9	High sensitivity microwave characterization of organic molecule solutions of nanoliter volume. <i>Applied Physics Letters</i> , 2009, 94, .	3.3	42
10	Amyloid-beta peptide detection via aptamer-functionalized nanowire sensors exploiting single-trap phenomena. <i>Biosensors and Bioelectronics</i> , 2020, 154, 112053.	10.1	42
11	Liquid and Back Gate Coupling Effect: Toward Biosensing with Lowest Detection Limit. <i>Nano Letters</i> , 2014, 14, 578-584.	9.1	38
12	Transport properties of single-walled carbon nanotube transistors after gamma radiation treatment. <i>Journal of Applied Physics</i> , 2010, 107, .	2.5	36
13	Nanoliter liquid characterization by open whispering-gallery mode dielectric resonators at millimeter wave frequencies. <i>Journal of Applied Physics</i> , 2008, 104, .	2.5	35
14	Quantum confinement effect on the effective mass in two-dimensional electron gas of AlGaIn/GaN heterostructures. <i>Journal of Applied Physics</i> , 2009, 105, .	2.5	35
15	Internal strains and crystal structure of the layers in AlGaIn/GaN heterostructures grown on a sapphire substrate. <i>Journal of Applied Physics</i> , 2009, 105, 063515.	2.5	33
16	Whispering-Gallery-Mode Resonator Technique With Microfluidic Channel for Permittivity Measurement of Liquids. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2015, 63, 2003-2009.	4.6	31
17	Excess low-frequency noise in AlGaIn/GaN-based high-electron-mobility transistors. <i>Applied Physics Letters</i> , 2002, 80, 2126-2128.	3.3	30
18	Noise and transport characterization of single molecular break junctions with individual molecule. <i>Journal of Applied Physics</i> , 2012, 112, .	2.5	29

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19	Noise spectroscopy of nanowire structures: fundamental limits and application aspects. Semiconductor Science and Technology, 2017, 32, 043002.	2.0	29
20	Hot-electron transport in AlGaIn ^x GaN two-dimensional conducting channels. Applied Physics Letters, 2004, 85, 5421-5423.	3.3	28
21	Improvement of interface properties of AlGaIn/GaN heterostructures under gamma-radiation. Applied Surface Science, 2008, 255, 784-786.	6.1	27
22	AlGaIn/GaN High Electron Mobility Transistor Structures: Self-Heating Effect and Performance Degradation. IEEE Transactions on Device and Materials Reliability, 2008, 8, 543-548.	2.0	26
23	Mechanism of contact resistance formation in ohmic contacts with high dislocation density. Journal of Applied Physics, 2012, 111, 114301. Millimeter-wave surface impedance of optimally-doped Ba(Fe _{1-x} Ti _x) ₂ ETQq0 0 0 rgBT /Overlock 10 Tf 50 567 Td (xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline")	2.5	25
24	Investigation of spin-orbit interaction in Al _x In _{1-x} N/GaN heterostructures with large electron spin polarization. Applied Physics Letters, 2015, 106, 162101.	3.2	25
25	Al _x In _{1-x} N/GaN heterostructures with large electron spin polarization. Applied Physics Letters, 2015, 106, 162101.	3.2	24
26	Mechanisms of current formation in resonant tunneling AlIn ^x GaN heterostructures. Applied Physics Letters, 2007, 91, 222112.	3.3	23
27	Origin of noise in liquid-gated Si nanowire troponin biosensors. Nanotechnology, 2018, 29, 175202.	2.6	22
28	Design and characterization of an all-cryogenic low phase-noise sapphire K-band oscillator for satellite communication. IEEE Transactions on Microwave Theory and Techniques, 2003, 51, 163-169.	4.6	21
29	Noise characterization of metal-single molecule contacts. Applied Physics Letters, 2015, 106, 162101.	3.3	21
30	Whispering gallery mode resonators in microwave physics and technologies. International Journal of Microwave and Wireless Technologies, 2017, 9, 781-796.	1.9	20
31	Resonance and current instabilities in AlN/GaN resonant tunnelling diodes. Physica E: Low-Dimensional Systems and Nanostructures, 2004, 21, 752-755.	2.7	19
32	Measurements of Millimeter-Wave Surface Resistance and Temperature Dependence of Reactance of Thin HTS Films Using Quasi-Optical Dielectric Resonator. IEEE Transactions on Applied Superconductivity, 2005, 15, 2919-2922.	1.7	19
33	Contact properties to CVD-graphene on GaAs substrates for optoelectronic applications. Nanotechnology, 2014, 25, 335707.	2.6	17
34	Low-Frequency Noise in Field-Effect Devices Functionalized With Dendrimer/Carbon-Nanotube Multilayers. IEEE Sensors Journal, 2011, 11, 142-149.	4.7	16
35	Single trap dynamics in electrolyte-gated Si-nanowire field effect transistors. Journal of Applied Physics, 2014, 115, 044301.	2.5	16
36	Direct-current-assisted microwave quenching of YBa ₂ Cu ₃ O _{7-δ} coplanar waveguide to a highly dissipative state. Applied Physics Letters, 2014, 105, 081101.	3.3	16

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37	Effect of Gamma Irradiation on Dynamics of Charge Exchange Processes between Single Trap and Nanowire Channel. <i>Small</i> , 2018, 14, 1702516.	10.0	16
38	Liquid-Gated Two-Layer Silicon Nanowire FETs: Evidence of Controlling Single-Trap Dynamic Processes. <i>Nano Letters</i> , 2018, 18, 7305-7313.	9.1	16
39	Mechanism of strain relaxation by twisted nanocolumns revealed in AlGaIn/GaN heterostructures. <i>Applied Physics Letters</i> , 2009, 95, .	3.3	15
40	Synthesis and properties of porous SiC ceramics. <i>Journal of Applied Physics</i> , 2010, 107, .	2.5	15
41	Whispering Gallery Mode Hemisphere Dielectric Resonators With Impedance Plane. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2010, 58, 2682-2691.	4.6	15
42	Highly Sensitive and Fast Detection of C-Reactive Protein and Troponin Biomarkers Using Liquidgated Single Silicon Nanowire Biosensors. <i>MRS Advances</i> , 2020, 5, 835-846.	0.9	15
43	Microwave impedance characterization of large-area HTS films: a novel approach. <i>Superconductor Science and Technology</i> , 2004, 17, 899-903.	3.5	14
44	Modulation phenomena in Si nanowire field-effect transistors characterized using noise spectroscopy and gamma radiation technique. <i>Journal of Applied Physics</i> , 2013, 113, 124503.	2.5	13
45	Advanced fabrication of Si nanowire FET structures by means of a parallel approach. <i>Nanotechnology</i> , 2014, 25, 275302.	2.6	13
46	Graphene field effect transistors for in vitro and ex vivo recordings. <i>IEEE Nanotechnology Magazine</i> , 2016, , 1-1.	2.0	13
47	Monitoring of Dynamic Processes during Detection of Cardiac Biomarkers Using Silicon Nanowire Fieldâ€™Effect Transistors. <i>Advanced Materials Interfaces</i> , 2020, 7, 2000508.	3.7	13
48	Photoconductivity, pH Sensitivity, Noise, and Channel Length Effects in Si Nanowire FET Sensors. <i>Nanoscale Research Letters</i> , 2018, 13, 87.	5.7	12
49	Noise suppression beyond the thermal limit with nanotransistor biosensors. <i>Scientific Reports</i> , 2020, 10, 12678.	3.3	12
50	Novel dielectric resonator structures for future microwave communication systems. <i>Journal of the European Ceramic Society</i> , 2001, 21, 2687-2691.	5.7	11
51	Peculiarities of the thickness dependence of the superconducting properties of thin Nb films. <i>Physica C: Superconductivity and Its Applications</i> , 2004, 408-410, 700-702.	1.2	11
52	Power and temperature dependence of low frequency noise in AlGaInâ€™GaIn transmission line model structures. <i>Journal of Applied Physics</i> , 2004, 96, 5625-5630.	2.5	11
53	Capacitance characterization of AlN/GaN double-barrier resonant tunnelling diodes. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2006, 3, 2265-2269.	0.8	11
54	Millimeter-Wave Surface Impedance Characterization of HTS Films and Single Crystals Using Quasi-Optical Sapphire Resonators. <i>IEEE Transactions on Applied Superconductivity</i> , 2011, 21, 591-594.	1.7	11

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55	Advanced performance and scalability of Si nanowire field-effect transistors analyzed using noise spectroscopy and gamma radiation techniques. Journal of Applied Physics, 2013, 114, .	2.5	11
56	DC-BIASED COPLANAR WAVEGUIDE ON THE BASIS OF HIGH-TC SUPERCONDUCTING THIN FILM WITH NONLINEAR IMPEDANCE. Telecommunications and Radio Engineering (English Translation of) Tj ETQq0 0 0 rgBT /Overlock 10 If 50 697	0.5	9
57	Single trap in liquid gated nanowire FETs: Capture time behavior as a function of current. Journal of Applied Physics, 2015, 117, 174506.	2.5	10
58	Interface structural defects and photoluminescence properties of epitaxial GaN and AlGaIn/GaN layers grown on sapphire. Semiconductors, 2006, 40, 1060-1065.	0.5	9
59	Structural characteristics of different types of nanoparticles synthesised in mesomorphic metal alkanoates. Liquid Crystals, 2017, 44, 1269-1276.	2.2	9
60	Electronic edge-state and space-charge phenomena in long GaN nanowires and nanoribbons. Nanotechnology, 2017, 28, 135204.	2.6	9
61	Photoconductivity of ionic thermotropic liquid crystal with semiconductor nanoparticles. Journal of Molecular Liquids, 2018, 267, 406-410.	4.9	9
62	Towards pharmacological treatment screening of cardiomyocyte cells using Si nanowire FETs. Biosensors and Bioelectronics, 2019, 137, 229-235.	10.1	9
63	Quasioptical Sapphire Resonators in the Form of a Truncated Cone. Journal of Lightwave Technology, 2008, 26, 3118-3123.	4.6	8
64	MODIFIED CHARGE FLUCTUATION NOISE MODEL FOR ELECTROLYTE-INSULATOR-SEMICONDUCTOR DEVICES. Modern Physics Letters B, 2011, 25, 831-840.	1.9	8
65	Features of temperature dependence of contact resistivity in ohmic contacts on lappedn-Si. Journal of Applied Physics, 2012, 112, 063703.	2.5	8
66	Double-gated Si NW FET sensors: Low-frequency noise and photoelectric properties. Journal of Applied Physics, 2016, 120, .	2.5	8
67	Highly Sensitive Aptamer-Based Method for the Detection of Cardiac Biomolecules on Silicon Dioxide Surfaces. MRS Advances, 2018, 3, 1535-1541.	0.9	8
68	Noise spectroscopy of tunable nanoconstrictions: molecule-free and molecule-modified. Nanotechnology, 2018, 29, 385704.	2.6	8
69	Phase noise study of AlGaIn/GaN HEMT X-band oscillator. Physica Status Solidi C: Current Topics in Solid State Physics, 2005, 2, 2615-2618.	0.8	7
70	Low-frequency noise in AlGaIn/GaN HEMT structures with AlN thin film layer. Physica Status Solidi C: Current Topics in Solid State Physics, 2006, 3, 2329-2332.	0.8	7
71	Millimeter-wave study of London penetration depth temperature dependence in Ba(Fe _{0.926} Co _{0.074}) ₂ As ₂ single crystal. Low Temperature Physics, 2011, 37, 725-728.	0.6	7
72	Surface Impedance of YBa ₂ Cu ₃ O _{7-x} Films Grown on MgO Substrate as a Function of Film Thickness. Journal of Superconductivity and Novel Magnetism, 2013, 26, 43-48.	1.8	7

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73	High-field quasi-ballistic transport in AlGaIn/GaN heterostructures. Applied Physics Letters, 2014, 104, 072105.	3.3	7
74	Low-frequency noise in individual carbon nanotube field-effect transistors with top, side and back gate configurations: effect of gamma irradiation. Nanotechnology, 2014, 25, 035703.	2.6	7
75	Single-trap kinetic in Si nanowire FETs: effect of gamma radiation treatment. MRS Advances, 2016, 1, 3755-3760.	0.9	7
76	Microwave Quenching in DC-Biased Coplanar Waveguide Based on $\text{YBa}_2\text{Cu}_3\text{O}_{7-\delta}$ Thin Film. IEEE Transactions on Applied Superconductivity, 2016, 26, 1-4.	1.7	7
77	Contactless exploration of graphene properties using millimeter wave response of WGM resonator. Applied Physics Letters, 2018, 113, 094102.	3.3	7
78	Noise spectroscopy to study the 1D electron transport properties in InAs nanowires. Nanotechnology, 2019, 30, 305001.	2.6	7
79	Photoresponse spectra in p-i-n diodes containing quantum dots. Nanotechnology, 2002, 13, 94-96.	2.6	6
80	Microwave properties of HTS films: measurements in the millimeter wave range. Low Temperature Physics, 2006, 32, 608-613.	0.6	6
81	Aluminium nitride-niobium multilayers and free-standing structures for MEMS. Thin Solid Films, 2006, 515, 489-492.	1.8	6
82	Raman spectroscopy of bio-SiC ceramics. Physica Status Solidi (A) Applications and Materials Science, 2011, 208, 808-813.	1.8	6
83	Hot carrier energy losses in conducting layers of AlGaIn/GaN heterostructures grown on SiC and Al ₂ O ₃ substrates. Physica Status Solidi (B): Basic Research, 2006, 243, 1529-1532.	1.5	5
84	Origin of noise in AlGaIn-GaN heterostructures in the range of 10-100MHz. Journal of Applied Physics, 2006, 99, 073706.	2.5	5
85	1/f noise and mechanisms of the conductivity in carbon nanotube bundles. Carbon, 2011, 49, 5201-5206.	10.3	5
86	Noise spectroscopy of transport properties in carbon nanotube field-effect transistors. Carbon, 2013, 53, 252-259.	10.3	5
87	Microwave characterization of low-molecular-weight antioxidant specific biomarkers. Biochimica Et Biophysica Acta - General Subjects, 2019, 1863, 226-231.	2.4	5
88	Porous Si Partially Filled with Water Molecules-Crystal Structure, Energy Bands and Optical Properties from First Principles. Nanomaterials, 2020, 10, 396.	4.1	5
89	Effect of spacer layer on quantum interference in double-barrier resonant tunneling structures. Surface Science, 1996, 361-362, 235-238.	1.9	4
90	Quantum interference of electrons transmitted throughout a double-barrier resonant tunnelling structure under a perpendicular magnetic field. Semiconductor Science and Technology, 1997, 12, 86-90.	2.0	4

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91	Influence of surface passivation on low-frequency noise properties of AlGaIn/GaN high electron mobility transistor structures. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2005, 202, 816-819.	1.8	4
92	Nature of low-energy optical emission in doped AlGaIn/GaN heterostructures. <i>Journal of Applied Physics</i> , 2007, 101, 033709.	2.5	4
93	Dual-mode microwave cavity for fast identification of liquids in bottles. , 2011, , .		4
94	Quartz Whispering-Gallery-Mode Resonator With Microfluidic Chip as Sensor for Permittivity Measurement of Liquids. <i>IEEE Sensors Journal</i> , 2019, 19, 7976-7982.	4.7	4
95	Low-Frequency Noise Spectroscopy at Nanoscale: Carbon Nanotube Materials and Devices. , 0, , .		4
96	WGM DIELECTRIC RESONATOR WITH CAPILLARY FOR MICROWAVE CHARACTERIZATION OF LIQUIDS. <i>Telecommunications and Radio Engineering (English Translation of Elektrosvyaz and Radiotekhnika)</i> , 2019, 78, 1651-1657.	0.4	4
97	Graphene Nanoplatelet/Au Nanoparticle Hybrid as a Capacitive-Metal/Oxide/Semiconductor pH Sensor. <i>ACS Applied Electronic Materials</i> , 2021, 3, 430-436.	4.3	4
98	Single Whispering-Gallery-Mode Resonator With Microfluidic Chip as a Basis for Multifrequency Microwave Permittivity Measurement of Liquids. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2022, 70, 3310-3318.	4.6	4
99	Oscillatory and magneto-oscillatory structure of the tunnel current in double-barrier heterostructures. <i>Solid State Communications</i> , 1995, 94, 93-98.	1.9	3
100	Cryogenic high-Q microwave resonators for stable oscillators. <i>IEEE Transactions on Applied Superconductivity</i> , 2001, 11, 1195-1198.	1.7	3
101	The investigation of properties of electron transport in AlGaIn/GaN heterostructures. <i>Microelectronics Journal</i> , 2003, 34, 575-577.	2.0	3
102	LOW FREQUENCY NOISE PARAMETERS IN AN AlGaIn/GaN HETEROSTRUCTURE WITH 33% AND 75% Al MOLE FRACTION. <i>International Journal of High Speed Electronics and Systems</i> , 2004, 14, 762-768.	0.7	3
103	Dynamic redistribution of the electric field of the channel in AlGaIn/GaN high electron mobility transistor with nanometer-scale gate length. <i>Applied Physics Letters</i> , 2005, 87, 192110.	3.3	3
104	Open WGM Dielectric Resonator Technique for Characterization of nL-Volume Liquids. , 2008, , .		3
105	Effect of microwave treatment on current flow mechanisms in Au-TiBx-Al-Ti-n+-n+-GaIn-Al2O3 ohmic contacts. <i>Semiconductors</i> , 2010, 44, 745-751.	0.5	3
106	Nonlinear attenuation in YBCO coplanar transmission line in applied magnetic field. , 2013, , .		3
107	WGM resonators with microfluidic channel for sub-mm wave characterization of biological liquids. , 2016, , .		3
108	Temperature-Dependent Noise and Transport in Silicon Two-Layer Nanowire FETs. <i>Physica Status Solidi (B): Basic Research</i> , 2019, 256, 1800636.	1.5	3

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109	Low-Frequency Noise in AlGaIn/GaN High Electron Mobility Transistors Irradiated by β -Ray Quanta. Physica Status Solidi C: Current Topics in Solid State Physics, 2003, 0, 78-81.	0.8	2
110	Phase noise of an HTS resonator operated in the nonlinear regime. IEEE Transactions on Applied Superconductivity, 2003, 13, 324-327.	1.7	2
111	Equilibrium and non-equilibrium $1/f$ noise in AlGaIn/GaN TLM structures. Applied Surface Science, 2004, 238, 143-146.	6.1	2
112	Low-Noise Microwave Devices: AlGaIn/GaN High Electron Mobility Transistors and Oscillators. , 2007, , .		2
113	Noise spectroscopy of AlGaIn/GaN HEMT structures with long channels. Journal of Statistical Mechanics: Theory and Experiment, 2009, 2009, P01046.	2.3	2
114	AlGaIn/GaN heterostructures for hot electron and quantum effects. Journal of Physics: Conference Series, 2009, 152, 012008.	0.4	2
115	Nonlinear attenuation in a long YBCO coplanar transmission line in the vicinity of T_c . , 2010, , .		2
116	Low frequency noise in strained silicon nanowire array MOSFETs and Tunnel-FETs. , 2013, , .		2
117	Accurate permittivity characterization of liquids by means of WGM resonator with microfluidic. , 2013, , .		2
118	Radiation losses of sapphire WGM resonators: Effects of dielectric disk shape. , 2015, , .		2
119	Features of noise in ultrathin gold nanowire structures. Journal of Statistical Mechanics: Theory and Experiment, 2016, 2016, 054023.	2.3	2
120	Electric Current and Noise in Long GaN Nanowires in the Space-Charge Limited Transport Regime. Fluctuation and Noise Letters, 2017, 16, 1750010.	1.5	2
121	Liquids Microwave Characterization Technique Based on Quartz WGM Resonator with Microfluidic Chip. , 2018, , .		2
122	Boosting the Performance of Liquid-Gated Nanotransistor Biosensors Using Single-Electron Trap Phenomena. Advanced Electronic Materials, 2021, 7, 2000858.	5.1	2
123	ON WGM RESONATOR TECHNIQUE FOR MICROWAVE CHARACTERIZATION OF SUPERCONDUCTORS IN NORMAL STATE. Telecommunications and Radio Engineering (English Translation of Elektrosyaz and) Tj ETQq1 1 0784314 0gBT /Over		
124	Characteristic Frequencies and Times, Signal-to-Noise Ratio and Light Illumination Studies in Nanowire FET Biosensors : Invited paper. , 2020, , .		2
125	Investigation of contact exclusion in p-Ge long samples. Journal of Physics Condensed Matter, 1992, 4, 4267-4272.	1.8	1
126	Resonant tunnelling effect in delta doped p-n GaAs junction. Microelectronic Engineering, 1999, 46, 169-172.	2.4	1

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127	Fine structure of photoresponse spectra in a double-barrier resonant tunnelling diode. Nanotechnology, 2000, 11, 305-308.	2.6	1
128	Two-Dimensional Electron Dynamics in GaN/AlGaIn Heterostructures. Physica Status Solidi C: Current Topics in Solid State Physics, 2003, 0, 401-404.	0.8	1
129	Low Frequency Noise In Electrolyte-Gate Field-Effect Devices Functionalized With Dendrimerâ€•Carbon-Nanotube Multilayers. , 2009, , .		1
130	Low Frequency Noise in 2 DEG Channel of AlGaInâ€•GaN Heterostructures Scaled to Nanosize Width. , 2009, , .		1
131	Transport of single-walled carbon nanotube transistors after gamma radiation treatment for high-speed applications. , 2010, , .		1
132	Noise properties of carbon nanotube FETs with top-and side-gate geometries: Effect of gamma irradiation. , 2013, , .		1
133	A new mechanism of contact resistance formation in ohmic contacts to semiconductors with high dislocation density. , 2013, , .		1
134	Transport properties characterization of individual molecule device using noise spectroscopy: A new approach. AIP Conference Proceedings, 2013, , .	0.4	1
135	Features of the gate coupling effect in liquid-gated Si nanowire FETs. , 2015, , .		1
136	Steady-state and high-frequency electron transport in GaN nanowires. Journal of Physics: Conference Series, 2015, 647, 012033.	0.4	1
137	Transport phenomena in liquid-gated Si nanowire FETs for biosensing applications. , 2015, , .		1
138	Signal-to-noise ratio enhancement using the gate coupling effect. , 2016, , .		1
139	Analysis of charge states in GaN-based nanoribbons using transport and noise studies. , 2017, , .		1
140	Low-frequency noise in Si NW FET for electrical biosensing. , 2017, , .		1
141	Activationâ€•relaxation processes and related effects in quantum conductance of molecular junctions. Nanotechnology, 2020, 31, 045001.	2.6	1
142	Manufacture technology of nanocrystallites based on Al ₂ O ₃ nanoporous membranes with saturated aqueous solution KH ₂ PO ₄ for telecommunication systems. , 2020, , .		1
143	The measurement cell based on the quartz quasioptical resonator for research on dielectric liquids in the sub-THz range. Radiofizika I Elektronika, 2016, 21, 74-78.	0.2	1
144	Frequency stable oscillators based on cryogenic whispering gallery mode resonators. , 0, , .		0

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145	<title>Influence of growth conditions on electrophysical properties of HgMnTe/CdZnTe heterostructures</title>. , 1997, , .		0
146	Effect of thermal annealing and high-power microwave radiation on characteristics of combined resonant tunneling structures. , 0, , .		0
147	An all-cryogenic low phase-noise hybrid K-band oscillator for satellite communications. , 0, , .		0
148	Resonant spectroscopy of electric-field-induced superlattices. Journal of Applied Physics, 2001, 90, 2857-2861.	2.5	0
149	The effect of gamma-irradiation on the operating parameters of group III nitrides-based field effect transistors. , 0, , .		0
150	Resonant tunneling effect in a periodically modulated electrical field. Physica E: Low-Dimensional Systems and Nanostructures, 2002, 13, 811-814.	2.7	0
151	Hot-electron transport in III-V nitride based two-dimensional gases. Physica Status Solidi C: Current Topics in Solid State Physics, 2003, 0, 2408-2411.	0.8	0
152	Ultra-high electric field transport in GaN-based heterostructures. , 0, , .		0
153	Low-Temperature Transport in AlGaIn/GaN 2D Electron Systems. AIP Conference Proceedings, 2005, , .	0.4	0
154	Influence of Small Doses of Gamma Irradiation on Transport and Noise Properties of SiC MESFETs. AIP Conference Proceedings, 2005, , .	0.4	0
155	High-Frequency Noise In AlGaIn/GaN Heterostructures. AIP Conference Proceedings, 2005, , .	0.4	0
156	Subnanosecond Current Kinetics under Hot Carrier Transport in AlGaIn/GaN Heterostructures. AIP Conference Proceedings, 2005, , .	0.4	0
157	TRANSPORT AND NOISE FEATURES IN AlGaIn/GaN FIELD EFFECT TRANSISTOR WITH NANOMETER-SCALING GATE LENGTH. International Journal of Nanoscience, 2005, 04, 1001-1006.	0.7	0
158	Whispering-Gallery-Mode Sapphire Resonators in the Forms of Cylindrical Disc and Cone for Millimeter-Wave Resistance Measurements of HTS Films. , 2007, , .		0
159	Origin of Noise in AlGaIn/GaN Heterostructures in the Range of 1Hz-100 MHz and its Up-Conversion in High-Frequency Noise of Oscillators. AIP Conference Proceedings, 2007, , .	0.4	0
160	Enhancement by electric field of high-speed photoconductivity in AlGaIn-GaN heterostructures. Applied Physics Letters, 2007, 90, 152102.	3.3	0
161	Reliability and Improved Performance of AlGaIn/GaN High Electron Mobility Transistor Structures. , 2008, , .		0
162	Nonlinear coplanar waveguide on the basis of high-Tc superconducting thin film. , 2010, , .		0

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163	Microwave impedance properties of single crystal Ba(Fe _{1-x} X _x) ₂ As ₂ , 2010, , .		0
164	AlGaIn/GaN microwave transistors for wireless communication systems and advanced nanostructures for high-speed sensor applications. , 2010, , .		0
165	Microwave - to - submm wave reflection and transmission coefficients for investigation of biochemical water solutions. , 2010, , .		0
166	Noise characterisation of transport properties in single wall carbon nanotube field-effect transistors. , 2011, , .		0
167	Noise spectroscopy of traps in silicon nanowire field-effect transistors. , 2011, , .		0
168	Hemispherical and aspheric WGM dielectric resonators with conducting plane: Radiation and conductivity losses in millimeter wavelength range. , 2012, , .		0
169	Si nanowire field effect transistors: Effect of gamma radiation treatment. , 2013, , .		0
170	Noise and transport characteristics of silicon nanowire field effect transistors with liquid gate. , 2013, , .		0
171	Transition from Schottky-barrier-determined to channel transport regime with low noise in carbon nanotube field effect transistors. , 2013, , .		0
172	Transport and noise properties of Si nanowire channels with different lengths before and after gamma radiation treatment. , 2013, , .		0
173	Origin of noise in structures with tuned nanoconstrictions. , 2013, , .		0
174	Advanced microwave near-field technique for investigation of material properties. , 2013, , .		0
175	MILLIMETER WAVE DETECTORS DEVELOPED ON THE BASIS OF DOPED SEMICONDUCTORS. Modern Physics Letters B, 2014, 28, 1450001.	1.9	0
176	The temperature dependence of the resistivity of ohmic contacts based on gallium arsenide and indium phosphide in the 4.2â€“300 K range. Technical Physics Letters, 2016, 42, 649-651.	0.7	0
177	Noise characterization of molecular junctions. , 2017, , .		0
178	Effect of molecular layers on charge transport in nanowires. Journal of Physics: Conference Series, 2017, 864, 012063.	0.4	0
179	Low-noise high-speed Si nanowire field-effect transistors: Recent advances and opportunities in biosensor applications. , 2017, , .		0
180	Hooge's parameter in Si NW FET with different widths. , 2017, , .		0

#	ARTICLE	IF	CITATIONS
181	Real-time microwave characterization of low-molecular-weight antioxidant biomarkers. , 2018, , .		0
182	Millimeter-Wave WGM Resonator-Based Characterization of Continuous and Noncontinuous Ultrathin Cu Films. IEEE Microwave and Wireless Components Letters, 2019, 29, 363-365.	3.2	0
183	WGM Resonators for Conductivity Measurements of Graphene Films. , 2019, , .		0
184	Understanding and Control of Stress at Si-SiO ₂ Interface. Key Engineering Materials, 2020, 850, 291-296.	0.4	0
185	Single-trap phenomena stochastic switching for noise suppression in nanowire FET biosensors. Japanese Journal of Applied Physics, 2021, 60, SBBC03.	1.5	0
186	THE MEASURING CELL BASED ON THE QUARTZ QUAZIOPTICAL RESONATOR FOR RESEARCH ON DIELECTRIC LIQUIDS IN THE SUB-THZ RANGE. Telecommunications and Radio Engineering (English Translation of) Tj ETQq0 0 0qBT /Overclock 10 Tf		