Svetlana A Vitusevich

List of Publications by Year
in descending order

186	1,911	257450 24	345221 36
papers	citations	h-index	g-index

186	186	186	2024
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Single Whispering-Gallery-Mode Resonator With Microfluidic Chip as a Basis for Multifrequency Microwave Permittivity Measurement of Liquids. IEEE Transactions on Microwave Theory and Techniques, 2022, 70, 3310-3318.	4.6	4
2	Single-trap phenomena stochastic switching for noise suppression in nanowire FET biosensors. Japanese Journal of Applied Physics, 2021, 60, SBBG03.	1.5	0
3	Boosting the Performance of Liquidâ€Gated Nanotransistor Biosensors Using Singleâ€Trap Phenomena. Advanced Electronic Materials, 2021, 7, 2000858.	5.1	2
4	Graphene Nanoplateletâ€“Au Nanoparticle Hybrid as a Capacitive-Metalâ€“Oxideâ€“Semiconductor pH Sensor. ACS Applied Electronic Materials, 2021, 3, 430-436.	4.3	4
5	Activationâ€“relaxation processes and related effects in quantum conductance of molecular junctions. Nanotechnology, 2020, 31, 045001.	2.6	1
6	Understanding and Control of Stress at Si-SiO₂ Interface. Key Engineering Materials, 2020, 850, 291-296.	0.4	0
7	Noise suppression beyond the thermal limit with nanotransistor biosensors. Scientific Reports, 2020, 10, 12678.	3.3	12
8	Manufacture technology of nanocrystallites based on Al2O3 nanoporous membranes with saturated aqueous solution KH2PO4 for telecommunication systems. , 2020, , .		1
9	Monitoring of Dynamic Processes during Detection of Cardiac Biomarkers Using Silicon Nanowire Fieldâ€Effect Transistors. Advanced Materials Interfaces, 2020, 7, 2000508.	3.7	13
10	Porous Si Partially Filled with Water Moleculesâ€”Crystal Structure, Energy Bands and Optical Properties from First Principles. Nanomaterials, 2020, 10, 396.	4.1	5
11	Highly Sensitive and Fast Detection of C-Reactive Protein and Troponin Biomarkers Using Liquidgated Single Silicon Nanowire Biosensors. MRS Advances, 2020, 5, 835-846.	0.9	15
12	Amyloid-beta peptide detection via aptamer-functionalized nanowire sensors exploiting single-trap phenomena. Biosensors and Bioelectronics, 2020, 154, 112053.	10.1	42
13	Characteristic Frequencies and Times, Signal-to-Noise Ratio and Light Illumination Studies in Nanowire FET Biosensors : Invited paper. , 2020, , .		2
14	Quartz Whispering-Gallery-Mode Resonator With Microfluidic Chip as Sensor for Permittivity Measurement of Liquids. IEEE Sensors Journal, 2019, 19, 7976-7982.	4.7	4
15	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
16	Towards pharmacological treatment screening of cardiomyocyte cells using Si nanowire FETs. Biosensors and Bioelectronics, 2019, 137, 229-235.	10.1	9
17	Temperatureâ€Dependent Noise and Transport in Silicon Twoâ€Layer Nanowire FETs. Physica Status Solidi (B): Basic Research, 2019, 256, 1800636.	1.5	3
18	Noise spectroscopy to study the 1D electron transport properties in InAs nanowires. Nanotechnology, 2019, 30, 305001.	2.6	7

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19	WGM Resonators for Conductivity Measurements of Graphene Films. , 2019, , .		0
20	Microwave characterization of low-molecular-weight antioxidant specific biomarkers. Biochimica Et Biophysica Acta - General Subjects, 2019, 1863, 226-231.	2.4	5
21	ON WGM RESONATOR TECHNIQUE FOR MICROWAVE CHARACTERIZATION OF SUPERCONDUCTORS IN NORMAL STATE. Telecommunications and Radio Engineering (English Translation of Elektrosvyaz and) Tj ETQq1 1 0.784314 rgBT /Ov	0.4	
22	WGM DIELECTRIC RESONATOR WITH CAPILLARY FOR MICROWAVE CHARACTERIZATION OF LIQUIDS. Telecommunications and Radio Engineering (English Translation of Elektrosvyaz and Radiotekhnika), 2019, 78, 1651-1657.	0.4	4
23	Origin of noise in liquid-gated Si nanowire troponin biosensors. Nanotechnology, 2018, 29, 175202.	2.6	22
24	Photoconductivity of ionic thermotropic liquid crystal with semiconductor nanoparticles. Journal of Molecular Liquids, 2018, 267, 406-410.	4.9	9
25	Photoconductivity, pH Sensitivity, Noise, and Channel Length Effects in Si Nanowire FET Sensors. Nanoscale Research Letters, 2018, 13, 87.	5.7	12
26	Effect of Gamma Irradiation on Dynamics of Charge Exchange Processes between Single Trap and Nanowire Channel. Small, 2018, 14, 1702516.	10.0	16
27	Liquids Microwave Characterization Technique Based on Quartz WGM Resonator with Microfluidic Chip. , 2018, , .		2
28	Liquid-Gated Two-Layer Silicon Nanowire FETs: Evidence of Controlling Single-Trap Dynamic Processes. Nano Letters, 2018, 18, 7305-7313.	9.1	16
29	Contactless exploration of graphene properties using millimeter wave response of WGM resonator. Applied Physics Letters, 2018, 113, 094102.	3.3	7
30	Highly Sensitive Aptamer-Based Method for the Detection of Cardiac Biomolecules on Silicon Dioxide Surfaces. MRS Advances, 2018, 3, 1535-1541.	0.9	8
31	Noise spectroscopy of tunable nanoconstrictions: molecule-free and molecule-modified. Nanotechnology, 2018, 29, 385704.	2.6	8
32	Real-time microwave characterization of low-molecular-weight antioxidant biomarkers. , 2018, , .		0
33	Structural characteristics of different types of nanoparticles synthesised in mesomorphic metal alkanoates. Liquid Crystals, 2017, 44, 1269-1276.	2.2	9
34	Noise spectroscopy of nanowire structures: fundamental limits and application aspects. Semiconductor Science and Technology, 2017, 32, 043002.	2.0	29
35	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
36	Electronic edge-state and space-charge phenomena in long GaN nanowires and nanoribbons. Nanotechnology, 2017, 28, 135204.	2.6	9

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37	Noise characterization of molecular junctions. , 2017, , .		0
38	Whispering gallery mode resonators in microwave physics and technologies. International Journal of Microwave and Wireless Technologies, 2017, 9, 781-796.	1.9	20
39	Effect of molecular layers on charge transport in nanowires. Journal of Physics: Conference Series, 2017, 864, 012063.	0.4	0
40	Analysis of charge states in GaN-based nanoribbons using transport and noise studies. , 2017, , .		1
41	Low-noise high-speed Si nanowire field-effect transistors: Recent advances and opportunities in biosensor applications. , 2017, , .		0
42	Low-frequency noise in Si NW FET for electrical biosensing. , 2017, , .		1
43	Hooge's parameter in Si NW FET with different widths. , 2017, , .		0
44	Features of noise in ultrathin gold nanowire structures. Journal of Statistical Mechanics: Theory and Experiment, 2016, 2016, 054023.	2.3	2
45	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
46	Graphene field effect transistors for in vitro and ex vivo recordings. IEEE Nanotechnology Magazine, 2016, , 1-1.	2.0	13
47	Double-gated Si NW FET sensors: Low-frequency noise and photoelectric properties. Journal of Applied Physics, 2016, 120, .	2.5	8
48	Single-trap kinetic in Si nanowire FETs: effect of gamma radiation treatment. MRS Advances, 2016, 1, 3755-3760.	0.9	7
49	Signal-to-noise ratio enhancement using the gate coupling effect. , 2016, , .		1
50	WGM resonators with microfluidic channel for sub-mm wave characterization of biological liquids. , 2016, , .		3
51	Microwave Quenching in DC-Biased Coplanar Waveguide Based on <inline-formula> <tex-math notation="LaTeX">${YBa}_{2}{Cu}_{3}{O}_{7-delta}$</tex-math> </inline-formula> Thin Film. IEEE Transactions on Applied Superconductivity, 2016, 26, 1-4.	1.7	7
52	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 0 rgBT /Overlock 10 Tf		0
53	The measurement cell based on the quartz quazioptical resonator for research on dielectric liquids in the sub-THz range. Radiofizika I Elektronika, 2016, 21, 74-78.	0.2	1
54	Features of the gate coupling effect in liquid-gated Si nanowire FETs. , 2015, , .		1

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55	Steady-state and high-frequency electron transport in GaN nanowires. Journal of Physics: Conference Series, 2015, 647, 012033.	0.4	1
56	Whispering-Gallery-Mode Resonator Technique With Microfluidic Channel for Permittivity Measurement of Liquids. IEEE Transactions on Microwave Theory and Techniques, 2015, 63, 2003-2009.	4.6	31
57	Transport phenomena in liquid-gated Si nanowire FETs for biosensing applications. , 2015, , .		1
58	Radiation losses of sapphire WGM resonators: Effects of dielectric disk shape. , 2015, , .		2
59	Noise characterization of metal-single molecule contacts. Applied Physics Letters, 2015, 106, .	3.3	21
60	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
61	Single trap dynamics in electrolyte-gated Si-nanowire field effect transistors. Journal of Applied Physics, 2014, 115, .	2.5	16
62	High-field quasi-ballistic transport in AlGaN/GaN heterostructures. Applied Physics Letters, 2014, 104, 072105.	3.3	7
63	MILLIMETER WAVE DETECTORS DEVELOPED ON THE BASIS OF DOPED SEMICONDUCTORS. Modern Physics Letters B, 2014, 28, 1450001.	1.9	0
64	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
65	Liquid and Back Gate Coupling Effect: Toward Biosensing with Lowest Detection Limit. Nano Letters, 2014, 14, 578-584.	9.1	38
66	Advanced fabrication of Si nanowire FET structures by means of a parallel approach. Nanotechnology, 2014, 25, 275302.	2.6	13
67	Contact properties to CVD-graphene on GaAs substrates for optoelectronic applications. Nanotechnology, 2014, 25, 335707.	2.6	17
68	Direct-current-assisted microwave quenching of YBa2Cu3O7â˜Î´ coplanar waveguide to a highly dissipative state. Applied Physics Letters, 2014, 105, .	3.3	16
69	Sensitivity Enhancement of Si Nanowire Field Effect Transistor Biosensors Using Single Trap Phenomena. Nano Letters, 2014, 14, 3504-3509.	9.1	55
70	Modulation phenomena in Si nanowire field-effect transistors characterized using noise spectroscopy and gamma radiation technique. Journal of Applied Physics, 2013, 113, 124503.	2.5	13
71	Millimeter wave surface impedance of optimally doped Ba(Fe<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mrow /></mml:msub></mml:math>As)2 rgBT /Overlock 10 Tf 50 127 Td (xmlns:m	3.2	25
72	Noise properties of carbon nanotube FETs with top-and side-gate geometries: Effect of gamma irradiation. , 2013, , .		1

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73	Nonlinear attenuation in YBCO coplanar transmission line in applied magnetic field. , 2013, , .		3
74	Low frequency noise in strained silicon nanowire array MOSFETs and Tunnel-FETs. , 2013, , .		2
75	Si nanowire field effect transistors: Effect of gamma radiation treatment. , 2013, , .		0
76	Surface Impedance of YBa2Cu3O7â˜Î´ Films Grown on MgO Substrate as a Function of Film Thickness. Journal of Superconductivity and Novel Magnetism, 2013, 26, 43-48.	1.8	7
77	Features of Transport in Ultrathin Gold Nanowire Structures. Small, 2013, 9, 846-852.	10.0	44
78	Noise spectroscopy of transport properties in carbon nanotube field-effect transistors. Carbon, 2013, 53, 252-259.	10.3	5
79	Noise and transport characteristics of silicon nanowire field effect transistors with liquid gate. , 2013, , .		0
80	A new mechanism of contact resistance formation in ohmic contacts to semiconductors with high dislocation density. , 2013, , .		1
81	Transition from Schottky-barrier-determined to channel transport regime with low noise in carbon nanotube field effect transistors. , 2013, , .		0
82	Transport and noise properties of Si nanowire channels with different lengths before and after gamma radiation treatment. , 2013, , .		0
83	Transport properties characterization of individual molecule device using noise spectroscopy: A new approach. AIP Conference Proceedings, 2013, , .	0.4	1
84	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
85	Accurate permittivity characterization of liquids by means of WGM resonator with microfluidic. , 2013, , .		2
86	Origin of noise in structures with tuned nanoconstrictions. , 2013, , .		0
87	Advanced microwave near-field technique for investigation of material properties. , 2013, , .		0
88	Noise and transport characterization of single molecular break junctions with individual molecule. Journal of Applied Physics, 2012, 112, .	2.5	29
89	Hemispherical and aspheric WGM dielectric resonators with conducting plane: Radiation and conductivity losses in millimeter wavelength range. , 2012, , .		0
90	Mechanism of contact resistance formation in ohmic contacts with high dislocation density. Journal of Applied Physics, 2012, 111, .	2.5	25

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91	Features of temperature dependence of contact resistivity in ohmic contacts on lappedn-Si. Journal of Applied Physics, 2012, 112, 063703.	2.5	8
92	MODIFIED CHARGE FLUCTUATION NOISE MODEL FOR ELECTROLYTE-INSULATOR-SEMICONDUCTOR DEVICES. Modern Physics Letters B, 2011, 25, 831-840.	1.9	8
93	Low-Frequency Noise in Field-Effect Devices Functionalized With Dendrimer/Carbon- Nanotube Multilayers. IEEE Sensors Journal, 2011, 11, 142-149.	4.7	16
94	Millimeter-wave study of London penetration depth temperature dependence in Ba(Fe0.926Co0.074)2As2 single crystal. Low Temperature Physics, 2011, 37, 725-728.	0.6	7
95	Millimeter-Wave Surface Impedance Characterization of HTS Films and Single Crystals Using Quasi-Optical Sapphire Resonators. IEEE Transactions on Applied Superconductivity, 2011, 21, 591-594.	1.7	11
96	1/f noise and mechanisms of the conductivity in carbon nanotube bundles. Carbon, 2011, 49, 5201-5206.	10.3	5
97	Raman spectroscopy of bioâ€SiC ceramics. Physica Status Solidi (A) Applications and Materials Science, 2011, 208, 808-813.	1.8	6
98	Noise characterisation of transport properties in single wall carbon nanotube field-effect transistors. , 2011, , .		0
99	Dual-mode microwave cavity for fast identification of liquids in bottles. , 2011, , .		4
100	Noise spectroscopy of traps in silicon nanowire field-effect transistors. , 2011, , .		0
101	Effect of microwave treatment on current flow mechanisms in Au-TiBx-Al-Ti-n+-n-n+-GaN-Al2O3 ohmic contacts. Semiconductors, 2010, 44, 745-751.	0.5	3
102	Synthesis and properties of porous SiC ceramics. Journal of Applied Physics, 2010, 107, .	2.5	15
103	Whispering Gallery Mode Hemisphere Dielectric Resonators With Impedance Plane. IEEE Transactions on Microwave Theory and Techniques, 2010, 58, 2682-2691.	4.6	15
104	Nonlinear attenuation in a long YBCO coplanar transmission line in the vicinity of Tc.. , 2010, , .		2
105	Transport properties of single-walled carbon nanotube transistors after gamma radiation treatment. Journal of Applied Physics, 2010, 107, .	2.5	36
106	Nonlinear coplanar waveguide on the basis of high-Tc superconducting thin film. , 2010, , .		0
107	Transport of single-walled carbon nanotube transistors after gamma radiation treatment for high-speed applications. , 2010, , .		1
108	Microwave impedance properties of single crystal Ba(Fe<inf>1−X</inf>Co<inf>X</inf>)<inf>2</inf>As<inf>2</inf>. , 2010, , .		0

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109	AlGaN/GaN microwave transistors for wireless communication systems and advanced nanostructures for high-speed sensor applications. , 2010, , .		0
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111	DC-BIASED COPLANAR WAVEGUIDE ON THE BASIS OF HIGH-TC SUPERCONDUCTING THIN FILM WITH NONLINEAR IMPEDANCE. Telecommunications and Radio Engineering (English Translation of) Tj ETQq1 1 0.784314 rgBT /Overlock 10		1
112	Noise spectroscopy of AlGaN/GaN HEMT structures with long channels. Journal of Statistical Mechanics: Theory and Experiment, 2009, 2009, P01046.	2.3	2
113	High sensitivity microwave characterization of organic molecule solutions of nanoliter volume. Applied Physics Letters, 2009, 94, .	3.3	42
114	Low Frequency Noise In Electrolyte-Gate Field-Effect Devices Functionalized With Dendrimerâˆ•Carbon-Nanotube Multilayers. , 2009, , .		1
115	Low Frequency Noise in 2 DEG Channel of AlGaNâˆ•GaN Heterostructures Scaled to Nanosize Width. , 2009, , .		1
116	Quantum confinement effect on the effective mass in two-dimensional electron gas of AlGaN/GaN heterostructures. Journal of Applied Physics, 2009, 105, .	2.5	35
117	Mechanism of strain relaxation by twisted nanocolumns revealed in AlGaN/GaN heterostructures. Applied Physics Letters, 2009, 95, .	3.3	15
118	Internal strains and crystal structure of the layers in AlGaN/GaN heterostructures grown on a sapphire substrate. Journal of Applied Physics, 2009, 105, 063515.	2.5	33
119	AlGaN/GaN heterostructures for hot electron and quantum effects. Journal of Physics: Conference Series, 2009, 152, 012008.	0.4	2
120	Improvement of interface properties of AlGaN/GaN heterostructures under gamma-radiation. Applied Surface Science, 2008, 255, 784-786.	6.1	27
121	Reliability and Improved Performance of AlGaN/GaN High Electron Mobility Transistor Structures. , 2008, , .		0
122	Investigation of spin-orbit interaction in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi mathvariant="normal">Al</mml:mi><mml:mi mathvariant="normal">Ga</mml:mi><mml:mi mathvariant="normal">N</mml:mi><mml:mo>â^•</mml:mo><mml:mi mathvariant="normal">Ga</mml:mi><mml:mi mathvariant="normal">N</mml:mi></mml:mrow></mml:math>heterostructures with large electron d	3.2	24
123	AlGaN/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
124	Quasioptical Sapphire Resonators in the Form of a Truncated Cone. Journal of Lightwave Technology, 2008, 26, 3118-3123.	4.6	8
125	Nanoliter liquid characterization by open whispering-gallery mode dielectric resonators at millimeter wave frequencies. Journal of Applied Physics, 2008, 104, .	2.5	35
126	Open WGM Dielectric Resonator Technique for Characterization of nL-Volume Liquids. , 2008, , .		3

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127	Mechanism of mobility increase of the two-dimensional electron gas in AlGaNâˆ•GaN heterostructures under small dose gamma irradiation. Journal of Applied Physics, 2008, 103, .	2.5	46
128	Whispering-Gallery-Mode Sapphire Resonators in the Forms of Cylindrical Disc and Cone for Millimeter-Wave Resistance Measurements of HTS Films. , 2007, , .		0
129	Origin of Noise in AlGaN/GaN Heterostructures in the Range of 1Hzâ€“100 MHz and its Up-Conversion in High-Frequency Noise of Oscillators. AIP Conference Proceedings, 2007, , .	0.4	0
130	Enhancement by electric field of high-speed photoconductivity in AlGaNâˆ•GaN heterostructures. Applied Physics Letters, 2007, 90, 152102.	3.3	0
131	Mechanisms of current formation in resonant tunneling AlNâˆ•GaN heterostructures. Applied Physics Letters, 2007, 91, 222112.	3.3	23
132	Low-Noise Microwave Devices: AlGaN/GaN High Electron Mobility Transistors and Oscillators. , 2007, , .		2
133	Nature of low-energy optical emission in doped AlGaNâˆ•GaN heterostructures. Journal of Applied Physics, 2007, 101, 033709.	2.5	4
134	Microwave properties of HTS films: measurements in the millimeter wave range. Low Temperature Physics, 2006, 32, 608-613.	0.6	6
135	Low-frequency noise in AlGaN/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
136	Capacitance characterization of AlN/GaN double-barrier resonant tunnelling diodes. Physica Status Solidi C: Current Topics in Solid State Physics, 2006, 3, 2265-2269.	0.8	11
137	Hot carrier energy losses in conducting layers of AlGaN/GaN heterostructures grown on SiC and Al2O3substrates. Physica Status Solidi (B): Basic Research, 2006, 243, 1529-1532.	1.5	5
138	Aluminium nitrideâ€“niobium multilayers and free-standing structures for MEMS. Thin Solid Films, 2006, 515, 489-492.	1.8	6
139	Interface structural defects and photoluminescence properties of epitaxial GaN and AlGaN/GaN layers grown on sapphire. Semiconductors, 2006, 40, 1060-1065.	0.5	9
140	Origin of noise in AlGaNâˆ•GaN heterostructures in the range of 10â€“100MHz. Journal of Applied Physics, 2006, 99, 073706.	2.5	5
141	Phase noise study of AlGaN/GaN HEMT X-band oscillator. Physica Status Solidi C: Current Topics in Solid State Physics, 2005, 2, 2615-2618.	0.8	7
142	Influence of surface passivation on low-frequency noise properties of AlGaN/GaN high electron mobility transistor structures. Physica Status Solidi (A) Applications and Materials Science, 2005, 202, 816-819.	1.8	4
143	Low-Temperature Transport in AlGaN/GaN 2D Electron Systems. AIP Conference Proceedings, 2005, , .	0.4	0
144	Influence of Small Doses of Gamma Irradiation on Transport and Noise Properties of SiC MESFETs. AIP Conference Proceedings, 2005, , .	0.4	0

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146	Subnanosecond Current Kinetics under Hot Carrier Transport in AlGaN/GaN Heterostructures. AIP Conference Proceedings, 2005, , .	0.4	0
147	Dynamic redistribution of the electric field of the channel in AlGaNâˆ•GaN high electron mobility transistor with nanometer-scale gate length. Applied Physics Letters, 2005, 87, 192110.	3.3	3
148	TRANSPORT AND NOISE FEATURES IN AlGaN/GaN FIELD EFFECT TRANSISTOR WITH NANOMETER-SCALING GATE LENGTH. International Journal of Nanoscience, 2005, 04, 1001-1006.	0.7	0
149	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
150	Dependence of magnetic penetration depth on the thickness of superconducting Nb thin films. Physical Review B, 2005, 72, .	3.2	197
151	Microwave impedance characterization of large-area HTS films: a novel approach. Superconductor Science and Technology, 2004, 17, 899-903.	3.5	14
152	Hot-electron transport in AlGaNâˆ•GaN two-dimensional conducting channels. Applied Physics Letters, 2004, 85, 5421-5423.	3.3	28
153	LOW FREQUENCY NOISE PARAMETERS IN AN AlGaN/GaN HETEROSTRUCTURE WITH 33% AND 75% Al MOLE FRACTION. International Journal of High Speed Electronics and Systems, 2004, 14, 762-768.	0.7	3
154	Resonance and current instabilities in AlN/GaN resonant tunnelling diodes. Physica E: Low-Dimensional Systems and Nanostructures, 2004, 21, 752-755.	2.7	19
155	Peculiarities of the thickness dependence of the superconducting properties of thin Nb films. Physica C: Superconductivity and Its Applications, 2004, 408-410, 700-702.	1.2	11
156	Equilibrium and non-equilibrium 1/f noise in AlGaN/GaN TLM structures. Applied Surface Science, 2004, 238, 143-146.	6.1	2
157	Power and temperature dependence of low frequency noise in AlGaNâˆ•GaN transmission line model structures. Journal of Applied Physics, 2004, 96, 5625-5630.	2.5	11
158	The investigation of properties of electron transport in AlGaN/GaN heterostructures. Microelectronics Journal, 2003, 34, 575-577.	2.0	3
159	Effects ofÎ³-irradiation on AlGaN/GaN-based HEMTs. Physica Status Solidi A, 2003, 195, 101-105.	1.7	49
160	Currentâ€“voltage instabilities in GaN/AlGaN resonant tunnelling structures. Physica Status Solidi C: Current Topics in Solid State Physics, 2003, 0, 2389-2392.	0.8	52
161	Hot-electron transport in IIIâ€“V nitride based two-dimensional gases. Physica Status Solidi C: Current Topics in Solid State Physics, 2003, 0, 2408-2411.	0.8	0
162	Two-Dimensional Electron Dynamics in GaN/AlGaN Heterostructures. Physica Status Solidi C: Current Topics in Solid State Physics, 2003, 0, 401-404.	0.8	1

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164	Separation of hot-electron and self-heating effects in two-dimensional AlGaN/GaN-based conducting channels. Applied Physics Letters, 2003, 82, 748-750.	3.3	54
165	Accurate microwave technique of surface resistance measurement of large-area HTS films using sapphire quasi-optical resonator. IEEE Transactions on Applied Superconductivity, 2003, 13, 3570-3573.	1.7	62
166	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
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169	Photoresponse spectra in p-i-n diodes containing quantum dots. Nanotechnology, 2002, 13, 94-96.	2.6	6
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