Yury A Mityagin

List of Publications by Year
in descending order

60	227	1039406 9	1125271 13
papers	citations	h-index	g-index

60	60	60	150
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Tracing Air-Breakdown Plasma Characteristics from Single-Color Filament Terahertz Spectra. Journal of Infrared, Millimeter, and Terahertz Waves, 2020, 41, 1105-1113.	1.2	5
2	Resonant tunneling in GaAs/AlGaAs quantum well system for solar photovoltaics. Superlattices and Microstructures, 2020, 140, 106472.	1.4	3
3	Similarity of angular distribution for THz radiation emitted by laser filament plasma channels of different lengths. Optics Letters, 2020, 45, 4009.	1.7	9
4	Terahertz emission from a single-color ultraviolet filament. Laser Physics Letters, 2019, 16, 105403.	0.6	4
5	â€˜Forbiddenâ€™ intersubband optical transitions in quantum well structures in a tilted magnetic field. Journal of Physics Communications, 2018, 2, 085019.	0.5	1
6	Resonant tunneling GaAs/AlGaAs quantum well structures for p-i-n photovoltaic cells. Bulletin of the Lebedev Physics Institute, 2017, 44, 72-76.	0.1	1
7	Electrically stimulated high-frequency replicas of a resonant current in GaAs/AlAs resonant-tunneling double-barrier THz nanostructures. , 2016, , .		0
8	The study of photocurrent and power of THz radiation photoconductive antennas based on GaAs dependence on geometry of focusing and radiation parametres of femtosecond laser. Journal of Physics: Conference Series, 2016, 737, 012020.	0.3	0
9	Intersubband optical absorption in quantum well structures in tilted magnetic field. , 2016, , .		0
10	A method for nonlinear-optical calibration of the terahertz wave spectral brightness. , 2016, , .		0
11	Development of GaAs/AlGaAs quantum well structures providing a resonant tunneling regime in an electric field of p-i-n junction. Materials Today: Proceedings, 2016, 3, 2744-2747.	0.9	2
12	Terahertz continuous wave nonlinear-optical detection without phase-locking between a source and the detector. Optics Letters, 2016, 41, 4075.	1.7	14
13	Spatial-Dispersion Eigenvalues for Permittivity Operator of Conductors and Superconductors in a Microwave Field. Journal of Low Temperature Physics, 2016, 185, 495-501.	0.6	2
14	The spatially dispersive eigenvalues of permittivity operator and frequency-dependent surface impedance for conductors without the dc dissipation. , 2016, , .		1
15	Mechanism of energy relaxation in the system of Landau levels in quantum wells. JETP Letters, 2015, 102, 678-682.	0.4	6
16	Measurements of the Transmission Coefficient of Samples of New Materials in the Sub-terahertz Band of Frequencies. Measurement Techniques, 2015, 58, 163-166.	0.2	0
17	Energy relaxation mechanism in Landau level system of quantum wells. Bulletin of the Lebedev Physics Institute, 2015, 42, 343-345.	0.1	0
18	Intersubband population inversion in landau level system in resonant tunneling quantum well structures with asymmetric double quantum well period. JETP Letters, 2015, 100, 644-647.	0.4	2

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19	Dynamic characteristics of â€œlow-temperatureâ€•gallium arsenide for terahertz-range generators and detectors. Bulletin of the Lebedev Physics Institute, 2015, 42, 121-126.	0.1	3
20	Tunable inter-Landau-level lasing in resonant tunneling multiple quantum well structures. , 2014, , .		0
21	Carrier kinetics and population inversion in Landau level system in cascade GaAs/AlGaAs quantum well structures. Optical and Quantum Electronics, 2014, 46, 759-767.	1.5	9
22	Conducting media with spatial dispersion in a microwave field: eigenvalue problem for permittivity operator. , 2014, , .		1
23	Carrier dynamics and stimulated radiative terahertz transitions between Landau levels in cascade GaAs/AlGaAs quantum well structures. Physics of the Solid State, 2013, 55, 2154-2160.	0.2	1
24	Comprehensive study of structural and optical properties of LT-GaAs epitaxial structures. Bulletin of the Lebedev Physics Institute, 2013, 40, 219-224.	0.1	3
25	Resonant-tunneling structure of quantum wells in the p-i-n photovoltaic element. Bulletin of the Lebedev Physics Institute, 2013, 40, 346-353.	0.1	3
26	A Method of Measuring the Power of Sub-Terahertz and Terahertz Radiation Using Resonant Tunneling Diodes. Measurement Techniques, 2013, 56, 856-860.	0.2	1
27	The novel THz generation and detection possibilities of resonant-tunneling based semiconductor multiple-quantum well nanostructures. Proceedings of SPIE, 2013, , .	0.8	1
28	Intersubband terahertz transitions in Landau level system of cascade GaAs/AlGaAs quantum well structures in strong tilted magnetic field. Nanoscale Research Letters, 2012, 7, 491.	3.1	9
29	Temperature enhancement of terahertz responsivity of plasma field effect transistors. Journal of Applied Physics, 2012, 112, .	1.1	32
30	Nonlinear quantum mode of terahertz electromagnetic wave amplification in resonant tunneling heterostructures. Bulletin of the Lebedev Physics Institute, 2011, 38, 339-344.	0.1	0
31	Intersubband population inversion and stimulated terahertz transitions between Landau levels in resonant tunneling multiple quantum well structures. Journal of Physics: Conference Series, 2011, 334, 012059.	0.3	0
32	Intersubband population inversion and induced transitions between the Landau levels in resonance-tunneling multiple quantum-well structures. JETP Letters, 2010, 92, 401-404.	0.4	13
33	Intersubband population inversion and stimulated terahertz transitions between Landau levels in resonant tunneling multiple quantum well structures. , 2010, , .		0
34	Terahertz detection by InGaAs HEMTs in quantizing magnetic fields: Relation between magnetoresistance and photovoltaic response. , 2010, , .		0
35	Terahertz response of InGaAs field effect transistors in quantizing magnetic fields. Applied Physics Letters, 2010, 97, .	1.5	14
36	High-frequency response and the possibility of detecting the quantum amplification mode in resonant-tunneling diode structures. Bulletin of the Lebedev Physics Institute, 2009, 36, 14-20.	0.1	1

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37	On the effect of the electron distribution in the near-contact region and asymmetry of the resonant-tunneling diode structure on the high-frequency response and the possibility of detecting the quantum amplification mode in an external high-frequency electric field. Bulletin of the Lebedev Physics Institute, 2009, 36, 21-28.	0.1	1
38	Terahertz wide range tunable cyclotron resonance p-Ge laser. Journal of Physics: Conference Series, 2009, 193, 012064.	0.3	4
39	SEQUENTIAL RESONANT TUNNELING BETWEEN LANDAU LEVELS IN GaAsAlGaAs SUPERLATTICES IN STRONG TILTED MAGNETIC AND ELECTRIC FIELDS. International Journal of Modern Physics B, 2007, 21, 1594-1599.	1.0	3
40	Time dependent model of resonant tunneling in multiple-wide-quantum-well structures with homogeneous and nonhomogeneous interfaces. AIP Conference Proceedings, 2007, , .	0.3	0
41	Photoluminescence characterization technique for resonant-tunneling structures based on a long-period GaAs/AlGaAs superlattice, applicable at different stages of fabrication. Russian Microelectronics, 2007, 36, 227-240.	0.1	0
42	Recombination Kinetics of the Dielectric Metastable EH-Liquid and Photoluminescence Spectra of Ge:Sb Samples. AIP Conference Proceedings, 2007, , .	0.3	0
43	<title>Rearrangement of resonant-tunneling structure in the electric field revealed by complementary photoluminescence and vertical transport characterization of the GaAs/AlGaAs long-period superlattices</title>. , 2006, , .		0
44	Resonant tunneling in weakly coupled GaAs/AlGaAs superlattices in a transverse magnetic field: A probe of electronic distribution function. Physica E: Low-Dimensional Systems and Nanostructures, 2006, 32, 297-300.	1.3	3
45	Resonant tunneling transport through GaAs/AlGaAs superlattices in strong tilted magnetic field. Journal of Experimental and Theoretical Physics, 2006, 103, 428-435.	0.2	4
46	Spectrum of an electron in a quantum well in high inclined magnetic field and high transverse electric field. Semiconductors, 2006, 40, 581-586.	0.2	7
47	Magnetic field control of resonant tunnelling and electric field domain stability in wide quantum well GaAs/AlGaAs superlattices. Semiconductor Science and Technology, 2004, 19, S48-S50.	1.0	1
48	A microscopic model of sequential resonant tunneling transport through weakly coupled superlattices. Journal of Experimental and Theoretical Physics, 2004, 99, 620-632.	0.2	3
49	Transformation kinetics of electric field domains in weakly coupled GaAs/AlGaAs superlattices in a transverse electric field. Semiconductors, 2004, 38, 1312-1315.	0.2	1
50	<title>Photoluminescence characterization of resonant-tunneling diodes based on the GaAs/AlGaAs long-period superlattices in the process of fabrication</title>. , 2004, 5401, 579.		0
51	Intersubband population inversion under resonance tunnelling in wide quantum well structures. Nanotechnology, 2000, 11, 211-214.	1.3	2
52	Optical intersubband transitions in strained quantum wells utilizing In1â^'x GaxAs/InP solid solutions. Semiconductors, 1999, 33, 72-79.	0.2	0
53	Sequential excited-to-excited states resonant tunneling and electric field domains in long period superlattices. Applied Physics Letters, 1997, 70, 3008-3010.	1.5	10
54	Resonance tunneling via excited subbands and the existence of a new type of electric-field domains in long-period superlattices. JETP Letters, 1997, 65, 852-856.	0.4	0

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55	Current hysteresis collapse and the formation condition for electric-field domains in lightly doped superlattices. JETP Letters, 1996, 64, 155-161.	0.4	9
56	Cyclotron resonance submillimeter laser emission in hot hole Landau level system in uniaxially stressed p-germanium. Physica Scripta, 1994, 49, 699-703.	1.2	2
57	Anisotropy and uniaxial stress effects in submillimetre stimulated emission spectra of hot holes in germanium in strong E perpendicular to H fields. Semiconductor Science and Technology, 1992, 7, B641-B644.	1.0	8
58	Quantum effects in submillimetre hot hole semiconductor lasers. Optical and Quantum Electronics, 1991, 23, S287-S306.	1.5	18
59	Wide-range tunable sub-millimetre cyclotron resonance laser. Optical and Quantum Electronics, 1991, 23, S307-S311.	1.5	9
60	Polariton-like stimulated excitations in rectifying terahertz GaAs/AlAs double barrier nanostructures driven by nonequilibrity of the resonant-tunneling proces. IOP Conference Series: Materials Science and Engineering, 0, 475, 012031.	0.3	1