Vladimir A Kukushkin

List of Publications by Year
in descending order

37	54	1937457 4	1719901 7
papers	citations	h-index	g-index

37	37	37	64
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A Phenomenological Model of Mott's Insulatorâ€“Metal Phase Transition in 3D and 2D Boronâ€Đoped Diamond. Physica Status Solidi (B): Basic Research, 2020, 257, 1900748.	0.7	1
2	Bragg superlattice for obtaining individual photoluminescence of diamond color centers in dense 3D ensembles. Applied Physics A: Materials Science and Processing, 2017, 123, 1.	1.1	1
3	The dependence of relaxation kinetics of photoluminescence from interband transitions in InGaAs/GaAs quantum wells on their distance from an interface with Au. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2017, 123, 754-759.	0.2	0
4	A CVD Diamond-Based Photodetector for the Visible and Near-IR Spectral Range. Technical Physics Letters, 2017, 43, 1121-1123.	0.2	3
5	Nanoheterostructures with improved parameters for high-speed and efficient plasmon-polariton light emitting Schottky diodes. Semiconductors, 2016, 50, 1554-1560.	0.2	2
6	Diagnostics of the efficiency of surface plasmon-polariton excitation by quantum dots via polarization measurements of the output radiation. Semiconductors, 2015, 49, 785-790.	0.2	1
7	Extension of the radiative lifetime of Wannier-Mott excitons in semiconductor nanoclusters. Semiconductors, 2015, 49, 75-80.	0.2	0
8	Simulation of CVD diamond-based high speed near-infrared photodetectors. Diamond and Related Materials, 2015, 60, 94-98.	1.8	6
9	Delta-layer doping profile in diamond providing high carrier mobility. Physica Status Solidi - Rapid Research Letters, 2014, 8, 876-879.	1.2	8
10	Radiative Lifetime of Wannierâ€”Mott Excitons in Nanoclusters of Semiconductors with Direct- and Indirect Band Structures. Radiophysics and Quantum Electronics, 2013, 56, 446-455.	0.1	0
11	Simulation of ultraviolet- and soft X-ray-pulse generation as a result of cooperative recombination of excitons in diamond nanocrystals embedded in a polymer film. Semiconductors, 2013, 47, 1442-1446.	0.2	1
12	Numerical simulation of a far-infrared fountain laser on modulation-doped nanoheterostructures with quantum wells. Nanotechnologies in Russia, 2012, 7, 527-530.	0.7	0
13	Analytical description of the Stokes coherent cooperative Raman scattering by a subwavelength sample. Journal of Modern Optics, 2012, 59, 1142-1148.	0.6	0
14	Generation of frequency-tunable far-infrared and terahertz radiation by optical nutations at intraband transitions in asymmetric semiconductor nanoheterostructures. Semiconductors, 2012, 46, 1487-1492.	0.2	0
15	Proposal for an unstrained nanoheterolaser generating a mainly TM-polarized radiation. Optics Communications, 2012, 285, 734-737.	1.0	0
16	Efficient infrared-terahertz pulse conversion in waveguide semiconductor structures. Semiconductors, 2010, 44, 106-111.	0.2	1
17	Inversionless amplification in semiconductor nanostructures: A way to create a frequency-tunable laser of far-infrared and terahertz radiation. Semiconductors, 2010, 44, 1435-1440.	0.2	1
18	Tunable inversionless laser for the far-infrared and terahertz range based on nanoheterostructures with quantum wells. Technical Physics Letters, 2010, 36, 96-99.	0.2	0

#	Article	IF	Citations
19	Proposal for an Inversionless Tunable Far-Infrared and THz Room-Temperature Laser on a Quantum Well Semiconductor Nanostructure. IEEE Journal of Quantum Electronics, 2010, 46, 666-673.	1.0	1
20	How to achieve lasing in a system with the strong lifetime broadening of working levels?. Physics Letters, Section A: General, Atomic and Solid State Physics, 2010, 374, 687-690.	0.9	0
21	Two-color optical and mid-IR quantum-well laser. Bulletin of the Russian Academy of Sciences: Physics, 2009, 73, 101-106.	0.1	0
22	Generation of terahertz radiation in high-quality diamond samples. Physics of the Solid State, 2009, 51, 1821-1827.	0.2	0
23	Generation of mid-IR radiation in near-IR semiconductor lasers based on low-dimensional heterostructures. Journal of Experimental and Theoretical Physics, 2008, 106, 450-458.	0.2	0
24	Periodic formation of transient population inversion for intersubband laser transitions in quantum wells. Semiconductors, 2008, 42, 794-799.	0.2	0
25	Optical rectification of highly focused near-IR pulses in the plasmon waveguide. Technical Physics, 2008, 53, 1327-1331.	0.2	0
26	Weak-field nonlinear dynamic conductivity in a quantum well with a transverse magnetic field. JETP Letters, 2008, 88, 103-106.	0.4	1
27	Proposal for Room-Temperature Generation of Midinfrared Radiation in Near-Infrared Quantum-Well Heterolasers. IEEE Photonics Technology Letters, 2008, 20, 481-483.	1.3	0
28	Generation of terahertz pulses from tightly focused single near-infrared pulses in double-plasmon waveguides. Journal of the Optical Society of America B: Optical Physics, 2008, 25, 818.	0.9	1
29	First experiments and prospects of intracavity difference -frequency generation of mid/far-infrared and terahertz radiation in diode lasers. , 2008, , .		1
30	Two-color interband and intraband quantum well heterolaser. Physical Review A, 2008, 78, .	1.0	0
31	Periodic Transient Inversion at Intersubband Laser Transitions in Quantum Wells in an External Electric Field. IEEE Nanotechnology Magazine, 2008, 7, 344-350.	1.1	0
32	Efficient amplification of mid- to far-infrared pulses due to optical pulse conversion in waveguiding quantum-well heterostructures. Physical Review A, 2007, 76, .	1.0	1
33	Difference-frequency pulse generation in quantum well heterolasers. Laser Physics, 2007, 17, 688-694.	0.6	2
34	Efficient generation of terahertz pulses from single infrared beams in C/GaAs/C waveguiding heterostructures. Journal of the Optical Society of America B: Optical Physics, 2006, 23, 2528.	0.9	13
35	Photon absorption in a magnetized vacuum and formation of cyclotron-annihilation lines in Î³-emission of neutron stars. Advances in Space Research, 2004, 33, 620-624.	1.2	1
36	Spontaneous Polarization of a Gas of Two-Level Molecules and the Gibbs Quasi-Energy Distribution. Radiophysics and Quantum Electronics, 2001, 44, 161-175.	0.1	6

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37	Meissner effect in supercoducting cores of neutron stars. Radiophysics and Quantum Electronics, 1996, 39, 18-22.	0.1	2