

Denis V Marin

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Photodiodes based on p-on-n junctions formed in MBE-grown n-type MCT absorber layers for the spectral region 8 to 11 μm . Infrared Physics and Technology, 2020, 105, 103182.	2.9	8
2	Direct comparison of the results of arsenic ion implantation in n ⁺ and p ⁺ type Hg _{0.8} Cd _{0.2} Te. Infrared Physics and Technology, 2020, 109, 103388.	2.9	3
3	Nano-size defects in arsenic-implanted HgCdTe films: a HRTEM study. Applied Nanoscience (Switzerland), 2019, 9, 725-730.	3.1	12
4	A Megapixel Matrix Photodetector of the Middle Infrared Range. Journal of Communications Technology and Electronics, 2019, 64, 1011-1015.	0.5	5
5	Effect of annealing on the structural properties of arsenic-implanted mercury cadmium telluride. Opto-electronics Review, 2019, 27, 14-17.	2.4	2
6	Ellipsometric Method for Measuring the CdTe Buffer-Layer Temperature in the Molecular-Beam Epitaxy of CdHgTe. Semiconductors, 2019, 53, 132-137.	0.5	4
7	Electrical profiling of arsenic-implanted HgCdTe films performed with discrete mobility spectrum analysis. Semiconductor Science and Technology, 2019, 34, 035009.	2.0	10
8	Photoluminescence of Molecular Beam Epitaxy-Grown Mercury Cadmium Telluride: Comparison of HgCdTe/GaAs and HgCdTe/Si Technologies. Journal of Electronic Materials, 2018, 47, 4731-4736.	2.2	10
9	Electrical properties of the Hg _{0.7} Cd _{0.3} Te films grown by MBE method on Si(111) substrates. Infrared Physics and Technology, 2018, 94, 11-15.	2.9	5
10	HgCdTe p-n structures grown by MBE on Si (013) substrates for high operating temperature SWIR detectors. Physica Status Solidi C: Current Topics in Solid State Physics, 2016, 13, 651-655.	0.8	5
11	Acceptor states in HgCdTe films grown by molecular beam epitaxy on GaAs and Si substrates. Physica Status Solidi C: Current Topics in Solid State Physics, 2016, 13, 469-472.	0.8	2
12	CdHgTe heterostructures for new-generation IR photodetectors operating at elevated temperatures. Semiconductors, 2016, 50, 1626-1629.	0.5	4
13	Electrophysical properties of Cd _x Hg _{1-x} Te (x = 0.3) films grown by molecular beam epitaxy on Si(013) substrates. Physics of the Solid State, 2016, 58, 641-646.	0.6	1
14	Luminescence in GeO _x films containing germanium nanoclusters. Nanotechnologies in Russia, 2016, 11, 325-330.	0.7	3
15	Methodological and instrumental problems in high-precision in situ ellipsometry diagnostics of the mercury cadmium telluride layer composition in molecular beam epitaxy. Instruments and Experimental Techniques, 2016, 59, 857-864.	0.5	5
16	The electrical properties of HgCdTe layers grown by MBE on Si and P + / n junction formed on its basis. , 2016, , .		2
17	Electrical and optical studies of a tellurium-related defect in molecular beam epitaxy-grown HgCdTe. Physica Status Solidi C: Current Topics in Solid State Physics, 2016, 13, 461-464.	0.8	1
18	High operating temperature SWIR p-n FPA based on MBE-grown HgCdTe/Si(0 1 3). Infrared Physics and Technology, 2016, 76, 72-74.	2.9	20

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19	Defects in mercury-cadmium telluride heteroepitaxial structures grown by molecular-beam epitaxy on silicon substrates. <i>Semiconductors</i> , 2016, 50, 208-211.	0.5	5
20	Acceptor states and carrier lifetime in heteroepitaxial HgCdTe-on-Si for mid-infrared photodetectors. <i>Journal of Physics: Conference Series</i> , 2015, 643, 012004.	0.4	3
21	The reverse current temperature dependences of SWIR CdHgTe ϵ -on-n ϵ - and ϵ -on-p ϵ -junctions. <i>Infrared Physics and Technology</i> , 2015, 73, 312-315.	2.9	16
22	Applying an improved phonon confinement model to the analysis of Raman spectra of germanium nanocrystals. <i>Journal of Experimental and Theoretical Physics</i> , 2014, 118, 65-71.	0.9	69
23	Defects in heteroepitaxial CdHgTe/Si layers and their behavior under conditions of implanted p+-n photodiode structure formation. <i>Technical Physics Letters</i> , 2014, 40, 708-711.	0.7	5
24	Phase separation as a basis for the formation of light-emitting silicon nanoclusters in SiO _x films irradiated with swift heavy ions. <i>Optoelectronics, Instrumentation and Data Processing</i> , 2014, 50, 292-297.	0.6	1
25	CdHgTe heterostructures on large-area Si(310) substrates for infrared photodetector arrays of the short-wavelength spectral range. <i>Semiconductors</i> , 2014, 48, 767-771.	0.5	5
26	Formation of Ge and GeSi nanocrystals in GeO _x /SiO ₂ multilayers. <i>Journal Physics D: Applied Physics</i> , 2013, 46, 275305.	2.8	28
27	Influence of irradiation with swift heavy ions on multilayer Si/SiO ₂ heterostructures. <i>Semiconductors</i> , 2013, 47, 358-364.	0.5	3
28	Light-emitting Si nanostructures formed by swift heavy ions in stoichiometric SiO ₂ layers. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2012, 282, 68-72.	1.4	9
29	Anomalous temperature dependence of photoluminescence in GeO _x films and GeO _x /SiO ₂ nano-heterostructures. <i>JETP Letters</i> , 2012, 95, 424-428.	1.4	9
30	The effect of composition on the formation of light-emitting Si nanostructures in SiO _x layers on irradiation with swift heavy ions. <i>Semiconductors</i> , 2011, 45, 408-414.	0.5	2
31	Formation of light-emitting nanostructures in layers of stoichiometric SiO ₂ irradiated with swift heavy ions. <i>Semiconductors</i> , 2011, 45, 1311-1316.	0.5	3
32	Light-emitting Si nanostructures formed in SiO ₂ on irradiation with swift heavy ions. <i>Semiconductors</i> , 2010, 44, 525-530.	0.5	3
33	Modification of germanium nanoclusters in GeO _x films during isochronous furnace and pulse laser annealing. <i>Technical Physics Letters</i> , 2010, 36, 439-442.	0.7	7
34	Light-emitting Si nanostructures formed in silica layers by irradiation with swift heavy ions. <i>Applied Physics A: Materials Science and Processing</i> , 2010, 98, 873-877.	2.3	8
35	Anisotropic Strain ϵ Anisotropic Heating Engineering for Silicon Nanocrystals in SiO ₂ . <i>Solid State Phenomena</i> , 2009, 156-158, 523-528.	0.3	4
36	Effect of pressure annealing on formation of light-emitting Si nanocrystals in Si rich SiO ₂ . <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2009, 206, 78-83.	1.8	2

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37	Quasi-direct optical transitions in Ge nanocrystals embedded in GeO ₂ matrix. JETP Letters, 2009, 89, 76-79.	1.4	4
38	Ellipsometry of GeO ₂ films with Ge nanoclusters: Influence of the quantum-size effect on refractive index. Optics and Spectroscopy (English Translation of Optika i Spektroskopiya), 2009, 106, 436-440.	0.6	6
39	Structure and optical properties of SiN _x :H films with Si nanoclusters produced by low-frequency plasma-enhanced chemical vapor deposition. Semiconductors, 2009, 43, 1514-1520.	0.5	17
40	The modification of Si nanocrystallites embedded in a dielectric matrix by high energy ion irradiation. Nanotechnology, 2009, 20, 095205.	2.6	12
41	The electrical properties of MOS-structures with silicon nanoballs incrustated in SiO ₂ layer. , 2009, , .		0
42	Photoinduced Variation of Capacitance Characteristics of MDS Structures with Three-Layer SiN _x :H Dielectrics. Solid State Phenomena, 2008, 131-133, 461-466.	0.3	1
43	Modification of Silicon Nanocrystals Embedded in an Oxide by High Energy Ion Implantation. Solid State Phenomena, 2008, 131-133, 541-546.	0.3	3
44	Structure and optical properties of silicon nanopowders. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2008, 147, 222-225.	3.5	20
45	SiO _x layer formation during plasma sputtering of Si and SiO ₂ targets. Semiconductors, 2008, 42, 731-736.	0.5	11
46	Effect of the ion-energy loss rate on defect formation during implantation in silicon nanocrystals. Semiconductors, 2008, 42, 1127-1131.	0.5	3
47	Formation of light-emitting Si nanostructures in SiO ₂ by pulsed anneals. Nanotechnology, 2008, 19, 355305.	2.6	21
48	High Volume Synthesis of Silicon Nanopowder by Electron Beam Ablation of Silicon Ingot at Atmospheric Pressure. Japanese Journal of Applied Physics, 2008, 47, 7019-7022.	1.5	5
49	Falling down capacitance impedance under light illumination of MDS-structures with three-layer SiN _x :H dielectrics. Proceedings of SPIE, 2008, , .	0.8	1
50	Ge nanoclusters in GeO ₂ : formation and optical properties. , 2006, 6260, 298.		1
51	Electronic transport through silicon nanocrystals embedded in SiO ₂ matrix. , 2006, , .		0
52	Electrical properties and photoluminescence of SiO _x layers with Si nanocrystals in relation to the SiO _x composition. Semiconductors, 2006, 40, 1198-1203.	0.5	17
53	Optical properties of silicon nanopowders formed using power electron beam evaporation. , 2006, , .		1
54	Modification of photoluminescence and charge in oxide with silicon nanocrystals by high energy ion implantation. , 2006, , .		0

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55	The formation of silicon nanocrystals in SiO ₂ layers by the implantation of Si ions with intermediate heat treatments. Semiconductors, 2005, 39, 552-556.	0.5	12
56	Coulomb blockade of the conductivity of SiO _x films due to one-electron charging of a silicon quantum dot in a chain of electronic states. Semiconductors, 2005, 39, 910-916.	0.5	6
57	Effect of Quantum Confinement on Optical Properties of Ge Nanocrystals in GeO ₂ Films. Semiconductors, 2005, 39, 1168.	0.5	51
58	Ge Nanoclusters in GeO ₂ : Synthesis and Optical Properties. Solid State Phenomena, 2005, 108-109, 83-90.	0.3	3
59	Laser Assisted Formation on Nanocrystals in Plasma-Chemical Deposited SiN _x Films. Solid State Phenomena, 2005, 108-109, 53-58.	0.3	3
60	Blue Photoluminescence from Quantum Size Silicon Nanopowder. Solid State Phenomena, 2005, 108-109, 65-70.	0.3	1
61	Laser Crystallization of Thin a-Si Films on Plastic Substrates Using Excimer Laser Treatments. Solid State Phenomena, 2004, 95-96, 29-34.	0.3	0
62	Visible photoluminescence from silicon nanopowders produced by silicon evaporation in a high-power electron beam. JETP Letters, 2004, 80, 544-547.	1.4	14
63	Structure and photoluminescence study of type-II GaAs quantum wires and dots grown on nano-faceted (311)A surface. Physica E: Low-Dimensional Systems and Nanostructures, 2004, 23, 461-465.	2.7	3
64	Ge quantum dots in anomalous thick native germanium oxide layers. , 2004, , .		0
65	Photoluminescence of GeO ₂ films containing germanium nanocrystals. JETP Letters, 2003, 77, 411-414.	1.4	15
66	Nanocrystalline silicon films formed under the impact of pulsed excimer laser radiation on polyimide substrates. Technical Physics Letters, 2003, 29, 569-571.	0.7	1
67	Coulomb Blockade in Silicon Nanocrystals Embedded in SiO ₂ Matrix. Solid State Phenomena, 2003, 95-96, 629-634.	0.3	2