

# Dmitry Donetsky

## List of Publications by Year in descending order

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13  
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docs citations

13  
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268  
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#	ARTICLE	IF	CITATIONS
1	Carrier lifetime measurements in short-period InAs/GaSb strained-layer superlattice structures. Applied Physics Letters, 2009, 95, .	3.3	124
2	Minority carrier lifetime in type-2 InAs/GaSb strained-layer superlattices and bulk HgCdTe materials. Applied Physics Letters, 2010, 97, .	3.3	109
3	Metamorphic InAsSb-based barrier photodetectors for the long wave infrared region. Applied Physics Letters, 2013, 103, .	3.3	30
4	Metamorphic InAsSb/AlInAsSb heterostructures for optoelectronic applications. Applied Physics Letters, 2013, 102, .	3.3	28
5	Development of Bulk InAsSb Alloys and Barrier Heterostructures for Long-Wave Infrared Detectors. Journal of Electronic Materials, 2015, 44, 3360-3366.	2.2	27
6	Effect of Quantum Well Compressive Strain Above 1% On Differential Gain and Threshold Current Density in Type-I GaSb-Based Diode Lasers. IEEE Journal of Quantum Electronics, 2008, 44, 1204-1210.	1.9	26
7	Conduction- and Valence-Band Energies in Bulk $\text{InAs}_{1-x}\text{Sb}_x$ and Type-II $\text{InAs}_{1-x}\text{Sb}_x/\text{InAs}$ Strained-Layer Superlattices. Journal of Electronic Materials, 2013, 42, 918-926.	2.2	26
8	Materials design parameters for infrared device applications based on III-V semiconductors. Applied Optics, 2017, 56, B58.	2.1	15
9	Unrelaxed bulk InAsSb with novel absorption, carrier transport, and recombination properties for MWIR and LWIR photodetectors. Proceedings of SPIE, 2012, , .	0.8	9
10	Transport properties of holes in bulk InAsSb and performance of barrier long-wavelength infrared detectors. Semiconductor Science and Technology, 2014, 29, 112002.	2.0	7
11	Electrical modulation of the LWIR absorption and refractive index in InAsSb-based strained layer superlattice heterostructures. Journal of Applied Physics, 2020, 128, 083101.	2.5	3
12	Perspective on advances in InAsSb type II superlattices grown on virtual substrates. Applied Physics Letters, 2020, 117, .	3.3	3
13	Structural and Optical Characteristics of Metamorphic Bulk InAsSb. International Journal of High Speed Electronics and Systems, 2014, 23, 1450021.	0.7	0