

# G V Budkin

## List of Publications by Year in descending order

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22  
papers

290  
citations

1039880

9  
h-index

887953

17  
g-index

22  
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22  
docs citations

22  
times ranked

302  
citing authors

#	ARTICLE	IF	CITATIONS
1	Cyclotron-resonance-assisted photocurrents in surface states of a three-dimensional topological insulator based on a strained high-mobility HgTe film. <i>Physical Review B</i> , 2015, 92, .	1.1	74
2	Giant photocurrents in a Dirac fermion system at cyclotron resonance. <i>Physical Review B</i> , 2013, 87, .	1.1	65
3	Strongly Confined Excitons in GaN/AlN Nanostructures with Atomically Thin GaN Layers for Efficient Light Emission in Deep-Ultraviolet. <i>Nano Letters</i> , 2020, 20, 158-165.	4.5	22
4	Symmetry breaking and circular photogalvanic effect in epitaxial $\text{Cd}_{1-x}\text{Mn}_x\text{Te}$ films. <i>Physical Review Materials</i> , 2020, 4, .	0.9	11
5	Magnetic quantum ratchet effect in (Cd,Mn)Te- and CdTe-based quantum well structures with a lateral asymmetric superlattice. <i>Physical Review B</i> , 2017, 95, .	1.1	15
6	Ratchet transport of a two-dimensional electron gas at cyclotron resonance. <i>Physical Review B</i> , 2016, 93, .	1.1	14
7	Orbital magnetic ratchet effect. <i>Physical Review B</i> , 2014, 90, .	1.1	13
8	Magnetic ratchet effects in a two-dimensional electron gas. <i>JETP Letters</i> , 2016, 104, 649-656.	0.4	11
9	Cyclotron-resonance-assisted photon drag effect in InSb/InAlSb quantum wells excited by terahertz radiation. <i>Physical Review B</i> , 2014, 89, .	1.1	10
10	Terahertz Magnetospectroscopy of Cyclotron Resonances from Topological Surface States in Thick Films of $\text{Cd}_{1-x}\text{Hg}_x\text{Te}$ . <i>Physica Status Solidi (B): Basic Research</i> , 2021, 258, 2000023.	0.7	8
11	Charge and energy transfer in double asymmetric quantum wells with quantum dots. <i>Journal of Experimental and Theoretical Physics</i> , 2017, 124, 740-750.	0.2	7
12	High-frequency impact ionization and nonlinearity of photocurrent induced by intense terahertz radiation in HgTe-based quantum well structures. <i>Physical Review B</i> , 2019, 99, .	1.1	6
13	Thermal generation of shift electric current. <i>New Journal of Physics</i> , 2020, 22, 013005.	1.2	6
14	Spin splitting in low-symmetry quantum wells beyond Rashba and Dresselhaus terms. <i>Physical Review B</i> , 2022, 105, .	1.1	5
15	Cyclotron-resonance-induced photogalvanic effect in surface states of 200-nm-thick strained HgTe films. <i>Physical Review Materials</i> , 2019, 3, .	0.9	4
16	Impact Ionization Induced by Terahertz Radiation in HgTe Quantum Wells of Critical Thickness. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , 2020, 41, 1155-1169.	1.2	3
17	Heating and cooling of a two-dimensional electron gas by terahertz radiation. <i>Journal of Experimental and Theoretical Physics</i> , 2011, 112, 656-663.	0.2	2
18	Hot exciton relaxation in multiple layers CdSe/ZnSe self-assembled quantum dots separated by thick ZnSe barriers. <i>Journal of Physics: Conference Series</i> , 2015, 643, 012075.	0.3	1

#	ARTICLE	IF	CITATIONS
19	Hot Excitons Contribution into the Photoluminescence of Self-Assembled Quantum Dots in CdSe/ZnSe Heterostructures under Different Excitation Conditions. Semiconductors, 2018, 52, 1795-1797.	0.2	1
20	Hot exciton relaxation in coupled ultra-thin CdTe/ZnTe quantum well structures. Journal of Luminescence, 2021, 230, 117762.	1.5	1
21	The drag of photons by electric current in quantum wells. Journal of Physics Condensed Matter, 2021, 33, 165301.	0.7	1
22	Spin-polarized currents of Dirac fermions at cyclotron resonance. , 2013, , .		0