

Andrei Smirnov

List of Publications by Year in descending order

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18
papers

126
citations

1307594

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1281871

11
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all docs

18
docs citations

18
times ranked

95
citing authors

#	ARTICLE	IF	CITATIONS
1	Critical thickness for the formation of misfit dislocations originating from prismatic slip in semipolar and nonpolar III-nitride heterostructures. <i>APL Materials</i> , 2016, 4, .	5.1	18
2	Generation of rectangular prismatic dislocation loops in shells and cores of composite nanoparticles. <i>Physics of the Solid State</i> , 2014, 56, 731-738.	0.6	17
3	Dislocation loops in solid and hollow semiconductor and metal nanoheterostructures. <i>Physics of the Solid State</i> , 2015, 57, 1177-1182.	0.6	13
4	Initial stages of misfit stress relaxation through the formation of prismatic dislocation loops in GaN/Ga ₂ O ₃ composite nanostructures. <i>Physics of the Solid State</i> , 2016, 58, 1611-1621.	0.6	12
5	Axial misfit stress relaxation in core-shell nanowires with polyhedral cores through the nucleation of misfit prismatic dislocation loops. <i>Journal of Materials Science</i> , 2020, 55, 9198-9210.	3.7	11
6	Stress relaxation in semipolar and nonpolar III-nitride heterostructures by formation of misfit dislocations of various origin. <i>Journal of Applied Physics</i> , 2019, 126, .	2.5	10
7	Misfit stress relaxation in composite core-shell nanowires with parallelepiped cores using rectangular prismatic dislocation loops. <i>Journal of Physics: Conference Series</i> , 2018, 993, 012021.	0.4	8
8	Volume Gallium Oxide Crystals Grown from Melt by the Czochralski Method in an Oxygen-Containing Atmosphere. <i>Technical Physics Letters</i> , 2020, 46, 1144-1146.	0.7	7
9	Growing of bulk $\text{In}_{1-x}\text{Al}_x\text{Ga}_{1-x}\text{Ga}_2\text{O}_3$ crystals from the melt by Czochralski method and investigation of their structural and optical properties. <i>Applied Physics Express</i> , 2022, 15, 025501.	2.4	7
10	Misfit stresses in a composite core-shell nanowire with an eccentric parallelepipedal core subjected to one-dimensional cross dilatation eigenstrain. <i>Journal of Physics: Conference Series</i> , 2017, 816, 012043.	0.4	6
11	Optical Studies of Molecular-Beam Epitaxy-Grown $\text{Hg}_{1-x}\text{Cd}_x\text{Te}$ with $x=0.7-0.8$. <i>Journal of Electronic Materials</i> , 2020, 49, 4642-4646.	2.2	4
12	Misfit stress relaxation in wide bandgap semiconductor heterostructures with trigonal and hexagonal crystal structure. <i>Journal of Applied Physics</i> , 2022, 131, 025301.	2.5	4
13	Initial stages of misfit stress relaxation by rectangular prismatic dislocation loops in composite nanostructures. <i>Journal of Physics: Conference Series</i> , 2014, 541, 012007.	0.4	3
14	Misfit Stress Relaxation in $\text{In}_x\text{Ga}_{2-x}\text{O}_3/\text{Al}_2\text{O}_3$ Heterostructures via Formation of Misfit Dislocations. <i>Physics of the Solid State</i> , 2021, 63, 924-931.	0.6	3
15	Optical and Structural Properties of HgCdTe Solid Solutions with a High CdTe Content. <i>Semiconductors</i> , 2020, 54, 1561-1566.	0.5	2
16	Misfit stresses in a composite core-shell nanowire with an eccentric parallelepipedal core subjected to one-dimensional cross dilatation eigenstrain. <i>Journal of Physics: Conference Series</i> , 2017, 816, 012029.	0.4	1
17	Stress field in core-shell nanowires with 3D dilatational eigenstrain prism core. , 2020, , .		0
18	Spectral and Electrical Properties of LED Heterostructures with InAs-based Active Layer. <i>Semiconductors</i> , 2021, 55, 989-994.	0.5	0