Andrei Smirnov

List of Publications by Year
in descending order

18 papers	126 citations	1307594 7 h-index	1281871 11 g-index
18 all docs	18 docs citations	18 times ranked	95 citing authors

#	Article	IF	Citations
1	Misfit stress relaxation in wide bandgap semiconductor heterostructures with trigonal and hexagonal crystal structure. Journal of Applied Physics, 2022, 131, 025301.	2.5	4
2	Growing of bulk Î²-(Al x Ga1âˆ’x)2O3 crystals from the melt by Czochralski method and investigation of their structural and optical properties. Applied Physics Express, 2022, 15, 025501.	2.4	7
3	Misfit Stress Relaxation in Î±-Ga2O3/Î±-Al2O3 Heterostructures via Formation of Misfit Dislocations. Physics of the Solid State, 2021, 63, 924-931.	0.6	3
4	Spectral and Electrical Properties of LED Heterostructures with InAs-based Active Layer. Semiconductors, 2021, 55, 989-994.	0.5	0
5	Volume Gallium Oxide Crystals Grown from Melt by the Czochralski Method in an Oxygen-Containing Atmosphere. Technical Physics Letters, 2020, 46, 1144-1146.	0.7	7
6	Optical Studies of Molecular-Beam Epitaxy-Grown Hg1âˆ’xCdxTe with xâ€‰=â€‰0.7â€“0.8. Journal of Electronic Materials, 2020, 49, 4642-4646.	2.2	4
7	Axial misfit stress relaxation in coreâ€“shell nanowires with polyhedral cores through the nucleation of misfit prismatic dislocation loops. Journal of Materials Science, 2020, 55, 9198-9210.	3.7	11
8	Optical and Structural Properties of HgCdTe Solid Solutions with a High CdTe Content. Semiconductors, 2020, 54, 1561-1566.	0.5	2
9	Stress field in core-shell nanowires with 3D dilatational eigenstrain prism core. , 2020, , .		0
10	Stress relaxation in semipolar and nonpolar III-nitride heterostructures by formation of misfit dislocations of various origin. Journal of Applied Physics, 2019, 126, .	2.5	10
11	Misfit stress relaxation in composite core-shell nanowires with parallelepiped cores using rectangular prismatic dislocation loops. Journal of Physics: Conference Series, 2018, 993, 012021.	0.4	8
12	Misfit stresses in a composite core-shell nanowire with an eccentric parallelepipedal core subjected to one-dimensional cross dilatation eigenstrain. Journal of Physics: Conference Series, 2017, 816, 012029.	0.4	1
13	Misfit stresses in a composite core-shell nanowire with an eccentric parallelepipedal core subjected to one-dimensional cross dilatation eigenstrain. Journal of Physics: Conference Series, 2017, 816, 012043.	0.4	6
14	Critical thickness for the formation of misfit dislocations originating from prismatic slip in semipolar and nonpolar III-nitride heterostructures. APL Materials, 2016, 4, .	5.1	18
15	Initial stages of misfit stress relaxation through the formation of prismatic dislocation loops in GaNâ€“Ga2O3 composite nanostructures. Physics of the Solid State, 2016, 58, 1611-1621.	0.6	12
16	Dislocation loops in solid and hollow semiconductor and metal nanoheterostructures. Physics of the Solid State, 2015, 57, 1177-1182.	0.6	13
17	Initial stages of misfit stress relaxation by rectangular prismatic dislocation loops in composite nanostructures. Journal of Physics: Conference Series, 2014, 541, 012007.	0.4	3
18	Generation of rectangular prismatic dislocation loops in shells and cores of composite nanoparticles. Physics of the Solid State, 2014, 56, 731-738.	0.6	17