Sergei Novikov

List of Publications by Year in descending order

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		304743	3	302126
79	1,732	22		39
papers	citations	h-index		g-index
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79	79	79		2280
all docs	docs citations	times ranked		citing authors

#	Article	IF	CITATIONS
1	Exciton and Phonon Radiative Linewidths in Monolayer Boron Nitride. Physical Review X, 2022, 12, .	8.9	5
2	Identifying carbon as the source of visible single-photon emission from hexagonal boron nitride. Nature Materials, 2021, 20, 321-328.	27.5	210
3	Epitaxy of boron nitride monolayers for graphene-based lateral heterostructures. 2D Materials, 2021, 8, 034001.	4.4	15
4	Band gap measurements of monolayer h-BN and insights into carbon-related point defects. 2D Materials, 2021, 8, 044001.	4.4	34
5	Step-flow growth of graphene-boron nitride lateral heterostructures by molecular beam epitaxy. 2D Materials, 2020, 7, 035014.	4.4	14
6	Direct band-gap crossover in epitaxial monolayer boron nitride. Nature Communications, 2019, 10, 2639.	12.8	162
7	High-temperature molecular beam epitaxy of hexagonal boron nitride layers. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2018, 36, .	1.2	31
8	Lattice-Matched Epitaxial Graphene Grown on Boron Nitride. Nano Letters, 2018, 18, 498-504.	9.1	39
9	High-Temperature Molecular Beam Epitaxy of Hexagonal Boron Nitride with High Active Nitrogen Fluxes. Materials, 2018, 11, 1119.	2.9	17
10	Moir \tilde{A} ©-Modulated Conductance of Hexagonal Boron Nitride Tunnel Barriers. Nano Letters, 2018, 18, 4241-4246.	9.1	19
11	Van der Waals epitaxy of two-dimensional single-layer h-BN on graphite by molecular beam epitaxy: Electronic properties and band structure. Applied Physics Letters, 2018, 112, .	3.3	50
12	Deep ultraviolet emission in hexagonal boron nitride grown by high-temperature molecular beam epitaxy. 2D Materials, 2017, 4, 021023.	4.4	102
13	Terahertz conductivity of the highly mismatched amorphous alloy, GaNBi. Semiconductor Science and Technology, 2017, 32, 125009.	2.0	1
14	An atomic carbon source for high temperature molecular beam epitaxy of graphene. Scientific Reports, 2017, 7, 6598.	3.3	16
15	Molecular beam epitaxy of free-standing bulk wurtzite AlxGa1-xN layers using a highly efficient RF plasma source. Physica Status Solidi C: Current Topics in Solid State Physics, 2016, 13, 217-220.	0.8	1
16	Hexagonal Boron Nitride Tunnel Barriers Grown on Graphite by High Temperature Molecular Beam Epitaxy. Scientific Reports, 2016, 6, 34474.	3.3	60
17	High temperature MBE of graphene on sapphire and hexagonal boron nitride flakes on sapphire. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2016, 34, .	1.2	22
18	Strain-Engineered Graphene Grown on Hexagonal Boron Nitride by Molecular Beam Epitaxy. Scientific Reports, 2016, 6, 22440.	3.3	49

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19	X-ray detection with zinc-blende (cubic) GaN Schottky diodes. Scientific Reports, 2016, 6, 29535.	3.3	6
20	Study of confined coherent acoustic phonon modes in a free-standing cubic GaN membrane by femtosecond spectroscopy. Applied Physics Letters, 2015, 107, .	3.3	11
21	Effects of native defects on properties of low temperature grown, non-stoichiomtric gallium nitride. Journal Physics D: Applied Physics, 2015, 48, 385101.	2.8	6
22	Composition and optical properties of dilute-Sb GaN _{1â^^<i>x</i>} Sb _{<i>x</i>} highly mismatched alloys grown by MBE. Journal Physics D: Applied Physics, 2014, 47, 465102.	2.8	9
23	Transmission electron microscopy of indium gallium nitride nanorods grown by molecular beam epitaxy. Physica Status Solidi C: Current Topics in Solid State Physics, 2014, 11, 417-420.	0.8	7
24	Photoluminescence of magnesium and silicon doped cubic GaN. Physica Status Solidi C: Current Topics in Solid State Physics, 2014, 11, 385-388.	0.8	10
25	Molecular beam epitaxy of highly mismatched N-rich GaN1â^'xSbx and InN1â^'xAsx alloys. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2013, 31, .	1.2	12
26	Microstructure of Mg doped GaNAs alloys. Physica Status Solidi C: Current Topics in Solid State Physics, 2013, 10, 453-456.	0.8	1
27	Highly mismatched N-rich GaN1â^'xSbx films grown by low temperature molecular beam epitaxy. Applied Physics Letters, 2013, 102, .	3.3	26
28	Local structure of amorphous GaN1 \hat{a} xAsx semiconductor alloys across the composition range. Journal of Applied Physics, 2013, 113, .	2.5	6
29	Plasma-assisted electroepitaxy of GaN layers. Physica Status Solidi C: Current Topics in Solid State Physics, 2013, 10, 388-391.	0.8	2
30	Unusual broadening of EO and EO + \hat{l} "SO transitions in GaAsBi studied by electromodulation spectroscopy. Journal of Applied Physics, 2012, 111, 066103.	2.5	20
31	Molecular beam epitaxy of GaN _{1–<i>x</i>} Bi _{<i>x</i>} alloys with high bismuth content. Physica Status Solidi (A) Applications and Materials Science, 2012, 209, 419-423.	1.8	11
32	Plasma-assisted electroepitaxy as a novel method for the growth of GaN layers. Physica Status Solidi C: Current Topics in Solid State Physics, 2012, 9, 538-541.	0.8	2
33	Structural studies of GaN _{1â€x} As _x and GaN _{1â€x} Bi _x alloys for solar cell applications. Physica Status Solidi C: Current Topics in Solid State Physics, 2012, 9, 1586-1589.	0.8	1
34	Thermal stability of amorphous GaN1â^'xAsx alloys. Applied Physics Letters, 2011, 98, 161902.	3.3	8
35	Zinc-blende (cubic) GaN bulk crystals grown by molecular beam epitaxy. Physica Status Solidi C: Current Topics in Solid State Physics, 2011, 8, 1439-1444.	0.8	15
36	GaNAs alloys over the whole composition range grown on crystalline and amorphous substrates. Physica Status Solidi C: Current Topics in Solid State Physics, 2011, 8, 2503-2505.	0.8	7

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37	Carrier localization and related photoluminescence in cubic AlGaN epilayers. Journal of Applied Physics, 2011, 110, 063517.	2.5	9
38	Doping of GaN1â^'xAsx with high As content. Journal of Applied Physics, 2011, 110, 093702.	2.5	4
39	Growth and characterization of freeâ€standing zincâ€blende GaN layers and substrates. Physica Status Solidi (A) Applications and Materials Science, 2010, 207, 1277-1282.	1.8	14
40	Study of unintentional arsenic incorporation into free-standing zinc-blende GaN and AlGaN layers grown by molecular beam epitaxy on GaAs substrates. Physica Status Solidi C: Current Topics in Solid State Physics, 2010, 7, 2033-2035.	0.8	3
41	Nonâ€equilibrium GaNAs alloys with band gap ranging from 0.8â€3.4 eV. Physica Status Solidi C: Current Topics in Solid State Physics, 2010, 7, 1847-1849.	0.8	17
42	GaN1â^'xBix: Extremely mismatched semiconductor alloys. Applied Physics Letters, 2010, 97, 141919.	3.3	33
43	Molecular beam epitaxy as a method for the growth of freestanding zinc-blende (cubic) GaN layers and substrates. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2010, 28, C3B1-C3B6.	1.2	28
44	Molecular beam epitaxy of GaNAs alloys with high As content for potential photoanode applications in hydrogen production. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2010, 28, C3B12-C3B16.	1.2	13
45	Current-voltage characteristics of zinc-blende (cubic) Al0.3Ga0.7N/GaN double barrier resonant tunneling diodes. Applied Physics Letters, 2010, 97, .	3.3	23
46	Zinc-blende (Cubic) GaN and AlGaN Layers, Structures and Bulk Crystals by Molecular Beam Epitaxy. , 2010, , .		0
47	Low gap amorphous GaN1â^'xAsx alloys grown on glass substrate. Applied Physics Letters, 2010, 97, .	3.3	18
48	Highly mismatched crystalline and amorphous $GaN1\hat{a}^{\circ}$ xAsx alloys in the whole composition range. Journal of Applied Physics, 2009, 106, .	2.5	61
49	Elasto-optical properties of zinc-blende (cubic) GaN measured by picosecond acoustics. Journal Physics D: Applied Physics, 2009, 42, 115412.	2.8	13
50	Carrier localization in GaBiAs probed by photomodulated transmittance and photoluminescence. Journal of Applied Physics, 2009, 106, 023518.	2.5	55
51	Freeâ€standing zincâ€blende (cubic) GaN substrates grown by a molecular beam epitaxy process. Physica Status Solidi (B): Basic Research, 2008, 245, 890-892.	1.5	12
52	Far-infrared transmission in GaN, AlN, and AlGaN thin films grown by molecular beam epitaxy. Journal of Applied Physics, 2008, 104, 033544.	2.5	43
53	Defect-controlled growth of GaN nanorods on (0001)sapphire by molecular beam epitaxy. Applied Physics Letters, 2008, 93, 111911.	3.3	24
54	Growth and characterization of free-standing zinc-blende (cubic) GaN layers and substrates. Semiconductor Science and Technology, 2008, 23, 015018.	2.0	57

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55	Defect reduction in GaN/(0001)sapphire films grown by molecular beam epitaxy using nanocolumn intermediate layers. Applied Physics Letters, 2008, 92, .	3.3	63
56	X-ray in-plane scattering investigation of GaN nanorods. Journal of Applied Physics, 2008, 104, 103504.	2.5	8
57	Depth dependence of the Mn valence and Mn-Mn coupling in (Ga,Mn)N. Physical Review B, 2007, 76, .	3.2	20
58	Molecular beam epitaxy of GaBiAs on (311)B GaAs substrates. Applied Physics Letters, 2007, 91, 251909.	3.3	50
59	Optical Enhancement of 15N Nuclear Magnetic Resonance in Zinc-blende Ga15N. AIP Conference Proceedings, 2007, , .	0.4	1
60	71Ga Nuclear Magnetic Relaxation Measurements in Zinc-blende GaN. AIP Conference Proceedings, 2007,	0.4	2
61	Capacitance characterization of AlN/GaN double-barrier resonant tunnelling diodes. Physica Status Solidi C: Current Topics in Solid State Physics, 2006, 3, 2265-2269.	0.8	11
62	Conductivity of Cubic GaMnN Grown on Undoped GaN Layers. , 2006, , .		0
63	Optical characterisation of Bi-doped GaN films grown by molecular beam epitaxy. Physica Status Solidi (A) Applications and Materials Science, 2005, 202, 850-853.	1.8	3
64	Search For Hole Mediated Ferromagnetism In Cubic (Ga,Mn)N. AIP Conference Proceedings, 2005, , .	0.4	3
65	p-type conductivity in cubic (Ga,Mn)N thin films. Applied Physics Letters, 2005, 86, 152114.	3.3	34
66	Structural characterization of zincblende Galâ^'xMnxN epilayers grown by molecular beam epitaxy on (001) GaAs substrates. Applied Physics Letters, 2005, 87, 031902.	3.3	2
67	EdmondsetÂal.Reply:. Physical Review Letters, 2005, 94, .	7.8	7
68	Generation of terahertz monochromatic acoustic phonon pulses by femtosecond optical excitation of a gallium nitride/aluminium nitride superlattice. Applied Physics Letters, 2005, 86, 221915.	3.3	8
69	Influence of internal fields on radiative and nonradiative processes in AlN/GaN superlattices. Journal of Applied Physics, 2004, 95, 7785-7789.	2.5	9
70	Photoluminescence from self-assembled GaAs inclusions embedded in a GaN host crystal. Physica Status Solidi (B): Basic Research, 2003, 238, 204-212.	1.5	3
71	Isoelectronic doping of AlGaN alloys. Physica Status Solidi (B): Basic Research, 2003, 240, 408-411.	1.5	3
72	Characterisation of nitrides by energy filtered TEM and EELS. Physica Status Solidi C: Current Topics in Solid State Physics, 2003, 0, 2452-2455.	0.8	0

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73	Current–voltage instabilities in GaN/AlGaN resonant tunnelling structures. Physica Status Solidi C: Current Topics in Solid State Physics, 2003, 0, 2389-2392.	0.8	52
74	Modulation of Arsenic Incorporation in GaN Layers Grown by Molecular Beam Epitaxy. Materials Research Society Symposia Proceedings, 2003, 798, 736.	0.1	0
75	The Structure of Dislocations in GaN Grown by MBE as a Function of the Gallium to Nitrogen Ratio. Materials Research Society Symposia Proceedings, 2003, 798, 754.	0.1	0
76	The Influence of Substrate Polarity on the Blue Emission from As-doped GaN Layers Grown by Molecular Beam Epitaxy. Materials Research Society Symposia Proceedings, 2003, 798, 215.	0.1	0
77	Carrier relaxation dynamics for As defects in GaN. Applied Physics Letters, 2001, 79, 69-71.	3.3	11
78	The nature of arsenic incorporation in GaN. Applied Physics Letters, 2001, 79, 3239-3241.	3.3	8
79	Homo- and Hetero-Epitaxial Gallium Nitride Grown by Molecular Beam Epitaxy. Materials Research Society Symposia Proceedings, 1998, 537, 1.	0.1	0