Carsten Ronning

List of Publications by Year
in descending order

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335	10,289	36303	46799
papers	citations	51 h-index	89 g-index

347	347	347	11735
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Binary copper oxide semiconductors: From materials towards devices. Physica Status Solidi (B): Basic Research, 2012, 249, 1487-1509.	1.5	547
2	Carbon nitride deposited using energetic species: A review on XPS studies. Physical Review B, 1998, 58, 2207-2215.	3.2	394
3	Manganese-doped ZnO nanobelts for spintronics. Applied Physics Letters, 2004, 84, 783-785.	3.3	301
4	Cleaning of AlN and GaN surfaces. Journal of Applied Physics, 1998, 84, 5248-5260.	2.5	277
5	Ultrafast plasmonic nanowire lasers near the surface plasmon frequency. Nature Physics, 2014, 10, 870-876.	16.7	262
6	High-performance ZnO nanowire field effect transistors. Applied Physics Letters, 2006, 89, 133113.	3.3	223
7	Laser action in nanowires: Observation of the transition from amplified spontaneous emission to laser oscillation. Applied Physics Letters, 2008, 93, 051101.	3.3	223
8	Active Optical Metasurfaces Based on Defect-Engineered Phase-Transition Materials. Nano Letters, 2016, 16, 1050-1055.	9.1	186
9	Optically pumped nanowire lasers: invited review. Semiconductor Science and Technology, 2010, 25, 024001.	2.0	171
10	Single Step Integration of ZnO Nano- and Microneedles in Si Trenches by Novel Flame Transport Approach: Whispering Gallery Modes and Photocatalytic Properties. ACS Applied Materials & Interfaces, 2014, 6, 7806-7815.	8.0	156
11	Cylindrical spike model for the formation of diamondlike thin films by ion deposition. Applied Physics A: Materials Science and Processing, 1998, 66, 153-181.	2.3	154
12	High-Order Waveguide Modes in ZnO Nanowires. Nano Letters, 2007, 7, 3675-3680.	9.1	149
13	Evidence of intrinsic ferromagnetism in individual dilute magnetic semiconducting nanostructures. Nature Nanotechnology, 2009, 4, 523-527.	31.5	149
14	Hot-Electron Injection in Au Nanorodâ€“ZnO Nanowire Hybrid Device for Near-Infrared Photodetection. Nano Letters, 2014, 14, 6202-6209.	9.1	141
15	On the Optical Properties of Thinâ€Film Vanadium Dioxide from the Visible to the Far Infrared. Annalen Der Physik, 2019, 531, 1900188.	2.4	135
16	Flash Sintering of Nanocrystalline Zinc Oxide and its Influence on Microstructure and Defect Formation. Journal of the American Ceramic Society, 2014, 97, 1728-1735.	3.8	131
17	Ion implantation into gallium nitride. Physics Reports, 2001, 351, 349-385.	25.6	127
18	Wurtzite ZnS nanosaws produced by polar surfaces. Chemical Physics Letters, 2004, 385, 8-11.	2.6	123

#	Article	IF	Citations
19	Finite size effect in ZnO nanowires. Applied Physics Letters, 2007, 90, 113101.	3.3	115
20	Direct Determination of Minority Carrier Diffusion Lengths at Axial GaAs Nanowire pâ€“n Junctions. Nano Letters, 2012, 12, 1453-1458.	9.1	112
21	Axial p-n Junctions Realized in Silicon Nanowires by Ion Implantation. Nano Letters, 2009, 9, 1341-1344.	9.1	107
22	Conduction processes in boron- and nitrogen-doped diamond-like carbon films prepared by mass-separated ion beam deposition. Diamond and Related Materials, 1995, 4, 666-672.	3.9	105
23	Catalystâ^'Nanostructure Interaction in the Growth of 1-D ZnO Nanostructures. Journal of Physical Chemistry B, 2006, 110, 1656-1660.	2.6	101
24	Ion beam irradiation of nanostructures â€“ A 3D Monte Carlo simulation code. Nuclear Instruments & Methods in Physics Research B, 2011, 269, 2133-2138.	1.4	97
25	Ion beam doping of semiconductor nanowires. Materials Science and Engineering Reports, 2010, 70, 30-43.	31.8	96
26	A photonic integrated circuitâ€“based erbium-doped amplifier. Science, 2022, 376, 1309-1313.	12.6	95
27	Strongly Enhanced Molecular Fluorescence inside a Nanoscale Waveguide Gap. Nano Letters, 2011, 11, 4907-4911.	9.1	94
28	Cubic boron nitride films grown by low energy B+ and N+ ion beam deposition. Applied Physics Letters, 1995, 67, 46-48.	3.3	92
29	Thresholds for the phase formation of cubic boron nitride thin films. Physical Review B, 1997, 55, 13230-13233.	3.2	92
30	Exciton-related electroluminescence from ZnO nanowire light-emitting diodes. Applied Physics Letters, 2009, 94, .	3.3	90
31	Evolution of Metallicity in Vanadium Dioxide by Creation of Oxygen Vacancies. Physical Review Applied, 2017, 7, .	3.8	88
32	Epsilon-Near-Zero Substrate Engineering for Ultrathin-Film Perfect Absorbers. Physical Review Applied, 2017, 8, .	3.8	88
33	Ion Beam Doping of Silicon Nanowires. Nano Letters, 2008, 8, 2188-2193.	9.1	83
34	Nucleation mechanism of the seed of tetrapod ZnO nanostructures. Journal of Applied Physics, 2005, 98, 034307.	2.5	82
35	Scalable Fabrication of Nanowire Photonic and Electronic Circuits Using Spin-on Glass. Nano Letters, 2008, 8, 1695-1699.	9.1	82
36	Dependence of (0001) GaN/AlN valence band discontinuity on growth temperature and surface reconstruction. Journal of Applied Physics, 1998, 84, 2086-2090.	2.5	77

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37	Rubidium segregation at random grain boundaries in Cu(In,Ga)Se2 absorbers. Nano Energy, 2017, 42, 307-313.	16.0	70
38	Ion beam synthesis of boron carbide thin films. Surface and Coatings Technology, 2002, 158-159, 382-387.	4.8	68
39	Nano-X-ray Absorption Spectroscopy of Single Co-Implanted ZnO Nanowires. Nano Letters, 2011, 11, 5322-5326.	9.1	67
40	Alignment of Semiconductor Nanowires Using Ion Beams. Small, 2009, 5, 2576-2580.	10.0	66
41	Permanent bending and alignment of ZnO nanowires. Nanotechnology, 2011, 22, 185307.	2.6	64
42	Intense Intrashell Luminescence of Eu-Doped Single ZnO Nanowires at Room Temperature by Implantation Created Euâ€“O_i Complexes. Nano Letters, 2014, 14, 4523-4528.	9.1	63
43	Epitactically Interpenetrated High Quality ZnO Nanostructured Junctions on Microchips Grown by the Vaporâ”Liquidâ”Solid Method. Crystal Growth and Design, 2010, 10, 2842-2846.	3.0	62
44	Optical activation of Be implanted into GaN. Applied Physics Letters, 1998, 73, 1622-1624.	3.3	61
45	Structural impact of Mn implantation on ZnO. New Journal of Physics, 2008, 10, 043004.	2.9	61
46	Stable enhancement of near-band-edge emission of ZnO nanowires by hydrogen incorporation. Nanotechnology, 2010, 21, 065709.	2.6	60
47	Optical size effects in ultrathin ZnO nanowires. Nanotechnology, 2007, 18, 435701.	2.6	57
48	Electrical properties and thermal stability of ion beam deposited BN thin films. Diamond and Related Materials, 1997, 6, 1129-1134.	3.9	56
49	FAST/SPS sintering of nanocrystalline zinc oxideâ€”Part I: Enhanced densification and formation of hydrogen-related defects in presence of adsorbed water. Journal of the European Ceramic Society, 2016, 36, 1207-1220.	5.7	56
50	Structural and electronic properties of boron nitride thin films containing silicon. Journal of Applied Physics, 1998, 84, 5046-5051.	2.5	52
51	Ion implanted dopants in GaN and AlN: Lattice sites, annealing behavior, and defect recovery. Journal of Applied Physics, 2000, 87, 2149-2157.	2.5	52
52	Continuous Wave Nanowire Lasing. Nano Letters, 2013, 13, 3602-3606.	9.1	52
53	Conversionless efficient and broadband laser light diffusers for high brightness illumination applications. Nature Communications, 2020, 11, 1437.	12.8	52
54	Room temperature growth of cubic boron nitride. Applied Physics Letters, 1999, 74, 1552-1554.	3.3	51

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55	Ultrafast Dynamics of Lasing Semiconductor Nanowires. Nano Letters, 2015, 15, 4637-4643.	9.1	51
56	Local Ion Irradiation-Induced Resistive Threshold and Memory Switching in Nb₂O₅/NbO_x Films. ACS Applied Materials & Interfaces, 2014, 6, 17474-17480.	8.0	50
57	High-level damage saturation below amorphisation in ion implanted Î²-Ga2O3. Nuclear Instruments & Methods in Physics Research B, 2016, 379, 85-90.	1.4	50
58	Secondary phase segregation in heavily transition metal implanted ZnO. Journal of Applied Physics, 2009, 105, .	2.5	49
59	Low threshold room-temperature lasing of CdS nanowires. Nanotechnology, 2012, 23, 365204.	2.6	48
60	A New Route toward Semiconductor Nanospintronics: Highly Mn-Doped GaAs Nanowires Realized by Ion-Implantation under Dynamic Annealing Conditions. Nano Letters, 2011, 11, 3935-3940.	9.1	47
61	Ion beam irradiation of nanostructures: sputtering, dopant incorporation, and dynamic annealing. Semiconductor Science and Technology, 2015, 30, 033001.	2.0	47
62	Compositional and electrical properties of line and planar defects in Cu(In,Ga)Se₂ thin films for solar cells â€“ a review. Physica Status Solidi - Rapid Research Letters, 2016, 10, 363-375.	2.4	47
63	Intra-shell luminescence of transition-metal-implanted zinc oxide nanowires. Nanotechnology, 2009, 20, 135704.	2.6	45
64	Overall Distribution of Rubidium in Highly Efficient Cu(In,Ga)Se₂ Solar Cells. ACS Applied Materials & Interfaces, 2018, 10, 40592-40598.	8.0	44
65	Hopping Conduction Observed in Thermal Admittance Spectroscopy. Physical Review Letters, 2010, 104, 226403.	7.8	43
66	Electrically conducting ion tracks in diamond-like carbon films for field emission. Applied Physics A: Materials Science and Processing, 1999, 69, 239-240.	2.3	42
67	Luminescence centres in silica nanowires. Nanotechnology, 2006, 17, 3215-3218.	2.6	41
68	Characterization of cubic boron nitride films grown by mass separated ion beam deposition. Nuclear Instruments & Methods in Physics Research B, 1995, 106, 153-158.	1.4	40
69	Highly efficient visible-light driven photocatalysts: a case of zinc stannate based nanocrystal assemblies. Journal of Materials Chemistry A, 2014, 2, 4157-4167.	10.3	40
70	Observation of Dielectrically Confined Excitons in Ultrathin GaN Nanowires up to Room Temperature. Nano Letters, 2016, 16, 973-980.	9.1	40
71	Ion induced nanoscale surface ripples on ferromagnetic films with correlated magnetic texture. New Journal of Physics, 2007, 9, 29-29.	2.9	39
72	P-type doping of GaAs nanowires. Applied Physics Letters, 2008, 92, 163107.	3.3	39

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73	Increased homogeneity and open-circuit voltage of Cu(In,Ga)Se2 solar cells due to higher deposition temperature. Solar Energy Materials and Solar Cells, 2011, 95, 1028-1030.	6.2	39
74	Hopping Conduction in Mn Ion-Implanted GaAs Nanowires. Nano Letters, 2012, 12, 4838-4842.	9.1	39
75	In operando x-ray imaging of nanoscale devices: Composition, valence, and internal electrical fields. Science Advances, 2017, 3, eaao4044.	10.3	39
76	Lattice sites of ion implanted Li in diamond. Applied Physics Letters, 1995, 66, 2733-2735.	3.3	38
77	Unambiguous identification of the PL-I9 line in zinc oxide. Applied Physics Letters, 2007, 90, 012107.	3.3	38
78	Improving the Optical Properties of Self-Catalyzed GaN Microrods toward Whispering Gallery Mode Lasing. ACS Photonics, 2014, 1, 990-997.	6.6	37
79	Electronic and atomic structure of undoped and doped ta-C films. Diamond and Related Materials, 1997, 6, 830-834.	3.9	36
80	Biofunctionalization of zinc oxide nanowires for DNA sensory applications. Nanoscale Research Letters, 2011, 6, 511.	5.7	36
81	Conventional and pendeo-epitaxial growth of GaN(0001) thin films on Si(111) substrates. Journal of Crystal Growth, 2001, 231, 335-341.	1.5	35
82	Coupling of a single tin-vacancy center to a photonic crystal cavity in diamond. Applied Physics Letters, 2021, 118, .	3.3	35
83	Valence band discontinuity, surface reconstruction, and chemistry of (0001), (0001Ì„), and (11Ì„00) 2Hâ€“AlN/6Hâ€“SiC interfaces. Journal of Applied Physics, 1999, 86, 4483-4490.	2.5	34
84	The Physics of Copper Oxide (Cu2O). Semiconductors and Semimetals, 2013, , 201-226.	0.7	34
85	Cubic boron nitride thin film heteroepitaxy. Journal of Applied Physics, 2001, 90, 3248-3254.	2.5	33
86	Rare Earth Doped Zinc Oxide Nanowires. Journal of Nanoscience and Nanotechnology, 2008, 8, 244-251.	0.9	33
87	Self-organized nanoscale multilayer growth in hyperthermal ion deposition. Physical Review B, 2004, 70, .	3.2	32
88	Amphoteric Nature of Sn in CdS Nanowires. Nano Letters, 2014, 14, 518-523.	9.1	32
89	On the mechanisms of cubic boron nitride film growth. Diamond and Related Materials, 2004, 13, 1103-1110.	3.9	30
90	Shape manipulation of ion irradiated Ag nanoparticles embedded in lithium niobate. Nanotechnology, 2016, 27, 145202.	2.6	30

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91	Transition Metal and Rare Earth Element Doped Zinc Oxide Nanowires for Optoelectronics. Physica Status Solidi (B): Basic Research, 2019, 256, 1800604.	1.5	30
92	Applications of Hybrid Metalâ€Dielectric Nanostructures: State of the Art. Advanced Photonics Research, 2022, 3, .	3.6	30
93	Ion beam synthesis of diamond-like carbon thin films containing copper nanocrystals. Journal of Applied Physics, 2003, 93, 1203-1207.	2.5	29
94	Emission channeling study of annealing of radiation damage in heavy-ion implanted diamond. Nuclear Instruments & Methods in Physics Research B, 1996, 118, 72-75.	1.4	28
95	Fundamental role of ion bombardment for the synthesis of cubic boron nitride films. Physical Review B, 2002, 65, .	3.2	28
96	Carrier density driven lasing dynamics in ZnO nanowires. Nanotechnology, 2016, 27, 225702.	2.6	28
97	Catalystâ€“nanostructure interaction and growth of ZnS nanobelts. Nanotechnology, 2006, 17, 1067-1071.	2.6	27
98	Persistent Photoconductivity in ZnO Nanowires in Different Atmospheres. Advances in Condensed Matter Physics, 2014, 2014, 1-5.	1.1	27
99	Substitutional phosphorus doping of diamond by ion implantation. Journal of Applied Physics, 1997, 81, 2566-2569.	2.5	26
100	Ion-beam synthesis and growth mechanism of diamond-like materials. Applied Physics A: Materials Science and Processing, 2003, 77, 39-50.	2.3	26
101	Magnetic Polarons and Large Negative Magnetoresistance in GaAs Nanowires Implanted with Mn Ions. Nano Letters, 2013, 13, 5079-5084.	9.1	26
102	Observation of boron bound excitons in boron-implanted and annealed natural IIa diamonds. Applied Physics Letters, 1997, 71, 2668-2670.	3.3	25
103	Recovery of Structural Defects in GaN After Heavy Ion Implantation. Materials Research Society Symposia Proceedings, 1997, 468, 407.	0.1	25
104	X-ray photoelectron diffraction from (3Ã—3) and (â^š3Ã—â^š3)Râ€Š30Â° (0001)Si 6Hâ€“SiC surfaces. Journal of Applied Physics, 1998, 84, 6042-6048.	2.5	25
105	Valence band discontinuity of the (0001) 2H-GaN / (111) 3C-SiC interface. Journal of Electronic Materials, 1999, 28, L34-L37.	2.2	25
106	Ion beam deposition of fluorinated amorphous carbon. Journal of Applied Physics, 2001, 90, 4237-4245.	2.5	25
107	Ion beam synthesis of amorphous carbon thin films containing metallic nanoclusters. Surface and Coatings Technology, 2002, 158-159, 114-119.	4.8	25
108	Intense white photoluminescence emission of V-implanted zinc oxide thin films. Journal of Applied Physics, 2008, 104, .	2.5	25

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109	Mode Switching and Filtering in Nanowire Lasers. Nano Letters, 2016, 16, 2878-2884.	9.1	25
110	Revealing the origin of the beneficial effect of cesium in highly efficient Cu(In,Ga)Se2 solar cells. Nano Energy, 2020, 71, 104622.	16.0	25
111	Growth, doping and applications of cubic boron nitride thin films. Diamond and Related Materials, 2000, 9, 1767-1773.	3.9	24
112	Enhanced sputtering and incorporation of Mn in implanted GaAs and ZnO nanowires. Journal Physics D: Applied Physics, 2014, 47, 394003.	2.8	24
113	Electron-beam-induced current at absorber back surfaces of Cu(In,Ga)Se2 thin-film solar cells. Journal of Applied Physics, 2014, 115, .	2.5	24
114	Review on the dynamics of semiconductor nanowire lasers. Semiconductor Science and Technology, 2018, 33, 033001.	2.0	24
115	Ion implantation and annealing of diamond studied by emission channeling and cathodoluminescence. Diamond and Related Materials, 1999, 8, 1623-1630.	3.9	23
116	Protein Adsorption on Nano-scaled, Rippled TiO2and Si Surfaces. Biointerphases, 2012, 7, 55.	1.6	23
117	Polarization features of optically pumped CdS nanowire lasers. Journal Physics D: Applied Physics, 2014, 47, 394012.	2.8	23
118	Anomalous Plastic Deformation and Sputtering of Ion Irradiated Silicon Nanowires. Nano Letters, 2015, 15, 3800-3807.	9.1	23
119	Enhancement of the Sub-Band-Gap Photoconductivity in ZnO Nanowires through Surface Functionalization with Carbon Nanodots. Journal of Physical Chemistry C, 2018, 122, 1852-1859.	3.1	23
120	Hexagonal boron nitride nanowalls: physical vapour deposition, 2D/3D morphology and spectroscopic analysis. Journal Physics D: Applied Physics, 2012, 45, 135302.	2.8	22
121	Enhanced sputter yields of ion irradiated Au nano particles: energy and size dependence. Nanotechnology, 2015, 26, 325301.	2.6	22
122	Influence of Silver Film Quality on the Threshold of Plasmonic Nanowire Lasers. Advanced Optical Materials, 2017, 5, 1600856.	7.3	22
123	Pendeo-epitaxial growth of gallium nitride on silicon substrates. Journal of Electronic Materials, 2000, 29, 306-310.	2.2	21
124	Diffusion in diamond-like carbon. Diamond and Related Materials, 2003, 12, 2042-2050.	3.9	21
125	Grain-boundary character distribution and correlations with electrical and optoelectronic properties of CuInSe2 thin films. Acta Materialia, 2016, 118, 244-252.	7.9	21
126	Ion beam erosion of graphite surfaces studied by STM: Ripples, self-affine roughening and near-surface damage accumulation. Nuclear Instruments & Methods in Physics Research B, 2000, 161-163, 958-962.	1.4	20

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127	Hydrogen-plasma etching of ion beam deposited c-BN films: An in situ investigation of the surface with electron spectroscopy. Journal of Applied Physics, 2000, 88, 5597-5604.	2.5	20
128	High-resolution elastic recoil detection utilizing Bayesian probability theory. Nuclear Instruments & Methods in Physics Research B, 2001, 183, 48-61.	1.4	20
129	Morphological change of carbon surfaces by sputter erosion. Nuclear Instruments & Methods in Physics Research B, 2007, 256, 378-382.	1.4	20
130	Improved Ga grading of sequentially produced Cu(In,Ga)Se2 solar cells studied by high resolution X-ray fluorescence. Applied Physics Letters, 2015, 106, .	3.3	20
131	Wideâ€Bandgap Double Perovskites with Multiple Longitudinalâ€Optical Phonon Scattering. Advanced Functional Materials, 2022, 32, .	14.9	20
132	Surface Brillouin scattering of cubic boron nitride films. Journal of Applied Physics, 2002, 91, 4196-4204.	2.5	19
133	Conductivity of ion tracks in diamond-like carbon films. Diamond and Related Materials, 2003, 12, 938-941.	3.9	19
134	Discrepancy between integral and local composition in off-stoichiometric Cu2ZnSnSe4 kesterites: A pitfall for classification. Applied Physics Letters, 2017, 110, .	3.3	19
135	Dynamical Tuning of Nanowire Lasing Spectra. Nano Letters, 2017, 17, 6637-6643.	9.1	19
136	Magnetic characterization of ZnO doped with vanadium. Superlattices and Microstructures, 2007, 42, 236-241.	3.1	18
137	Tailoring the properties of semiconductor nanowires using ion beams. Physica Status Solidi (B): Basic Research, 2010, 247, 2329-2337.	1.5	18
138	Lattice Location and Luminescence Behavior of Rare Earth Elements Implanted in GaN. Materials Research Society Symposia Proceedings, 1997, 482, 1016.	0.1	17
139	Lattice sites of arsenic ions implanted in diamond. Journal of Applied Physics, 1995, 78, 5180-5182.	2.5	16
140	Lattice site location studies of ion implanted 8Li in GaN. Journal of Applied Physics, 1998, 84, 3085-3089.	2.5	16
141	The effect of substrate surface roughness on the nucleation of cubic boron nitride films. Diamond and Related Materials, 2006, 15, 55-60.	3.9	16
142	Pattern formation of Si surfaces by low-energy sputter erosion. Surface and Coatings Technology, 2007, 201, 8299-8302.	4.8	16
143	Influence of metallic coatings on the photoluminescence properties of ZnO nanowires. Physica Status Solidi - Rapid Research Letters, 2009, 3, 166-168.	2.4	16
144	Europium doping of c-BN and ta-C thin films. Diamond and Related Materials, 2003, 12, 1182-1185.	3.9	15

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145	Maxwell-Wagner polarization in Cu(In,Ga)(S,Se)₂. Applied Physics Letters, 2012, 100, 252111.	3.3	15
146	Controlled synthesis of ultrathin ZnO nanowires using micellar gold nanoparticles as catalyst templates. Nanoscale, 2013, 5, 7046.	5.6	15
147	Composition and texture of barium silicate crystals in fresnoite glass-ceramics by various scanning electron microscopic techniques. CrystEngComm, 2011, 13, 3383.	2.6	14
148	Temperature-dependent photoconductance of heavily doped ZnO nanowires. Nano Research, 2011, 4, 1110-1116.	10.4	14
149	Spatially resolved measurements of charge carrier lifetimes in CdTe solar cells. Journal of Applied Physics, 2013, 113, .	2.5	14
150	Synthesis, Morphological, and Electro-optical Characterizations of Metal/Semiconductor Nanowire Heterostructures. Nano Letters, 2016, 16, 3507-3513.	9.1	14
151	Low-loss and tunable near-zero-epsilon titanium nitride. Optical Materials, 2017, 72, 775-780.	3.6	14
152	Controlling the p-type conductivity of SnO by doping with nitrogen and hydrogen. Journal of Applied Physics, 2019, 125, .	2.5	14
153	Lattice sites of ion implanted Li in indium antimonide. Nuclear Instruments & Methods in Physics Research B, 1994, 85, 468-473.	1.4	13
154	Dimensional dependence of the dynamics of the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi mathvariant="normal">Mn</mml:mi><mml:mspace width="0.2em" /><mml:mn>3</mml:mn><mml:msup><mml:mi>d</mml:mi><mml:mn>5</mml:mn></mml:msup></mml:mrow></mml:math>luminescence in (Zn, Mn)S nanowires and nanobelts. Physical Review B, 2007, 76, .	3.2	13
155	Morphology of Si surfaces sputter-eroded by low-energy Xe-ions at glancing incident angle. Surface and Coatings Technology, 2009, 203, 2395-2398.	4.8	13
156	Persistent ion beam induced conductivity in zinc oxide nanowires. Applied Physics Letters, 2011, 99, 252105.	3.3	13
157	Sputtering and redeposition of ion irradiated Au nanoparticle arrays: direct comparison of simulations to experiments. New Journal of Physics, 2017, 19, 013023.	2.9	13
158	Li on bond-center sites in Si. Physical Review B, 1994, 50, 2176-2180.	3.2	12
159	Ion energy thresholds and stability of cubic boron nitride. Diamond and Related Materials, 2003, 12, 1877-1882.	3.9	12
160	Phonon-assisted lasing in ZnO microwires at room temperature. Applied Physics Letters, 2014, 105, .	3.3	12
161	Shaping and compositional modification of zinc oxide nanowires under energetic manganese ion irradiation. Nanotechnology, 2016, 27, 175301.	2.6	12
162	Flat Optical and Plasmonic Devices Using Areaâ€Selective Ionâ€Beam Doping of Silicon. Advanced Optical Materials, 2018, 6, 1701027.	7.3	12

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163	Metasurfaces Enabled by Locally Tailoring Disorder in Phase-Change Materials. ACS Photonics, 2018, 5, 5103-5109.	6.6	12
164	High temperature limit of semiconductor nanowire lasers. Applied Physics Letters, 2017, 110, 173103.	3.3	12
165	Modeling detector response for neutron depth profiling. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1995, 366, 137-144.	1.6	11
166	Lattice site location of ion-implanted 8Li in Silicon Carbide. Journal of Applied Physics, 2002, 91, 1046-1052.	2.5	11
167	Ultrafast carrier dynamics in tetrahedral amorphous carbon: carrier trapping versus electronâ€“hole recombination. New Journal of Physics, 2007, 9, 404-404.	2.9	11
168	Structure and defects of epitaxial Si(111) layers on Y[sub 2]O[sub 3](111)/Si(111) support systems. Journal of Vacuum Science & Technology B, 2009, 27, 305.	1.3	11
169	Synchrotron fluorescence nanoimaging of a single Coâ€implanted ZnO nanowire. Physica Status Solidi - Rapid Research Letters, 2011, 5, 283-285.	2.4	11
170	Correlation between damage evolution, cluster formation and optical properties of silver implanted lithium niobate. Nuclear Instruments & Methods in Physics Research B, 2012, 286, 67-71.	1.4	11
171	Functional ZnO/polymer core-shell nanowires fabricated by oxidative chemical vapour deposition. Journal Physics D: Applied Physics, 2014, 47, 394004.	2.8	11
172	Structural properties of zinc oxide deposited using atmospheric pressure combustion chemical vapour deposition. Thin Solid Films, 2014, 565, 45-53.	1.8	11
173	Deep-level emission in ZnO nanowires and bulk crystals: Excitation-intensity dependence versus crystalline quality. Journal of Applied Physics, 2014, 115, 233516.	2.5	11
174	Clustering of gold particles in Au implanted CrN thin films: The effect on the SPR peak position. Applied Surface Science, 2017, 426, 667-673.	6.1	11
175	Photoluminescence of ZnO/ZnMgO heterostructure nanobelts grown by MBE. Nanotechnology, 2020, 31, 135604.	2.6	11
176	On the Germanium Incorporation in Cu₂ZnSnSe₄ Kesterite Solar Cells Boosting Their Efficiency. ACS Applied Energy Materials, 2020, 3, 558-564.	5.1	11
177	Field emission studies on swift heavy ion irradiated tetrahedral amorphous carbon. Diamond and Related Materials, 2004, 13, 1032-1036.	3.9	10
178	Characterization of the donor-acceptor-pair transition in Nitrogen-implanted zinc oxide. Journal of Applied Physics, 2008, 103, 083513.	2.5	10
179	Thermoelectric Characterization of Electronic Properties of GaMnAs Nanowires. Journal of Nanotechnology, 2012, 2012, 1-5.	3.4	10
180	Local lattice distortions in single Co-implanted ZnO nanowires. Applied Physics Letters, 2013, 103, 141911.	3.3	10

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181	Nature of AX Centers in Antimony-Doped Cadmium Telluride Nanobelts. Nano Letters, 2015, 15, 974-980.	9.1	10
182	Hard X-ray Generation from ZnO Nanowire Targets in a Non-Relativistic Regime of Laser-Solid Interactions. Applied Sciences (Switzerland), 2018, 8, 1728.	2.5	10
183	Tuning carrier density and phase transitions in oxide semiconductors using focused ion beams. Nanophotonics, 2022, 11, 3923-3932.	6.0	10
184	Cubic boron nitride thin film growth by boron and nitrogen ion implantation. Physical Review B, 2005, 72, .	3.2	9
185	Self-assembled nano-scale multilayer formation using physical vapor deposition methods. Nuclear Instruments & Methods in Physics Research B, 2006, 242, 261-264.	1.4	9
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