

Carsten Ronning

List of Publications by Year in descending order

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335
papers

10,289
citations

36203

51
h-index

46693

89
g-index

347
all docs

347
docs citations

347
times ranked

11735
citing authors

#	ARTICLE	IF	CITATIONS
1	The disappearance and return of nanoparticles upon low energy ion irradiation. Nanotechnology, 2022, 33, 035703.	1.3	5
2	Applications of Hybrid Metal-Dielectric Nanostructures: State of the Art. Advanced Photonics Research, 2022, 3, .	1.7	30
3	Laser energy absorption and x-ray generation in nanowire arrays irradiated by relativistically intense ultra-high contrast femtosecond laser pulses. Physics of Plasmas, 2022, 29, .	0.7	9
4	Low optical losses in plasmonic TiN thin films implanted with silver and gold. Optical Materials, 2022, 123, 111936.	1.7	4
5	Wide-Bandgap Double Perovskites with Multiple Longitudinal-Optical Phonon Scattering. Advanced Functional Materials, 2022, 32, .	7.8	20
6	Defect induced stress in ion irradiated nanocrystalline Ge ₂ Sb ₂ Te ₅ . Materials Letters, 2022, , 132249.	1.3	0
7	Fe implantation induced lattice defects and their recovery in GaN. Hyperfine Interactions, 2022, 243, 1.	0.2	0
8	Tuning nanowire lasers via hybridization with two-dimensional materials. Nanoscale, 2022, 14, 6822-6829.	2.8	2
9	A photonic integrated circuit-based erbium-doped amplifier. Science, 2022, 376, 1309-1313.	6.0	95
10	Tuning carrier density and phase transitions in oxide semiconductors using focused ion beams. Nanophotonics, 2022, 11, 3923-3932.	2.9	10
11	Tunable Infrared Optics Enabled by Defect-Engineering of Vanadium Dioxide Using Focused Ion Beam. , 2021, , .		0
12	Luminescence of ZnO nanocrystals in silica synthesized by dual (Zn, O) implantation and thermal annealing. Journal Physics D: Applied Physics, 2021, 54, 265104.	1.3	9
13	Ellipticity dependent excitation and high harmonic generation from intense mid-IR laser pulses in ZnO. , 2021, , .		0
14	Contribution of free carriers to light absorption upon intense light-semiconductor interaction. , 2021, , .		0
15	Coupling of a single tin-vacancy center to a photonic crystal cavity in diamond. Applied Physics Letters, 2021, 118, .	1.5	35
16	Role of free-carrier interaction in strong-field excitations in semiconductors. Physical Review B, 2021, 104, .	1.1	1
17	Fast recovery of ion-irradiation-induced defects in Ge ₂ Sb ₂ Te ₅ thin films at room temperature. Optical Materials Express, 2021, 11, 3535.	1.6	2
18	Polarization Dependent Excitation and High Harmonic Generation from Intense Mid-IR Laser Pulses in ZnO. Nanomaterials, 2021, 11, 4.	1.9	9

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19	Tuning exciton recombination rates in doped transition metal dichalcogenides. <i>Optical Materials: X</i> , 2021, 12, 100097.	0.3	5
20	Engineering Optical Materials Using Focused Ion Beams. , 2021, , .		0
21	Polarization dependent multiphoton absorption in ZnO thin films. <i>Journal Physics D: Applied Physics</i> , 2020, 53, 055102.	1.3	6
22	Determination of the full deformation tensor by multi-Bragg fast scanning nano X-ray diffraction. <i>Journal of Applied Crystallography</i> , 2020, 53, 99-106.	1.9	2
23	Photoluminescence of ZnO/ZnMgO heterostructure nanobelts grown by MBE. <i>Nanotechnology</i> , 2020, 31, 135604.	1.3	11
24	On the Germanium Incorporation in Cu ₂ ZnSnSe ₄ Kesterite Solar Cells Boosting Their Efficiency. <i>ACS Applied Energy Materials</i> , 2020, 3, 558-564.	2.5	11
25	Microwave AC Resonance Induced Phase Change in Sb ₂ Te ₃ Nanowires. <i>Nano Letters</i> , 2020, 20, 8668-8674.	4.5	1
26	Hot electrons in a nanowire hard X-ray detector. <i>Nature Communications</i> , 2020, 11, 4729.	5.8	4
27	Interplay of Performance-Limiting Nanoscale Features in Cu ₂ ZnSn(S,Se) ₄ Solar Cells. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2020, 217, 2000456.	0.8	3
28	In-Operando Nanoscale X-ray Analysis Revealing the Local Electrical Properties of Rubidium-Enriched Grain Boundaries in Cu(In,Ga)Se ₂ Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 57117-57123.	4.0	7
29	Conversionless efficient and broadband laser light diffusers for high brightness illumination applications. <i>Nature Communications</i> , 2020, 11, 1437.	5.8	52
30	Revealing the origin of the beneficial effect of cesium in highly efficient Cu(In,Ga)Se ₂ solar cells. <i>Nano Energy</i> , 2020, 71, 104622.	8.2	25
31	Evaluation of carrier density and mobility in Mn ion-implanted GaAs:Zn nanowires by Raman spectroscopy. <i>Nanotechnology</i> , 2020, 31, 205705.	1.3	2
32	Grayscale Nanopatterning of Phase-Change Materials for Subwavelength-Scaled, Inherently Planar, Nonvolatile, and Reconfigurable Optical Devices. <i>ACS Applied Nano Materials</i> , 2020, 3, 4486-4493.	2.4	7
33	Thermal annealing of Ag implanted silicon: Relationship between structural and optical properties. <i>Science of Sintering</i> , 2020, 52, 207-217.	0.5	1
34	Toward Frequency-Selective Surfaces via Doping of Zinc Oxide with a Focused Ion Beam. , 2020, , .		0
35	Formation of Ag nanoparticles in Si (100) wafers by single and multiple low energy Ag ions implantation. <i>Surface and Coatings Technology</i> , 2019, 377, 124913.	2.2	6
36	On the Optical Properties of Thin-Film Vanadium Dioxide from the Visible to the Far Infrared. <i>Annalen Der Physik</i> , 2019, 531, 1900188.	0.9	135

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37	Comprehensive porosity determination of combustion-deposited SiO _x thin films and correlation with FTIR signal. Surface and Coatings Technology, 2019, 375, 256-265.	2.2	1
38	Fe ₃ C nanoparticle formation in Fe implanted HOPG and CVD diamond. Hyperfine Interactions, 2019, 240, 1.	0.2	0
39	Observation and manipulation of CIGSe phase formation in a two stage sequential process. Applied Physics Letters, 2019, 115, 143901.	1.5	0
40	Silicon nanostructuring by Ag ions implantation through nanosphere lithography mask. Optical Materials, 2019, 88, 508-515.	1.7	6
41	Transition Metal and Rare Earth Element Doped Zinc Oxide Nanowires for Optoelectronics. Physica Status Solidi (B): Basic Research, 2019, 256, 1800604.	0.7	30
42	Strong Light-Field Driven Nanolasers. Nano Letters, 2019, 19, 3563-3568.	4.5	4
43	Dynamics and Interactions of Semiconductor Nanowires for Optoelectronics. Physica Status Solidi (B): Basic Research, 2019, 256, 1900127.	0.7	0
44	Raman characterization of single-crystalline Ga _{0.96} Mn _{0.04} As:Zn nanowires realized by ion-implantation. Nanotechnology, 2019, 30, 335202.	1.3	3
45	Single nanowire defined emission properties of ZnO nanowire arrays. Journal Physics D: Applied Physics, 2019, 52, 295101.	1.3	4
46	Controlling the p-type conductivity of SnO by doping with nitrogen and hydrogen. Journal of Applied Physics, 2019, 125, .	1.1	14
47	Culturing and patch clamping of Jurkat T cells and neurons on Al ₂ O ₃ coated nanowire arrays of altered morphology. RSC Advances, 2019, 9, 11194-11201.	1.7	9
48	Electroluminescence of intrashell transitions in Eu doped single ZnO nanowires. Nanotechnology, 2019, 30, 095201.	1.3	5
49	Improving gas sensing by CdTe decoration of individual Aerographite microtubes. Nanotechnology, 2019, 30, 065501.	1.3	8
50	Review on the dynamics of semiconductor nanowire lasers. Semiconductor Science and Technology, 2018, 33, 033001.	1.0	24
51	Flat Optical and Plasmonic Devices Using Area-Selective Ion-Beam Doping of Silicon. Advanced Optical Materials, 2018, 6, 1701027.	3.6	12
52	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.	1.5	23
53	Embedded Optics: Flat Optical and Plasmonic Devices Using Area-Selective Ion-Beam Doping of Silicon (Advanced Optical Materials 5/2018). Advanced Optical Materials, 2018, 6, 1870019.	3.6	1
54	Monolithic Doped-Semiconductor Platform for Optical Devices in the Infrared. , 2018, , .		0

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55	Metasurfaces Enabled by Locally Tailoring Disorder in Phase-Change Materials. ACS Photonics, 2018, 5, 5103-5109.	3.2	12
56	Overall Distribution of Rubidium in Highly Efficient Cu(In,Ga)Se ₂ Solar Cells. ACS Applied Materials & Interfaces, 2018, 10, 40592-40598.	4.0	44
57	Magnetic nanocluster formation of Fe ions embedded in SiO ₂ and Al ₂ O ₃ substrates. MRS Advances, 2018, 3, 2603-2608.	0.5	0
58	Hard X-ray Generation from ZnO Nanowire Targets in a Non-Relativistic Regime of Laser-Solid Interactions. Applied Sciences (Switzerland), 2018, 8, 1728.	1.3	10
59	Ion beam designed metasurfaces. , 2018, , .		0
60	Paramagnetic, NIR luminescent Nd ³⁺ and Gd ³⁺ doped fluorapatite as contrast agent for multimodal biomedical imaging. Journal of the American Ceramic Society, 2018, 101, 4441-4446.	1.9	2
61	Dynamics of nanoparticle morphology under low energy ion irradiation. Nanotechnology, 2018, 29, 314002.	1.3	7
62	Discrepancy between integral and local composition in off-stoichiometric Cu ₂ ZnSnSe ₄ kesterites: A pitfall for classification. Applied Physics Letters, 2017, 110, .	1.5	19
63	Influence of Silver Film Quality on the Threshold of Plasmonic Nanowire Lasers. Advanced Optical Materials, 2017, 5, 1600856.	3.6	22
64	X-ray emission generated by laser-produced plasmas from dielectric nanostructured targets. AIP Conference Proceedings, 2017, , .	0.3	4
65	Excitation Energy Dependent Ultrafast Luminescence Behavior of CdS Nanostructures. ACS Photonics, 2017, 4, 1067-1075.	3.2	9
66	Local atomic environment of the Cu-related defect in zinc oxide. Journal Physics D: Applied Physics, 2017, 50, 145105.	1.3	1
67	Gate-controlled heat generation in ZnO nanowire FETs. Physical Chemistry Chemical Physics, 2017, 19, 14042-14047.	1.3	2
68	Sputtering and redeposition of ion irradiated Au nanoparticle arrays: direct comparison of simulations to experiments. New Journal of Physics, 2017, 19, 013023.	1.2	13
69	Ion Beam Induced Charge analysis of diamond diodes. Nuclear Instruments & Methods in Physics Research B, 2017, 404, 259-263.	0.6	3
70	Formation of superparamagnetic nanoclusters in Fe implanted Al ₂ O ₃ . Nuclear Instruments & Methods in Physics Research B, 2017, 409, 221-223.	0.6	0
71	Evolution of Metallicity in Vanadium Dioxide by Creation of Oxygen Vacancies. Physical Review Applied, 2017, 7, .	1.5	88
72	Growth of ¹⁸ O isotopically enriched ZnO nanorods by two novel VPT methods. Journal of Crystal Growth, 2017, 460, 85-93.	0.7	2

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73	Dynamical Tuning of Nanowire Lasing Spectra. Nano Letters, 2017, 17, 6637-6643.	4.5	19
74	Evolution of structural and optical properties of Ag implanted CrN thin films with annealing temperature. Journal of Alloys and Compounds, 2017, 729, 671-678.	2.8	6
75	Ion beam irradiation of nanostructures: sputtering, dopant incorporation, and dynamic annealing. Semiconductor Science and Technology, 2017, 32, 109401.	1.0	0
76	Epsilon-Near-Zero Substrate Engineering for Ultrathin-Film Perfect Absorbers. Physical Review Applied, 2017, 8, .	1.5	88
77	Clustering of gold particles in Au implanted CrN thin films: The effect on the SPR peak position. Applied Surface Science, 2017, 426, 667-673.	3.1	11
78	Low-loss and tunable near-zero-epsilon titanium nitride. Optical Materials, 2017, 72, 775-780.	1.7	14
79	In operando x-ray imaging of nanoscale devices: Composition, valence, and internal electrical fields. Science Advances, 2017, 3, eaao4044.	4.7	39
80	Rubidium segregation at random grain boundaries in Cu(In,Ga)Se ₂ absorbers. Nano Energy, 2017, 42, 307-313.	8.2	70
81	Flame based growth of ZnO nano- and microstructures for advanced optical, multifunctional devices, and biomedical applications (Conference Presentation). , 2017, , .		1
82	From three-photon to tunnel ionization pumped ZnO nanolasers. , 2017, , .		0
83	X-ray emission from nanostructured targets irradiated by a relativistically intense mid-infrared driver. , 2017, , .		0
84	High temperature limit of semiconductor nanowire lasers. Applied Physics Letters, 2017, 110, 173103.	1.5	12
85	Enhanced absorption and cavity effects of three-photon pumped ZnO nanowires. Applied Physics Letters, 2017, 111, 213106.	1.5	7
86	Carrier density driven lasing dynamics in ZnO nanowires. Nanotechnology, 2016, 27, 225702.	1.3	28
87	Compositional and electrical properties of line and planar defects in Cu(In,Ga)Se ₂ thin films for solar cells – a review. Physica Status Solidi - Rapid Research Letters, 2016, 10, 363-375.	1.2	47
88	CEMS study of defect annealing in Fe implanted AlN. Hyperfine Interactions, 2016, 237, 1.	0.2	1
89	High-level damage saturation below amorphisation in ion implanted $\hat{\Gamma}^2$ -Ga ₂ O ₃ . Nuclear Instruments & Methods in Physics Research B, 2016, 379, 85-90.	0.6	50
90	Synthesis, Morphological, and Electro-optical Characterizations of Metal/Semiconductor Nanowire Heterostructures. Nano Letters, 2016, 16, 3507-3513.	4.5	14

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91	Grain-boundary character distribution and correlations with electrical and optoelectronic properties of CuInSe ₂ thin films. <i>Acta Materialia</i> , 2016, 118, 244-252.	3.8	21
92	Shaping and compositional modification of zinc oxide nanowires under energetic manganese ion irradiation. <i>Nanotechnology</i> , 2016, 27, 175301.	1.3	12
93	Sensitivity of ⁵⁷ Fe emission Mössbauer spectroscopy to Ar and C induced defects in ZnO. <i>Hyperfine Interactions</i> , 2016, 237, 1.	0.2	2
94	Emission Mössbauer spectroscopy study of fluence dependence of paramagnetic relaxation in Mn/Fe implanted ZnO. <i>Hyperfine Interactions</i> , 2016, 237, 1.	0.2	1
95	Mode Switching and Filtering in Nanowire Lasers. <i>Nano Letters</i> , 2016, 16, 2878-2884.	4.5	25
96	Non-resonant Raman spectroscopy of individual ZnO nanowires via Au nanorod surface plasmons. <i>Journal of Materials Chemistry C</i> , 2016, 4, 1651-1657.	2.7	7
97	FAST/SPS sintering of nanocrystalline zinc oxide—Part I: Enhanced densification and formation of hydrogen-related defects in presence of adsorbed water. <i>Journal of the European Ceramic Society</i> , 2016, 36, 1207-1220.	2.8	56
98	Shape manipulation of ion irradiated Ag nanoparticles embedded in lithium niobate. <i>Nanotechnology</i> , 2016, 27, 145202.	1.3	30
99	Observation of Dielectrically Confined Excitons in Ultrathin GaN Nanowires up to Room Temperature. <i>Nano Letters</i> , 2016, 16, 973-980.	4.5	40
100	Active Optical Metasurfaces Based on Defect-Engineered Phase-Transition Materials. <i>Nano Letters</i> , 2016, 16, 1050-1055.	4.5	186
101	Low Energy Ion Beam Modification of Nanostructures. <i>Springer Series in Surface Sciences</i> , 2016, , 475-500.	0.3	4
102	Ultrafast ZnO nanowire lasers: nanoplasmonic acceleration of gain dynamics at the surface plasmon polariton frequency. , 2016, , .		0
103	Ultrafast plasmonic nanowire lasers near the surface plasmon frequency (Presentation Recording). <i>Proceedings of SPIE</i> , 2015, , .	0.8	1
104	Stoichiometry variation for the atomic layer deposition of Sr _x Ti _y O _z from Sr(iPr ₃ Cp) ₂ , Ti[N(CH ₃) ₂] ₄ and H ₂ O. <i>Thin Solid Films</i> , 2015, 577, 134-142.	0.8	4
105	Nature of AX Centers in Antimony-Doped Cadmium Telluride Nanobelts. <i>Nano Letters</i> , 2015, 15, 974-980.	4.5	10
106	Ion beam irradiation of nanostructures: sputtering, dopant incorporation, and dynamic annealing. <i>Semiconductor Science and Technology</i> , 2015, 30, 033001.	1.0	47
107	Nanocluster formation in Co/Fe implanted ZnO. <i>Hyperfine Interactions</i> , 2015, 230, 181-186.	0.2	2
108	Ultrafast Dynamics of Lasing Semiconductor Nanowires. <i>Nano Letters</i> , 2015, 15, 4637-4643.	4.5	51

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109	Adjusting the forming step for resistive switching in Nb ₂ O ₅ by ion irradiation. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2015, 33, 01A105.	0.6	3
110	Anomalous Plastic Deformation and Sputtering of Ion Irradiated Silicon Nanowires. <i>Nano Letters</i> , 2015, 15, 3800-3807.	4.5	23
111	Dynamics of the phase formation process upon the low temperature selenization of Cu/In-multilayer stacks. <i>Journal of Applied Physics</i> , 2015, 117, 105302.	1.1	1
112	Improved Ga grading of sequentially produced Cu(In,Ga)Se ₂ solar cells studied by high resolution X-ray fluorescence. <i>Applied Physics Letters</i> , 2015, 106, .	1.5	20
113	Enhanced sputter yields of ion irradiated Au nano particles: energy and size dependence. <i>Nanotechnology</i> , 2015, 26, 325301.	1.3	22
114	ZnO/porous-Si and TiO ₂ /porous-Si nanocomposite nanopillars. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2015, 33, 01A102.	0.9	6
115	Persistent Photoconductivity in ZnO Nanowires in Different Atmospheres. <i>Advances in Condensed Matter Physics</i> , 2014, 2014, 1-5.	0.4	27
116	Magnetoresistance in Mn ion-implanted GaAs:Zn nanowires. <i>Applied Physics Letters</i> , 2014, 104, 153112.	1.5	8
117	Polarization features of optically pumped CdS nanowire lasers. <i>Journal Physics D: Applied Physics</i> , 2014, 47, 394012.	1.3	23
118	Temperature and bias-voltage dependence of atomic-layer-deposited HfO ₂ -based magnetic tunnel junctions. <i>Applied Physics Letters</i> , 2014, 105, .	1.5	8
119	Phonon-assisted lasing in ZnO microwires at room temperature. <i>Applied Physics Letters</i> , 2014, 105, .	1.5	12
120	Nano-X-ray diffraction study of single Co-implanted ZnO nanowires. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2014, 211, 2523-2526.	0.8	4
121	Functional ZnO/polymer core-shell nanowires fabricated by oxidative chemical vapour deposition. <i>Journal Physics D: Applied Physics</i> , 2014, 47, 394004.	1.3	11
122	Enhanced sputtering and incorporation of Mn in implanted GaAs and ZnO nanowires. <i>Journal Physics D: Applied Physics</i> , 2014, 47, 394003.	1.3	24
123	Flash Sintering of Nanocrystalline Zinc Oxide and its Influence on Microstructure and Defect Formation. <i>Journal of the American Ceramic Society</i> , 2014, 97, 1728-1735.	1.9	131
124	Defect studies on Ar-implanted ZnO thin films. <i>Physica Status Solidi (B): Basic Research</i> , 2014, 251, 937-941.	0.7	1
125	High lateral resolution energy dispersive X-ray spectroscopy and cathodoluminescence on lamellae of CIGSe solar cells. , 2014, , .		1
126	Structural order in single Co-implanted ZnO nanowires. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2014, 211, 483-487.	0.8	4

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127	Amphoteric Nature of Sn in CdS Nanowires. Nano Letters, 2014, 14, 518-523.	4.5	32
128	Electron-beam-induced current at absorber back surfaces of Cu(In,Ga)Se ₂ thin-film solar cells. Journal of Applied Physics, 2014, 115, .	1.1	24
129	Local Ion Irradiation-Induced Resistive Threshold and Memory Switching in Nb ₂ O ₅ /NbO _x Films. ACS Applied Materials & Interfaces, 2014, 6, 17474-17480.	4.0	50
130	Highly efficient visible-light driven photocatalysts: a case of zinc stannate based nanocrystal assemblies. Journal of Materials Chemistry A, 2014, 2, 4157-4167.	5.2	40
131	Hot-Electron Injection in Au Nanorod/ZnO Nanowire Hybrid Device for Near-Infrared Photodetection. Nano Letters, 2014, 14, 6202-6209.	4.5	141
132	Gate modulation of below-band-gap photoconductivity in ZnO nanowire field-effect-transistors. Journal Physics D: Applied Physics, 2014, 47, 394014.	1.3	6
133	Structural properties of zinc oxide deposited using atmospheric pressure combustion chemical vapour deposition. Thin Solid Films, 2014, 565, 45-53.	0.8	11
134	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.	4.0	156
135	Deep-level emission in ZnO nanowires and bulk crystals: Excitation-intensity dependence versus crystalline quality. Journal of Applied Physics, 2014, 115, 233516.	1.1	11
136	Improving the Optical Properties of Self-Catalyzed GaN Microrods toward Whispering Gallery Mode Lasing. ACS Photonics, 2014, 1, 990-997.	3.2	37
137	Ultrafast plasmonic nanowire lasers near the surface plasmon frequency. Nature Physics, 2014, 10, 870-876.	6.5	262
138	Intense Intrashell Luminescence of Eu-Doped Single ZnO Nanowires at Room Temperature by Implantation Created Eu ³⁺ Complexes. Nano Letters, 2014, 14, 4523-4528.	4.5	63
139	Utilizing dynamic annealing during ion implantation: synthesis of silver nanoparticles in crystalline lithium niobate. Nanotechnology, 2014, 25, 135611.	1.3	6
140	Ultrafast ZnO nanowire lasers: nanoplasmonic acceleration of gain dynamics at the surface plasmon polariton frequency. , 2014, , .		2
141	DNA hybridization assay at individual, biofunctionalized zinc oxide nanowires. Journal of Biophotonics, 2013, 6, 143-147.	1.1	8
142	Intense intra-3d luminescence and waveguide properties of single Co-doped ZnO nanowires. Physica Status Solidi - Rapid Research Letters, 2013, 7, 886-889.	1.2	9
143	The Physics of Copper Oxide (Cu ₂ O). Semiconductors and Semimetals, 2013, , 201-226.	0.4	34
144	Continuous Wave Nanowire Lasing. Nano Letters, 2013, 13, 3602-3606.	4.5	52

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145	CdTe grown under Cd/Te excess at very low temperatures for solar cells. Journal of Applied Physics, 2013, 113, .	1.1	7
146	Magnetic Polarons and Large Negative Magnetoresistance in GaAs Nanowires Implanted with Mn Ions. Nano Letters, 2013, 13, 5079-5084.	4.5	26
147	Local lattice distortions in single Co-implanted ZnO nanowires. Applied Physics Letters, 2013, 103, 141911.	1.5	10
148	Room temperature plasmonic nanowire laser near the surface plasmon frequency. , 2013, , .		0
149	A General Approach toward Shape-Controlled Synthesis of Silicon Nanowires. Nano Letters, 2013, 13, 21-25.	4.5	4
150	Luminescent ordered arrays of nanoporous silicon nanopillars and silicon nanopillars with nanoporous shells. Materials Letters, 2013, 98, 186-189.	1.3	8
151	Buffer-free Cu(In,Ga)Se ₂ -solar cells by near-surface ion implantation. Solar Energy Materials and Solar Cells, 2013, 116, 43-48.	3.0	7
152	Controlled synthesis of ultrathin ZnO nanowires using micellar gold nanoparticles as catalyst templates. Nanoscale, 2013, 5, 7046.	2.8	15
153	Spatially resolved measurements of charge carrier lifetimes in CdTe solar cells. Journal of Applied Physics, 2013, 113, .	1.1	14
154	Luminescence and energy transfer processes in ensembles and single Mn or Tb doped ZnS nanowires. Journal of Applied Physics, 2013, 113, 073506.	1.1	5
155	Ordered arrays of patterned nanoporous silicon. Journal of Micromechanics and Microengineering, 2013, 23, 074004.	1.5	6
156	A CEMS search for precipitate formation in ⁵⁷ Fe implanted ZnO. , 2013, , 485-488.		0
157	Modal gain and its diameter dependence in single-ZnO micro- and nanowires. Semiconductor Science and Technology, 2012, 27, 015005.	1.0	9
158	Extension of the cubic boron nitride thin film growth phase diagram. Diamond and Related Materials, 2012, 22, 88-91.	1.8	4
159	Low threshold room-temperature lasing of CdS nanowires. Nanotechnology, 2012, 23, 365204.	1.3	48
160	Hexagonal boron nitride nanowalls: physical vapour deposition, 2D/3D morphology and spectroscopic analysis. Journal Physics D: Applied Physics, 2012, 45, 135302.	1.3	22
161	Protein Adsorption on Nano-scaled, Rippled TiO ₂ and Si Surfaces. Biointerphases, 2012, 7, 55.	0.6	23
162	Maxwell-Wagner polarization in Cu(In,Ga)(S,Se) ₂ . Applied Physics Letters, 2012, 100, 252111.	1.5	15

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163	Hopping Conduction in Mn Ion-Implanted GaAs Nanowires. Nano Letters, 2012, 12, 4838-4842.	4.5	39
164	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.	0.6	11
165	Direct Determination of Minority Carrier Diffusion Lengths at Axial GaAs Nanowire p-n Junctions. Nano Letters, 2012, 12, 1453-1458.	4.5	112
166	Thermoelectric Characterization of Electronic Properties of GaMnAs Nanowires. Journal of Nanotechnology, 2012, 2012, 1-5.	1.5	10
167	Quantification of impurity concentration in Cu ₂ O and CuO via secondary ion mass spectrometry. Physica Status Solidi (B): Basic Research, 2012, 249, 801-811.	0.7	8
168	Binary copper oxide semiconductors: From materials towards devices. Physica Status Solidi (B): Basic Research, 2012, 249, 1487-1509.	0.7	547
169	A CEMS search for precipitate formation in ⁵⁷ Fe implanted ZnO. Hyperfine Interactions, 2012, 207, 49-52.	0.2	3
170	Significant stress reduction of cBN layers upon ion irradiation at elevated temperatures. Nuclear Instruments & Methods in Physics Research B, 2012, 280, 18-21.	0.6	0
171	Luminescence properties of Ga-graded Cu(In,Ga)Se ₂ thin films. Thin Solid Films, 2012, 520, 3657-3662.	0.8	5
172	Composition and texture of barium silicate crystals in fresnoite glass-ceramics by various scanning electron microscopic techniques. CrystEngComm, 2011, 13, 3383.	1.3	14
173	Strongly Enhanced Molecular Fluorescence inside a Nanoscale Waveguide Gap. Nano Letters, 2011, 11, 4907-4911.	4.5	94
174	Permanent bending and alignment of ZnO nanowires. Nanotechnology, 2011, 22, 185307.	1.3	64
175	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.	4.5	47
176	Nano-X-ray Absorption Spectroscopy of Single Co-Implanted ZnO Nanowires. Nano Letters, 2011, 11, 5322-5326.	4.5	67
177	Near-interface doping by ion implantation in Cu(In,Ga)Se ₂ solar cells. Thin Solid Films, 2011, 519, 7276-7279.	0.8	1
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