

Silke H Christiansen

List of Publications by Year in descending order

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288
papers

11,135
citations

30047

54
h-index

40954

93
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290
all docs

290
docs citations

290
times ranked

13201
citing authors

#	ARTICLE	IF	CITATIONS
1	Small-sized microplastics and pigmented particles in bottled mineral water. <i>Water Research</i> , 2018, 141, 307-316.	5.3	577
2	Defect structure of epitaxial GaN films determined by transmission electron microscopy and triple-axis X-ray diffractometry. <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , 1998, 77, 1013-1025.	0.7	498
3	Silicon Nanowire-Based Solar Cells on Glass: Synthesis, Optical Properties, and Cell Parameters. <i>Nano Letters</i> , 2009, 9, 1549-1554.	4.5	469
4	Silicon nanowire-based solar cells. <i>Nanotechnology</i> , 2008, 19, 295203.	1.3	386
5	Measurement of the Bending Strength of Vapor-Liquid-Solid Grown Silicon Nanowires. <i>Nano Letters</i> , 2006, 6, 622-625.	4.5	258
6	Critical Assessment of Analytical Methods for the Harmonized and Cost-Efficient Analysis of Microplastics. <i>Applied Spectroscopy</i> , 2020, 74, 1012-1047.	1.2	249
7	A network of trans-cortical capillaries as mainstay for blood circulation in long bones. <i>Nature Metabolism</i> , 2019, 1, 236-250.	5.1	221
8	Ultrasensitive Silicon Nanowire for Real-World Gas Sensing: Noninvasive Diagnosis of Cancer from Breath Volatolome. <i>Nano Letters</i> , 2015, 15, 1288-1295.	4.5	211
9	Optical Properties of Individual Silicon Nanowires for Photonic Devices. <i>ACS Nano</i> , 2010, 4, 7113-7122.	7.3	205
10	Strained state of Ge(Si) islands on Si: Finite element calculations and comparison to convergent beam electron-diffraction measurements. <i>Applied Physics Letters</i> , 1994, 64, 3617-3619.	1.5	184
11	Silicon Nanowire Sensors Enable Diagnosis of Patients via Exhaled Breath. <i>ACS Nano</i> , 2016, 10, 7047-7057.	7.3	179
12	Wafer Direct Bonding: From Advanced Substrate Engineering to Future Applications in Micro/Nanoelectronics. <i>Proceedings of the IEEE</i> , 2006, 94, 2060-2106.	16.4	138
13	Nanostructured Gold Films for SERS by Block Copolymer-Templated Galvanic Displacement Reactions. <i>Nano Letters</i> , 2009, 9, 2384-2389.	4.5	133
14	Enhanced Sensing of Nonpolar Volatile Organic Compounds by Silicon Nanowire Field Effect Transistors. <i>ACS Nano</i> , 2011, 5, 5620-5626.	7.3	133
15	Critical Review of Processing and Classification Techniques for Images and Spectra in Microplastic Research. <i>Applied Spectroscopy</i> , 2020, 74, 989-1010.	1.2	132
16	Fracture strength and Young's modulus of ZnO nanowires. <i>Nanotechnology</i> , 2007, 18, 205503.	1.3	130
17	Junction formation and current transport mechanisms in hybrid n-Si/PEDOT:PSS solar cells. <i>Scientific Reports</i> , 2015, 5, 13008.	1.6	128
18	Synthesis Mechanisms of Organized Gold Nanoparticles: Influence of Annealing Temperature and Atmosphere. <i>Crystal Growth and Design</i> , 2010, 10, 587-596.	1.4	122

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19	Laser-Patterning Engineering for Perovskite Solar Modules With 95% Aperture Ratio. IEEE Journal of Photovoltaics, 2017, 7, 1674-1680.	1.5	116
20	The Direct Writing of Plasmonic Gold Nanostructures by Electron-Beam-Induced Deposition. Advanced Materials, 2011, 23, 2657-2661.	11.1	111
21	Learning with known operators reduces maximum error bounds. Nature Machine Intelligence, 2019, 1, 373-380.	8.3	111
22	Axial p-n Junctions Realized in Silicon Nanowires by Ion Implantation. Nano Letters, 2009, 9, 1341-1344.	4.5	107
23	Surface ripples, crosshatch pattern, and dislocation formation: Cooperating mechanisms in lattice mismatch relaxation. Applied Physics Letters, 1995, 67, 1232-1234.	1.5	105
24	Phonons as probes in self-organized SiGe islands. Applied Physics Letters, 1997, 71, 3856-3858.	1.5	98
25	Molecular Gating of Silicon Nanowire Field-Effect Transistors with Nonpolar Analytes. ACS Nano, 2012, 6, 335-345.	7.3	98
26	Vapour-transport-deposition growth of ZnO nanostructures: switch between axial wires and axial belts by indium doping. Nanotechnology, 2006, 17, S231-S239.	1.3	97
27	Realization of Vertical and Zigzag Single Crystalline Silicon Nanowire Architectures. Journal of Physical Chemistry C, 2010, 114, 3798-3803.	1.5	97
28	Roughness of silicon nanowire sidewalls and room temperature photoluminescence. Physical Review B, 2010, 82, .	1.1	94
29	Large area fabrication of vertical silicon nanowire arrays by silver-assisted single-step chemical etching and their formation kinetics. Nanotechnology, 2014, 25, 175601.	1.3	94
30	Development of an optimal filter substrate for the identification of small microplastic particles in food by micro-Raman spectroscopy. Analytical and Bioanalytical Chemistry, 2017, 409, 4099-4109.	1.9	93
31	Aggregated neutrophil extracellular traps resolve inflammation by proteolysis of cytokines and chemokines and protection from antiproteases. FASEB Journal, 2019, 33, 1401-1414.	0.2	90
32	Grain orientation, texture, and internal stress optically evaluated by micro-Raman spectroscopy. Journal of Applied Physics, 2007, 101, 063531.	1.1	78
33	Composition of self-assembled Ge/Si islands in single and multiple layers. Applied Physics Letters, 2002, 81, 2614-2616.	1.5	76
34	The Role of Hole Transport in Hybrid Inorganic/Organic Silicon/Poly(3,4-ethylenedioxy-thiophene):Poly(styrenesulfonate) Heterojunction Solar Cells. Journal of Physical Chemistry C, 2013, 117, 9049-9055.	1.5	76
35	Growth of silicon nanowires by chemical vapour deposition on gold implanted silicon substrates. Nanotechnology, 2006, 17, 2895-2898.	1.3	74
36	Nanowire Arrays in Multicrystalline Silicon Thin Films on Glass: A Promising Material for Research and Applications in Nanotechnology. Nano Letters, 2012, 12, 4050-4054.	4.5	74

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37	Vertically Oriented Growth of GaN Nanorods on Si Using Graphene as an Atomically Thin Buffer Layer. Nano Letters, 2016, 16, 3524-3532.	4.5	73
38	Reduced effective misfit in laterally limited structures such as epitaxial islands. Applied Physics Letters, 1995, 66, 574-576.	1.5	71
39	<i>In Situ</i> Electron Microscopy Mechanical Testing of Silicon Nanowires Using Electrostatically Actuated Tensile Stages. Journal of Microelectromechanical Systems, 2010, 19, 663-674.	1.7	70
40	Extraction of plasticity parameters of GaN with high temperature, in situ micro-compression. International Journal of Plasticity, 2013, 40, 140-151.	4.1	70
41	The Role of Si during the Growth of GaN Micro- and Nanorods. Crystal Growth and Design, 2014, 14, 1486-1492.	1.4	70
42	Chemical Passivation of Silicon Nanowires with C ₁ -C ₆ Alkyl Chains through Covalent Si-C Bonds. Journal of Physical Chemistry C, 2008, 112, 19168-19172.	1.5	69
43	Encapsulation of silver nanowire networks by atomic layer deposition for indium-free transparent electrodes. Nano Energy, 2015, 16, 196-206.	8.2	68
44	Permanent bending and alignment of ZnO nanowires. Nanotechnology, 2011, 22, 185307.	1.3	64
45	Silicon nanowires terminated with methyl functionalities exhibit stronger Si-C bonds than equivalent 2D surfaces. Physical Chemistry Chemical Physics, 2009, 11, 3845.	1.3	63
46	Study of iron-catalysed growth of $\text{In}^2\text{-Ga}_2\text{O}_3$ nanowires and their detailed characterization using TEM, Raman and cathodoluminescence techniques. Journal Physics D: Applied Physics, 2014, 47, 435101.	1.3	63
47	The SERS and TERS Effects Obtained by Gold Droplets on Top of Si Nanowires. Nano Letters, 2007, 7, 75-80.	4.5	62
48	Potential of PEDOT:PSS as a hole selective front contact for silicon heterojunction solar cells. Scientific Reports, 2017, 7, 2170.	1.6	60
49	Covalent Attachment of Alkyl Functionality to 50 nm Silicon Nanowires through a Chlorination/Alkylation Process. Journal of Physical Chemistry C, 2009, 113, 14823-14828.	1.5	59
50	Interface investigation of planar hybrid n-Si/PEDOT:PSS solar cells with open circuit voltages up to 645 mV and efficiencies of 12.6%. Applied Physics A: Materials Science and Processing, 2014, 115, 1109-1113.	1.1	58
51	Far-Field Imaging for Direct Visualization of Light Interferences in GaAs Nanowires. Nano Letters, 2012, 12, 5412-5417.	4.5	56
52	A comparative study of $\text{In}^2\text{-Ga}_2\text{O}_3$ nanowires grown on different substrates using CVD technique. Journal of Alloys and Compounds, 2014, 587, 812-818.	2.8	55
53	Nanowires Enabling Signal-Enhanced Nanoscale Raman Spectroscopy. Small, 2008, 4, 398-404.	5.2	54
54	Spray-Coating Route for Highly Aligned and Large-Scale Arrays of Nanowires. ACS Nano, 2012, 6, 4702-4712.	7.3	54

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55	Self-assembled semiconductor nanostructures: climbing up the ladder of order. <i>Surface Science</i> , 2002, 514, 10-18.	0.8	53
56	Strong plasmonic enhancement of biexciton emission: controlled coupling of a single quantum dot to a gold nanocone antenna. <i>Scientific Reports</i> , 2017, 7, 42307.	1.6	53
57	Ultrafast Dynamics of Lasing Semiconductor Nanowires. <i>Nano Letters</i> , 2015, 15, 4637-4643.	4.5	51
58	Enhanced photovoltaics inspired by the fovea centralis. <i>Scientific Reports</i> , 2015, 5, 8570.	1.6	50
59	Inorganic photovoltaics – Planar and nanostructured devices. <i>Progress in Materials Science</i> , 2016, 82, 294-404.	16.0	50
60	Nanopatterned Carbon Films with Engineered Morphology by Direct Carbonization of UV-Stabilized Block Copolymer Films. <i>Nano Letters</i> , 2008, 8, 3993-3997.	4.5	49
61	The Formation of Calcified Nanospherites during Micropetrosis Represents a Unique Mineralization Mechanism in Aged Human Bone. <i>Small</i> , 2017, 13, 1602215.	5.2	49
62	Signal enhancement in nano-Raman spectroscopy by gold caps on silicon nanowires obtained by vapour-liquid-solid growth. <i>Nanotechnology</i> , 2007, 18, 035503.	1.3	48
63	Oxide-free hybrid silicon nanowires: From fundamentals to applied nanotechnology. <i>Progress in Surface Science</i> , 2013, 88, 39-60.	3.8	48
64	Interfacing transitions of different alkali atoms and telecom bands using one narrowband photon pair source. <i>Optica</i> , 2015, 2, 773.	4.8	47
65	Unveiling the Hybrid n-Si/PEDOT:PSS Interface. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 8841-8848.	4.0	47
66	Next-generation imaging of the skeletal system and its blood supply. <i>Nature Reviews Rheumatology</i> , 2019, 15, 533-549.	3.5	46
67	Bone tissue aging affects mineralization of cement lines. <i>Bone</i> , 2018, 110, 187-193.	1.4	45
68	Composite Nanostructures of TiO ₂ and ZnO for Water Splitting Application: Atomic Layer Deposition Growth and Density Functional Theory Investigation. <i>Advanced Functional Materials</i> , 2016, 26, 4882-4889.	7.8	44
69	Evolution and properties of nanodiamond films deposited by direct current glow discharge. <i>Journal of Applied Physics</i> , 2001, 89, 2622-2630.	1.1	43
70	Frontline Science: Aggregated neutrophil extracellular traps prevent inflammation on the neutrophil-rich ocular surface. <i>Journal of Leukocyte Biology</i> , 2019, 105, 1087-1098.	1.5	43
71	Highly p-doped regions in silicon solar cells quantitatively analyzed by small angle beveling and micro-Raman spectroscopy. <i>Journal of Applied Physics</i> , 2009, 106, .	1.1	42
72	Self-Catalytic Growth of Ga ₂ O ₃ Nanostructures by Chemical Vapor Deposition. <i>Advanced Engineering Materials</i> , 2015, 17, 709-715.	1.6	42

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73	Sensing Nanoparticles with a Cantilever-Based Scannable Optical Cavity of Low Finesse and Sub- λ Volume. <i>Physical Review Applied</i> , 2015, 4, .	1.5	41
74	Nature of grain boundaries in laser crystallized polycrystalline silicon thin films. <i>Journal of Applied Physics</i> , 2001, 89, 5348-5354.	1.1	40
75	Silicon nanowire growth by electron beam evaporation: Kinetic and energetic contributions to the growth morphology. <i>Journal of Crystal Growth</i> , 2007, 300, 288-293.	0.7	39
76	Stable Scaffolds for Reacting Si Nanowires with Further Organic Functionalities while Preserving Si ¹³ C Passivation of Surface Sites. <i>Journal of the American Chemical Society</i> , 2008, 130, 17670-17671.	6.6	39
77	Early stages of oxide growth in H-terminated silicon nanowires: determination of kinetic behavior and activation energy. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 11877.	1.3	39
78	Controlling morphology and optical properties of self-catalyzed, mask-free GaN rods and nanorods by metal-organic vapor phase epitaxy. <i>Journal of Applied Physics</i> , 2013, 114, .	1.1	39
79	Maximizing the ultimate absorption efficiency of vertically-aligned semiconductor nanowire arrays with wires of a low absorption cross-section. <i>Nano Energy</i> , 2015, 12, 801-809.	8.2	39
80	Efficient Nitrogen Doping of Single-Layer Graphene Accompanied by Negligible Defect Generation for Integration into Hybrid Semiconductor Heterostructures. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 10003-10011.	4.0	39
81	Complementary cathodoluminescence lifetime imaging configurations in a scanning electron microscope. <i>Ultramicroscopy</i> , 2019, 197, 28-38.	0.8	39
82	Strain relaxation and threading dislocation density in helium-implanted and annealed Si _{1-x} Gex/Si(100) heterostructures. <i>Journal of Applied Physics</i> , 2004, 95, 5347-5351.	1.1	38
83	Microstructure of a high strength alumina glass composite. <i>Journal of Materials Research</i> , 1996, 11, 855-858.	1.2	37
84	Improving the Optical Properties of Self-Catalyzed GaN Microrods toward Whispering Gallery Mode Lasing. <i>ACS Photonics</i> , 2014, 1, 990-997.	3.2	37
85	Integration of plasmonic Ag nanoparticles as a back reflector in ultra-thin Cu(In,Ga)Se ₂ solar cells. <i>Applied Surface Science</i> , 2015, 355, 800-804.	3.1	37
86	Chiroptical response of a single plasmonic nanohelix. <i>Optics Express</i> , 2018, 26, 19275.	1.7	37
87	Growth peculiarities during vapor-liquid-solid growth of silicon nanowhiskers by electron-beam evaporation. <i>Applied Physics A: Materials Science and Processing</i> , 2006, 85, 311-315.	1.1	36
88	Correlating internal stresses, electrical activity and defect structure on the micrometer scale in EFG silicon ribbons. <i>Solar Energy Materials and Solar Cells</i> , 2011, 95, 2264-2271.	3.0	36
89	Plasmonic dimer antennas for surface enhanced Raman scattering. <i>Nanotechnology</i> , 2012, 23, 185303.	1.3	36
90	Towards fully integrated photonic displacement sensors. <i>Nature Communications</i> , 2020, 11, 2915.	5.8	36

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91	Barrier inhomogeneities limited current and 1/f noise transport in GaN based nanoscale Schottky barrier diodes. <i>Scientific Reports</i> , 2016, 6, 27553.	1.6	35
92	Nano-diamond films deposited by direct current glow discharge assisted chemical vapor deposition. <i>Diamond and Related Materials</i> , 2000, 9, 866-871.	1.8	34
93	Enhanced Raman Scattering of Graphene using Arrays of Split Ring Resonators. <i>Advanced Optical Materials</i> , 2013, 1, 151-157.	3.6	34
94	Growth of GaN Micro- and Nanorods on Graphene-Covered Sapphire: Enabling Conductivity to Semiconductor Nanostructures on Insulating Substrates. <i>Crystal Growth and Design</i> , 2015, 15, 2079-2086.	1.4	34
95	Elastic and plastic relaxation in slightly undulated misfitting epitaxial layers - A quantitative approach by three-dimensional finite element calculations. <i>Physica Status Solidi A</i> , 1996, 156, 129-150.	1.7	33
96	Dynamics of lateral grain growth during the laser interference crystallization of a-Si. <i>Journal of Applied Physics</i> , 1999, 85, 4010-4023.	1.1	33
97	Heterojunction based hybrid silicon nanowire solar cell: surface termination, photoelectron and photoemission spectroscopy study. <i>Progress in Photovoltaics: Research and Applications</i> , 2014, 22, 1050-1061.	4.4	33
98	Photon bunching reveals single-electron cathodoluminescence excitation efficiency in InGaN quantum wells. <i>Physical Review B</i> , 2017, 96, .	1.1	33
99	The Phenomenology of Ion Implantation-Induced Blistering and Thin-Layer Splitting in Compound Semiconductors. <i>Journal of Electronic Materials</i> , 2010, 39, 2177-2189.	1.0	32
100	High quality factor whispering gallery modes from self-assembled hexagonal GaN rods grown by metal-organic vapor phase epitaxy. <i>Optics Express</i> , 2013, 21, 2733.	1.7	32
101	Nanoscale Characterization of Carrier Dynamic and Surface Passivation in InGaN/GaN Multiple Quantum Wells on GaN Nanorods. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 31887-31893.	4.0	32
102	A precise optical determination of nanoscale diameters of semiconductor nanowires. <i>Nanotechnology</i> , 2011, 22, 385201.	1.3	31
103	Silicon nanowire oxidation: the influence of sidewall structure and gold distribution. <i>Nanotechnology</i> , 2009, 20, 405607.	1.3	30
104	Resonant Raman scattering by acoustical phonons in Ge/Si self-assembled quantum dots: Interferences and ordering effects. <i>Physical Review B</i> , 2000, 62, 7243-7248.	1.1	29
105	XPS study of triangular GaN nano/micro-needles grown by MOCVD technique. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2014, 186, 89-93.	1.7	29
106	Effect of rapid thermal annealing on barrier height and 1/f noise of Ni/GaN Schottky barrier diodes. <i>Applied Physics Letters</i> , 2015, 107, 093502.	1.5	29
107	Determination of the effective refractive index of nanoparticulate ITO layers. <i>Optics Express</i> , 2013, 21, 22754.	1.7	28
108	Engineering Nanoporous Iron(III) Oxide into an Effective Water Oxidation Electrode. <i>ChemCatChem</i> , 2015, 7, 2455-2459.	1.8	28

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109	Significant performance enhancement of InGaN/GaN nanorod LEDs with multi-layer graphene transparent electrodes by alumina surface passivation. <i>Nanotechnology</i> , 2017, 28, 055201.	1.3	28
110	Influence of magnesium doping on the structural properties of GaN layers. <i>Journal of Crystal Growth</i> , 1997, 181, 197-203.	0.7	27
111	Strain relaxation in nanopatterned strained silicon round pillars. <i>Applied Physics Letters</i> , 2007, 90, 021902.	1.5	27
112	Microstructure and phase composition evolution of nano-crystalline carbon films: Dependence on deposition temperature. <i>Journal of Applied Physics</i> , 2002, 91, 3336-3344.	1.1	26
113	Correlative Microscopy and Spectroscopy Workflow for Microplastics. <i>Applied Spectroscopy</i> , 2020, 74, 1155-1160.	1.2	26
114	Lateral Grain Growth during the Laser Interference Crystallization of a-Si. <i>Physica Status Solidi A</i> , 1998, 166, 659-666.	1.7	25
115	Strain and composition in self-assembled SiGe islands by Raman spectroscopy. <i>Journal of Applied Physics</i> , 2002, 91, 6772.	1.1	25
116	Laterally aligned Ge/Si islands: a new concept for faster field-effect transistors. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2002, 89, 101-105.	1.7	25
117	Investigation of hydrogen implantation induced blistering in GaN. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2006, 3, 1754-1757.	0.8	25
118	Optical properties of vertical, tilted and in-plane GaN nanowires on different crystallographic orientations of sapphire. <i>Journal Physics D: Applied Physics</i> , 2014, 47, 394008.	1.3	25
119	Plasmonic gold helices for the visible range fabricated by oxygen plasma purification of electron beam induced deposits. <i>Nanotechnology</i> , 2017, 28, 055303.	1.3	25
120	Synthetic Image Rendering Solves Annotation Problem in Deep Learning Nanoparticle Segmentation. <i>Small Methods</i> , 2021, 5, e2100223.	4.6	25
121	Formation of nanovoids in high-dose hydrogen implanted GaN. <i>Applied Physics Letters</i> , 2006, 89, 031912.	1.5	24
122	Vapor-liquid-solid growth of silicon nanowires by chemical vapor deposition on implanted templates. <i>Journal of Applied Physics</i> , 2006, 100, 084323.	1.1	24
123	Disentangling the effects of nanoscale structural variations on the light emission wavelength of single nano-emitters: InGaN/GaN multiquantum well nano-LEDs for a case study. <i>Nanoscale</i> , 2014, 6, 11953-11962.	2.8	24
124	Toward Local Growth of Individual Nanowires on Three-Dimensional Microstructures by Using a Minimally Invasive Catalyst Templating Method. <i>Nano Letters</i> , 2011, 11, 4213-4217.	4.5	23
125	Field-Effect Transistors Based on Silicon Nanowire Arrays: Effect of the Good and the Bad Silicon Nanowires. <i>ACS Applied Materials & Interfaces</i> , 2012, 4, 4251-4258.	4.0	23
126	Glow discharge techniques in the chemical analysis of photovoltaic materials. <i>Progress in Photovoltaics: Research and Applications</i> , 2014, 22, 371-382.	4.4	23

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127	Fabrication and characterization of plasmonic nanocone antennas for strong spontaneous emission enhancement. <i>Nanotechnology</i> , 2015, 26, 404001.	1.3	23
128	Direct laser writing of $\lambda/4$ -chips based on hybrid Au@Ag nanoparticles for express analysis of hazardous and biological substances. <i>Lab on A Chip</i> , 2015, 15, 1742-1747.	3.1	23
129	Microscopic Deformation Modes and Impact of Network Anisotropy on the Mechanical and Electrical Performance of Five-fold Twinned Silver Nanowire Electrodes. <i>ACS Nano</i> , 2021, 15, 362-376.	7.3	23
130	Near-field investigations of nanoshell cylinder dimers. <i>Journal of Chemical Physics</i> , 2009, 131, 164704.	1.2	22
131	Catalyst-Free Functionalization for Versatile Modification of Nonoxidized Silicon Structures. <i>Langmuir</i> , 2011, 27, 4764-4771.	1.6	22
132	Charge Transfer Doping of Silicon. <i>Physical Review Letters</i> , 2014, 112, 155502.	2.9	22
133	Observation of strongly enhanced photoluminescence from inverted cone-shaped silicon nanostructures. <i>Scientific Reports</i> , 2015, 5, 17089.	1.6	22
134	Early growth stages of Ge _{0.85} Si _{0.15} on Si(001) from Bi solution. <i>Surface Science</i> , 1995, 331-333, 896-901.	0.8	21
135	Microstructure of laser-crystallized silicon thin films on glass substrate. <i>Journal of Applied Physics</i> , 2002, 91, 4125-4130.	1.1	21
136	New insights into colloidal gold flakes: structural investigation, micro-ellipsometry and thinning procedure towards ultrathin monocrystalline layers. <i>Nanoscale</i> , 2016, 8, 4529-4536.	2.8	21
137	Coherent X-Ray Scattering Phenomenon in Highly Disordered Epitaxial AlN Films. <i>Physica Status Solidi A</i> , 1997, 162, 529-535.	1.7	20
138	Mechanism of nanodiamond film formation by stress relaxation on a preferentially oriented vertical basal plane graphitic precursor. <i>Journal of Applied Physics</i> , 2001, 89, 5769-5773.	1.1	20
139	Relaxation of strain in patterned strained silicon investigated by UV Raman spectroscopy. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2006, 135, 184-187.	1.7	20
140	Lithographically patterned silicon nanowire arrays for matrix free LDI-TOF/MS analysis of lipids. <i>Lab on A Chip</i> , 2010, 10, 320-325.	3.1	20
141	Growth of doped silicon nanowires by pulsed laser deposition and their analysis by electron beam induced current imaging. <i>Nanotechnology</i> , 2011, 22, 075706.	1.3	20
142	Kinetic study of H-terminated silicon nanowires oxidation in very first stages. <i>Nanoscale Research Letters</i> , 2013, 8, 41.	3.1	20
143	Ordered arrays of epitaxial silicon nanowires produced by nanosphere lithography and chemical vapor deposition. <i>Journal of Crystal Growth</i> , 2010, 312, 2887-2891.	0.7	19
144	Statistical model on the optical properties of silicon nanowire mats. <i>Physical Review B</i> , 2011, 84, .	1.1	19

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145	Probing photo-carrier collection efficiencies of individual silicon nanowire diodes on a wafer substrate. <i>Nanoscale</i> , 2014, 6, 7897-7902.	2.8	19
146	Systematic increase of electrocatalytic turnover at nanoporous platinum surfaces prepared by atomic layer deposition. <i>Journal of Materials Chemistry A</i> , 2015, 3, 8450-8458.	5.2	19
147	Mechanical properties and microstructural analysis of a diamond-like carbon coating on an alumina/glass composite. <i>Journal of Materials Research</i> , 1996, 11, 1934-1942.	1.2	18
148	Growth of GaN Nanorods and Wires and Spectral Tuning of Whispering Gallery Modes in Tapered GaN Wires. <i>Japanese Journal of Applied Physics</i> , 2013, 52, 08JE09.	0.8	18
149	Electromechanically Tunable Suspended Optical Nanoantenna. <i>Nano Letters</i> , 2016, 16, 2680-2685.	4.5	18
150	Photoluminescence and Raman Scattering in Arrays of Silicon Nanowires. <i>Journal of Nanoelectronics and Optoelectronics</i> , 2011, 6, 519-524.	0.1	18
151	Strained silicon on insulator (SSOI) by waferbonding. <i>Materials Science in Semiconductor Processing</i> , 2005, 8, 197-202.	1.9	17
152	Investigation of hydrogen implantation-induced blistering in SiGe. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2005, 124-125, 162-165.	1.7	17
153	Chemical and optical characterisation of atomic layer deposition aluminium doped ZnO films for photovoltaics by glow discharge optical emission spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 2011, 26, 822.	1.6	17
154	Growth of axial SiGe heterostructures in nanowires using pulsed laser deposition. <i>Nanotechnology</i> , 2011, 22, 305604.	1.3	16
155	Spatially-controlled laser-induced decoration of 2D and 3D substrates with plasmonic nanoparticles. <i>RSC Advances</i> , 2016, 6, 75681-75685.	1.7	16
156	Self-Catalyzed Growth of Vertically Aligned InN Nanorods by Metal-Organic Vapor Phase Epitaxy. <i>Nano Letters</i> , 2016, 16, 3415-3425.	4.5	16
157	Free charges versus excitons: photoluminescence investigation of InGaN/GaN multiple quantum well nanorods and their planar counterparts. <i>Nanoscale</i> , 2018, 10, 5358-5365.	2.8	16
158	Selective area growth of AlGaIn nanopyramid arrays on graphene by metal-organic vapor phase epitaxy. <i>Applied Physics Letters</i> , 2018, 113, .	1.5	16
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