

# Silke H Christiansen

## List of Publications by Citations

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269  
papers

9,060  
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50  
h-index

83  
g-index

290  
ext. papers

10,157  
ext. citations

5.3  
avg, IF

6  
L-index

#	Paper	IF	Citations
269	Silicon nanowire-based solar cells on glass: synthesis, optical properties, and cell parameters. <i>Nano Letters</i> , <b>2009</b> , 9, 1549-54	11.5	426
268	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> , <b>1998</b> , 77, 1013-1025		424
267	Silicon nanowire-based solar cells. <i>Nanotechnology</i> , <b>2008</b> , 19, 295203	3.4	353
266	Small-sized microplastics and pigmented particles in bottled mineral water. <i>Water Research</i> , <b>2018</b> , 141, 307-316	12.5	313
265	Measurement of the bending strength of vapor-liquid-solid grown silicon nanowires. <i>Nano Letters</i> , <b>2006</b> , 6, 622-5	11.5	231
264	Optical properties of individual silicon nanowires for photonic devices. <i>ACS Nano</i> , <b>2010</b> , 4, 7113-22	16.7	179
263	Ultrasensitive silicon nanowire for real-world gas sensing: noninvasive diagnosis of cancer from breath volatolome. <i>Nano Letters</i> , <b>2015</b> , 15, 1288-95	11.5	173
262	Strained state of Ge(Si) islands on Si: Finite element calculations and comparison to convergent beam electron-diffraction measurements. <i>Applied Physics Letters</i> , <b>1994</b> , 64, 3617-3619	3.4	171
261	Silicon Nanowire Sensors Enable Diagnosis of Patients via Exhaled Breath. <i>ACS Nano</i> , <b>2016</b> , 10, 7047-57	16.7	142
260	A network of trans-cortical capillaries as mainstay for blood circulation in long bones. <i>Nature Metabolism</i> , <b>2019</b> , 1, 236-250	14.6	129
259	Nanostructured gold films for SERS by block copolymer-templated galvanic displacement reactions. <i>Nano Letters</i> , <b>2009</b> , 9, 2384-9	11.5	125
258	Fracture strength and Young's modulus of ZnO nanowires. <i>Nanotechnology</i> , <b>2007</b> , 18, 205503	3.4	121
257	Enhanced sensing of nonpolar volatile organic compounds by silicon nanowire field effect transistors. <i>ACS Nano</i> , <b>2011</b> , 5, 5620-6	16.7	119
256	Wafer Direct Bonding: From Advanced Substrate Engineering to Future Applications in Micro/Nanoelectronics. <i>Proceedings of the IEEE</i> , <b>2006</b> , 94, 2060-2106	14.3	106
255	Synthesis Mechanisms of Organized Gold Nanoparticles: Influence of Annealing Temperature and Atmosphere. <i>Crystal Growth and Design</i> , <b>2010</b> , 10, 587-596	3.5	103
254	Junction formation and current transport mechanisms in hybrid n-Si/PEDOT:PSS solar cells. <i>Scientific Reports</i> , <b>2015</b> , 5, 13008	4.9	101
253	Axial p-n junctions realized in silicon nanowires by ion implantation. <i>Nano Letters</i> , <b>2009</b> , 9, 1341-4	11.5	100

252	Critical Assessment of Analytical Methods for the Harmonized and Cost-Efficient Analysis of Microplastics. <i>Applied Spectroscopy</i> , <b>2020</b> , 74, 1012-1047	3.1	97
251	The direct writing of plasmonic gold nanostructures by electron-beam-induced deposition. <i>Advanced Materials</i> , <b>2011</b> , 23, 2657-61	24	97
250	Surface ripples, crosshatch pattern, and dislocation formation: Cooperating mechanisms in lattice mismatch relaxation. <i>Applied Physics Letters</i> , <b>1995</b> , 67, 1232-1234	3.4	94
249	Phonons as probes in self-organized SiGe islands. <i>Applied Physics Letters</i> , <b>1997</b> , 71, 3856-3858	3.4	93
248	Vapour-transport-deposition growth of ZnO nanostructures: switch between axial wires and axial belts by indium doping. <i>Nanotechnology</i> , <b>2006</b> , 17, S231-S239	3.4	89
247	Realization of Vertical and Zigzag Single Crystalline Silicon Nanowire Architectures. <i>Journal of Physical Chemistry C</i> , <b>2010</b> , 114, 3798-3803	3.8	88
246	Laser-Patterning Engineering for Perovskite Solar Modules With 95% Aperture Ratio. <i>IEEE Journal of Photovoltaics</i> , <b>2017</b> , 7, 1674-1680	3.7	83
245	Molecular gating of silicon nanowire field-effect transistors with nonpolar analytes. <i>ACS Nano</i> , <b>2012</b> , 6, 335-45	16.7	83
244	Roughness of silicon nanowire sidewalls and room temperature photoluminescence. <i>Physical Review B</i> , <b>2010</b> , 82,	3.3	82
243	Large area fabrication of vertical silicon nanowire arrays by silver-assisted single-step chemical etching and their formation kinetics. <i>Nanotechnology</i> , <b>2014</b> , 25, 175601	3.4	80
242	Composition of self-assembled Ge/Si islands in single and multiple layers. <i>Applied Physics Letters</i> , <b>2002</b> , 81, 2614-2616	3.4	74
241	Nanowire arrays in multicrystalline silicon thin films on glass: a promising material for research and applications in nanotechnology. <i>Nano Letters</i> , <b>2012</b> , 12, 4050-4	11.5	69
240	Growth of silicon nanowires by chemical vapour deposition on gold implanted silicon substrates. <i>Nanotechnology</i> , <b>2006</b> , 17, 2895-2898	3.4	69
239	Grain orientation, texture, and internal stress optically evaluated by micro-Raman spectroscopy. <i>Journal of Applied Physics</i> , <b>2007</b> , 101, 063531	2.5	69
238	Vertically Oriented Growth of GaN Nanorods on Si Using Graphene as an Atomically Thin Buffer Layer. <i>Nano Letters</i> , <b>2016</b> , 16, 3524-32	11.5	67
237	Development of an optimal filter substrate for the identification of small microplastic particles in food by micro-Raman spectroscopy. <i>Analytical and Bioanalytical Chemistry</i> , <b>2017</b> , 409, 4099-4109	4.4	66
236	The Role of Si during the Growth of GaN Micro- and Nanorods. <i>Crystal Growth and Design</i> , <b>2014</b> , 14, 1486-1492	3.5	66
235	The Role of Hole Transport in Hybrid Inorganic/Organic Silicon/Poly(3,4-ethylenedioxy-thiophene):Poly(styrenesulfonate) Heterojunction Solar Cells. <i>Journal of Physical Chemistry C</i> , <b>2013</b> , 117, 9049-9055	3.8	66

234	Chemical Passivation of Silicon Nanowires with C <sub>12</sub> Alkyl Chains through Covalent Si-C Bonds. <i>Journal of Physical Chemistry C</i> , <b>2008</b> , 112, 19168-19172	3.8	66
233	Reduced effective misfit in laterally limited structures such as epitaxial islands. <i>Applied Physics Letters</i> , <b>1995</b> , 66, 574-576	3.4	65
232	Learning with Known Operators reduces Maximum Training Error Bounds. <i>Nature Machine Intelligence</i> , <b>2019</b> , 1, 373-380	22.5	63
231	Extraction of plasticity parameters of GaN with high temperature, in situ micro-compression. <i>International Journal of Plasticity</i> , <b>2013</b> , 40, 140-151	7.6	62
230	The SERS and TERS effects obtained by gold droplets on top of Si nanowires. <i>Nano Letters</i> , <b>2007</b> , 7, 75-80	11.5	62
229	Permanent bending and alignment of ZnO nanowires. <i>Nanotechnology</i> , <b>2011</b> , 22, 185307	3.4	60
228	In Situ Electron Microscopy Mechanical Testing of Silicon Nanowires Using Electrostatically Actuated Tensile Stages. <i>Journal of Microelectromechanical Systems</i> , <b>2010</b> , 19, 663-674	2.5	60
227	Encapsulation of silver nanowire networks by atomic layer deposition for indium-free transparent electrodes. <i>Nano Energy</i> , <b>2015</b> , 16, 196-206	17.1	59
226	Critical Review of Processing and Classification Techniques for Images and Spectra in Microplastic Research. <i>Applied Spectroscopy</i> , <b>2020</b> , 74, 989-1010	3.1	57
225	Aggregated neutrophil extracellular traps resolve inflammation by proteolysis of cytokines and chemokines and protection from antiproteases. <i>FASEB Journal</i> , <b>2019</b> , 33, 1401-1414	0.9	56
224	Covalent Attachment of Alkyl Functionality to 50 nm Silicon Nanowires through a Chlorination/Alkylation Process. <i>Journal of Physical Chemistry C</i> , <b>2009</b> , 113, 14823-14828	3.8	55
223	Interface investigation of planar hybrid n-Si/PEDOT:PSS solar cells with open circuit voltages up to 645 mV and efficiencies of 12.6 %. <i>Applied Physics A: Materials Science and Processing</i> , <b>2014</b> , 115, 1109-1113	11.6	54
222	Self-assembled semiconductor nanostructures: climbing up the ladder of order. <i>Surface Science</i> , <b>2002</b> , 514, 10-18	1.8	53
221	A comparative study of Ga <sub>2</sub> O <sub>3</sub> nanowires grown on different substrates using CVD technique. <i>Journal of Alloys and Compounds</i> , <b>2014</b> , 587, 812-818	5.7	51
220	Nanowires enabling signal-enhanced nanoscale Raman spectroscopy. <i>Small</i> , <b>2008</b> , 4, 398-404	11	51
219	Potential of PEDOT:PSS as a hole selective front contact for silicon heterojunction solar cells. <i>Scientific Reports</i> , <b>2017</b> , 7, 2170	4.9	49
218	Far-field imaging for direct visualization of light interferences in GaAs nanowires. <i>Nano Letters</i> , <b>2012</b> , 12, 5412-7	11.5	48
217	Nanopatterned carbon films with engineered morphology by direct carbonization of UV-stabilized block copolymer films. <i>Nano Letters</i> , <b>2008</b> , 8, 3993-7	11.5	48

216	Spray-coating route for highly aligned and large-scale arrays of nanowires. <i>ACS Nano</i> , <b>2012</b> , 6, 4702-12	16.7	45
215	Study of iron-catalysed growth of Ga <sub>2</sub> O <sub>3</sub> nanowires and their detailed characterization using TEM, Raman and cathodoluminescence techniques. <i>Journal Physics D: Applied Physics</i> , <b>2014</b> , 47, 435101	3	44
214	Enhanced photovoltaics inspired by the fovea centralis. <i>Scientific Reports</i> , <b>2015</b> , 5, 8570	4.9	42
213	Oxide-free hybrid silicon nanowires: From fundamentals to applied nanotechnology. <i>Progress in Surface Science</i> , <b>2013</b> , 88, 39-60	6.6	42
212	Silicon nanowires terminated with methyl functionalities exhibit stronger Si-C bonds than equivalent 2D surfaces. <i>Physical Chemistry Chemical Physics</i> , <b>2009</b> , 11, 3845-8	3.6	42
211	Evolution and properties of nanodiamond films deposited by direct current glow discharge. <i>Journal of Applied Physics</i> , <b>2001</b> , 89, 2622-2630	2.5	42
210	Strong plasmonic enhancement of biexciton emission: controlled coupling of a single quantum dot to a gold nanocone antenna. <i>Scientific Reports</i> , <b>2017</b> , 7, 42307	4.9	41
209	Ultrafast Dynamics of Lasing Semiconductor Nanowires. <i>Nano Letters</i> , <b>2015</b> , 15, 4637-43	11.5	41
208	Highly p-doped regions in silicon solar cells quantitatively analyzed by small angle beveling and micro-Raman spectroscopy. <i>Journal of Applied Physics</i> , <b>2009</b> , 106, 074515	2.5	39
207	Signal enhancement in nano-Raman spectroscopy by gold caps on silicon nanowires obtained by vapour-liquid-solid growth. <i>Nanotechnology</i> , <b>2007</b> , 18, 035503	3.4	39
206	Silicon nanowire growth by electron beam evaporation: Kinetic and energetic contributions to the growth morphology. <i>Journal of Crystal Growth</i> , <b>2007</b> , 300, 288-293	1.6	38
205	Composite Nanostructures of TiO <sub>2</sub> and ZnO for Water Splitting Application: Atomic Layer Deposition Growth and Density Functional Theory Investigation. <i>Advanced Functional Materials</i> , <b>2016</b> , 26, 4882-4889	15.6	38
204	Unveiling the Hybrid n-Si/PEDOT:PSS Interface. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 8841-8	9.5	38
203	Inorganic photovoltaics [Planar and nanostructured devices]. <i>Progress in Materials Science</i> , <b>2016</b> , 82, 294-404	42.2	38
202	The Formation of Calcified Nanospherites during Micropetrosis Represents a Unique Mineralization Mechanism in Aged Human Bone. <i>Small</i> , <b>2017</b> , 13, 1602215	11	37
201	Efficient Nitrogen Doping of Single-Layer Graphene Accompanied by Negligible Defect Generation for Integration into Hybrid Semiconductor Heterostructures. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 10003-10011	9.5	36
200	Interfacing transitions of different alkali atoms and telecom bands using one narrowband photon pair source. <i>Optica</i> , <b>2015</b> , 2, 773	8.6	36
199	Improving the Optical Properties of Self-Catalyzed GaN Microrods toward Whispering Gallery Mode Lasing. <i>ACS Photonics</i> , <b>2014</b> , 1, 990-997	6.3	36

198	Stable scaffolds for reacting Si nanowires with further organic functionalities while preserving Si-C passivation of surface sites. <i>Journal of the American Chemical Society</i> , <b>2008</b> , 130, 17670-1	16.4	36
197	Strain relaxation and threading dislocation density in helium-implanted and annealed Si <sub>1-x</sub> Gex/Si(100) heterostructures. <i>Journal of Applied Physics</i> , <b>2004</b> , 95, 5347-5351	2.5	36
196	Nature of grain boundaries in laser crystallized polycrystalline silicon thin films. <i>Journal of Applied Physics</i> , <b>2001</b> , 89, 5348-5354	2.5	36
195	Microstructure of a high strength alumina glass composite. <i>Journal of Materials Research</i> , <b>1996</b> , 11, 855-858	3.5	36
194	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> , <b>2013</b> , 114, 144304	2.5	35
193	Self-Catalytic Growth of Ga <sub>2</sub> O <sub>3</sub> Nanostructures by Chemical Vapor Deposition. <i>Advanced Engineering Materials</i> , <b>2015</b> , 17, 709-715	3.5	33
192	Plasmonic dimer antennas for surface enhanced Raman scattering. <i>Nanotechnology</i> , <b>2012</b> , 23, 185303	3.4	33
191	Growth peculiarities during vapor-liquid-solid growth of silicon nanowhiskers by electron-beam evaporation. <i>Applied Physics A: Materials Science and Processing</i> , <b>2006</b> , 85, 311-315	2.6	33
190	Nano-diamond films deposited by direct current glow discharge assisted chemical vapor deposition. <i>Diamond and Related Materials</i> , <b>2000</b> , 9, 866-871	3.5	33
189	Dynamics of lateral grain growth during the laser interference crystallization of a-Si. <i>Journal of Applied Physics</i> , <b>1999</b> , 85, 4010-4023	2.5	33
188	Integration of plasmonic Ag nanoparticles as a back reflector in ultra-thin Cu(In,Ga)Se <sub>2</sub> solar cells. <i>Applied Surface Science</i> , <b>2015</b> , 355, 800-804	6.7	31
187	Bone tissue aging affects mineralization of cement lines. <i>Bone</i> , <b>2018</b> , 110, 187-193	4.7	31
186	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> , <b>1996</b> , 156, 129-150		31
185	Sensing Nanoparticles with a Cantilever-Based Scannable Optical Cavity of Low Finesse and Sub- $\lambda$ Volume. <i>Physical Review Applied</i> , <b>2015</b> , 4,	4.3	30
184	Correlating internal stresses, electrical activity and defect structure on the micrometer scale in EFG silicon ribbons. <i>Solar Energy Materials and Solar Cells</i> , <b>2011</b> , 95, 2264-2271	6.4	30
183	Growth of GaN Micro- and Nanorods on Graphene-Covered Sapphire: Enabling Conductivity to Semiconductor Nanostructures on Insulating Substrates. <i>Crystal Growth and Design</i> , <b>2015</b> , 15, 2079-2086	3.5	29
182	Nanoscale Characterization of Carrier Dynamic and Surface Passivation in InGaN/GaN Multiple Quantum Wells on GaN Nanorods. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 31887-31893	9.5	29
181	Heterojunction based hybrid silicon nanowire solar cell: surface termination, photoelectron and photoemission spectroscopy study. <i>Progress in Photovoltaics: Research and Applications</i> , <b>2014</b> , 22, 1050-1061	6.8	29

180	Early stages of oxide growth in H-terminated silicon nanowires: determination of kinetic behavior and activation energy. <i>Physical Chemistry Chemical Physics</i> , <b>2012</b> , 14, 11877-81	3.6	29
179	High quality factor whispering gallery modes from self-assembled hexagonal GaN rods grown by metal-organic vapor phase epitaxy. <i>Optics Express</i> , <b>2013</b> , 21, 2733-40	3.3	29
178	The Phenomenology of Ion Implantation-Induced Blistering and Thin-Layer Splitting in Compound Semiconductors. <i>Journal of Electronic Materials</i> , <b>2010</b> , 39, 2177-2189	1.9	29
177	Chiroptical response of a single plasmonic nanohelix. <i>Optics Express</i> , <b>2018</b> , 26, 19275-19293	3.3	28
176	Enhanced Raman Scattering of Graphene using Arrays of Split Ring Resonators. <i>Advanced Optical Materials</i> , <b>2013</b> , 1, 151-157	8.1	28
175	Frontline Science: Aggregated neutrophil extracellular traps prevent inflammation on the neutrophil-rich ocular surface. <i>Journal of Leukocyte Biology</i> , <b>2019</b> , 105, 1087-1098	6.5	27
174	Effect of rapid thermal annealing on barrier height and 1/f noise of Ni/GaN Schottky barrier diodes. <i>Applied Physics Letters</i> , <b>2015</b> , 107, 093502	3.4	27
173	A precise optical determination of nanoscale diameters of semiconductor nanowires. <i>Nanotechnology</i> , <b>2011</b> , 22, 385201	3.4	27
172	Resonant Raman scattering by acoustical phonons in Ge/Si self-assembled quantum dots: Interferences and ordering effects. <i>Physical Review B</i> , <b>2000</b> , 62, 7243-7248	3.3	27
171	Barrier inhomogeneities limited current and 1/f noise transport in GaN based nanoscale Schottky barrier diodes. <i>Scientific Reports</i> , <b>2016</b> , 6, 27553	4.9	26
170	Maximizing the ultimate absorption efficiency of vertically-aligned semiconductor nanowire arrays with wires of a low absorption cross-section. <i>Nano Energy</i> , <b>2015</b> , 12, 801-809	17.1	26
169	Silicon nanowire oxidation: the influence of sidewall structure and gold distribution. <i>Nanotechnology</i> , <b>2009</b> , 20, 405607	3.4	26
168	Influence of magnesium doping on the structural properties of GaN layers. <i>Journal of Crystal Growth</i> , <b>1997</b> , 181, 197-203	1.6	26
167	Engineering Nanoporous Iron(III) Oxide into an Effective Water Oxidation Electrode. <i>ChemCatChem</i> , <b>2015</b> , 7, 2455-2459	5.2	25
166	Complementary cathodoluminescence lifetime imaging configurations in a scanning electron microscope. <i>Ultramicroscopy</i> , <b>2019</b> , 197, 28-38	3.1	25
165	Photon bunching reveals single-electron cathodoluminescence excitation efficiency in InGaN quantum wells. <i>Physical Review B</i> , <b>2017</b> , 96,	3.3	24
164	Optical properties of vertical, tilted and in-plane GaN nanowires on different crystallographic orientations of sapphire. <i>Journal Physics D: Applied Physics</i> , <b>2014</b> , 47, 394008	3	24
163	Lateral Grain Growth during the Laser Interference Crystallization of a-Si. <i>Physica Status Solidi A</i> , <b>1998</b> , 166, 659-666		24



162	Microstructure and phase composition evolution of nano-crystalline carbon films: Dependence on deposition temperature. <i>Journal of Applied Physics</i> , <b>2002</b> , 91, 3336-3344	2.5	24
161	Formation of nanovoids in high-dose hydrogen implanted GaN. <i>Applied Physics Letters</i> , <b>2006</b> , 89, 031912	3.4	23
160	Vapor-liquid-solid growth of silicon nanowires by chemical vapor deposition on implanted templates. <i>Journal of Applied Physics</i> , <b>2006</b> , 100, 084323	2.5	23
159	Significant performance enhancement of InGaN/GaN nanorod LEDs with multi-layer graphene transparent electrodes by alumina surface passivation. <i>Nanotechnology</i> , <b>2017</b> , 28, 055201	3.4	22
158	Strain relaxation in nanopatterned strained silicon round pillars. <i>Applied Physics Letters</i> , <b>2007</b> , 90, 021903	3.4	22
157	Investigation of hydrogen implantation induced blistering in GaN. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , <b>2006</b> , 3, 1754-1757		22
156	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> , <b>2002</b> , 89, 101-105	3.1	22
155	Strain and composition in self-assembled SiGe islands by Raman spectroscopy. <i>Journal of Applied Physics</i> , <b>2002</b> , 91, 6772	2.5	22
154	Plasmonic gold helices for the visible range fabricated by oxygen plasma purification of electron beam induced deposits. <i>Nanotechnology</i> , <b>2017</b> , 28, 055303	3.4	21
153	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> , <b>2014</b> , 6, 11953-62	7.7	21
152	Glow discharge techniques in the chemical analysis of photovoltaic materials. <i>Progress in Photovoltaics: Research and Applications</i> , <b>2014</b> , 22, 371-382	6.8	21
151	Catalyst-free functionalization for versatile modification of nonoxidized silicon structures. <i>Langmuir</i> , <b>2011</b> , 27, 4764-71	4	21
150	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> , <b>2014</b> , 186, 89-93	3.1	20
149	Charge transfer doping of silicon. <i>Physical Review Letters</i> , <b>2014</b> , 112, 155502	7.4	20
148	Direct laser writing of chips based on hybrid C-Au-Ag nanoparticles for express analysis of hazardous and biological substances. <i>Lab on A Chip</i> , <b>2015</b> , 15, 1742-7	7.2	20
147	Toward local growth of individual nanowires on three-dimensional microstructures by using a minimally invasive catalyst templating method. <i>Nano Letters</i> , <b>2011</b> , 11, 4213-7	11.5	20
146	Microstructure of laser-crystallized silicon thin films on glass substrate. <i>Journal of Applied Physics</i> , <b>2002</b> , 91, 4125-4130	2.5	20
145	Mechanism of nanodiamond film formation by stress relaxation on a preferentially oriented vertical basal plane graphitic precursor. <i>Journal of Applied Physics</i> , <b>2001</b> , 89, 5769-5773	2.5	20



144	Early growth stages of Ge <sub>0.85</sub> Si <sub>0.15</sub> on Si(001) from Bi solution. <i>Surface Science</i> , <b>1995</b> , 331-333, 896-901	1.8	20
143	Next-generation imaging of the skeletal system and its blood supply. <i>Nature Reviews Rheumatology</i> , <b>2019</b> , 15, 533-549	8.1	19
142	Field-effect transistors based on silicon nanowire arrays: effect of the good and the bad silicon nanowires. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2012</b> , 4, 4251-8	9.5	19
141	Near-field investigations of nanoshell cylinder dimers. <i>Journal of Chemical Physics</i> , <b>2009</b> , 131, 164704	3.9	19
140	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> , <b>2006</b> , 135, 184-187	3.1	19
139	Systematic increase of electrocatalytic turnover at nanoporous platinum surfaces prepared by atomic layer deposition. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 8450-8458	13	18
138	New insights into colloidal gold flakes: structural investigation, micro-ellipsometry and thinning procedure towards ultrathin monocrystalline layers. <i>Nanoscale</i> , <b>2016</b> , 8, 4529-36	7.7	18
137	Growth of doped silicon nanowires by pulsed laser deposition and their analysis by electron beam induced current imaging. <i>Nanotechnology</i> , <b>2011</b> , 22, 075706	3.4	18
136	Ordered arrays of epitaxial silicon nanowires produced by nanosphere lithography and chemical vapor deposition. <i>Journal of Crystal Growth</i> , <b>2010</b> , 312, 2887-2891	1.6	18
135	Mechanical properties and microstructural analysis of a diamond-like carbon coating on an alumina/glass composite. <i>Journal of Materials Research</i> , <b>1996</b> , 11, 1934-1942	2.5	18
134	Probing photo-carrier collection efficiencies of individual silicon nanowire diodes on a wafer substrate. <i>Nanoscale</i> , <b>2014</b> , 6, 7897-902	7.7	17
133	Observation of strongly enhanced photoluminescence from inverted cone-shaped silicon nanostructures. [corrected]. <i>Scientific Reports</i> , <b>2015</b> , 5, 17089	4.9	17
132	Fabrication and characterization of plasmonic nanocone antennas for strong spontaneous emission enhancement. <i>Nanotechnology</i> , <b>2015</b> , 26, 404001	3.4	17
131	Lithographically patterned silicon nanowire arrays for matrix free LDI-TOF/MS analysis of lipids. <i>Lab on A Chip</i> , <b>2010</b> , 10, 320-5	7.2	17
130	Coherent X-Ray Scattering Phenomenon in Highly Disordered Epitaxial AlN Films. <i>Physica Status Solidi A</i> , <b>1997</b> , 162, 529-535		17
129	Towards fully integrated photonic displacement sensors. <i>Nature Communications</i> , <b>2020</b> , 11, 2915	17.4	16
128	Statistical model on the optical properties of silicon nanowire mats. <i>Physical Review B</i> , <b>2011</b> , 84,	3.3	16
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