

Andreas Waag

List of Publications by Year in descending order

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164
papers

3,555
citations

159585

30
h-index

168389

53
g-index

169
all docs

169
docs citations

169
times ranked

3541
citing authors

#	ARTICLE	IF	CITATIONS
1	GaN based nanorods for solid state lighting. Journal of Applied Physics, 2012, 111, .	2.5	463
2	Beyond solid-state lighting: Miniaturization, hybrid integration, and applications of GaN nano- and micro-LEDs. Applied Physics Reviews, 2019, 6, .	11.3	194
3	Airborne engineered nanoparticle mass sensor based on a silicon resonant cantilever. Sensors and Actuators B: Chemical, 2013, 180, 77-89.	7.8	136
4	The nanorod approach: GaN NanoLEDs for solid state lighting. Physica Status Solidi C: Current Topics in Solid State Physics, 2011, 8, 2296-2301.	0.8	128
5	A Highly Selective and Self-Powered Gas Sensor Via Organic Surface Functionalization of p-Si/n-ZnO Diodes. Advanced Materials, 2014, 26, 8017-8022.	21.0	103
6	A Parts Per Billion (ppb) Sensor for NO ₂ with Microwatt (1/4W) Power Requirements Based on Micro Light Plates. ACS Sensors, 2019, 4, 822-826.	7.8	85
7	Continuous-Flow MOVPE of Ga-Polar GaN Column Arrays and Core-Shell LED Structures. Crystal Growth and Design, 2013, 13, 3475-3480.	3.0	80
8	Group III nitride core-shell nano- and microrods for optoelectronic applications. Physica Status Solidi - Rapid Research Letters, 2013, 7, 800-814.	2.4	76
9	Highly Selective SAM-Nanowire Hybrid NO ₂ Sensor: Insight into Charge Transfer Dynamics and Alignment of Frontier Molecular Orbitals. Advanced Functional Materials, 2014, 24, 595-602.	14.9	71
10	Band Engineered Epitaxial 3D GaN-InGaN Core-Shell Rod Arrays as an Advanced Photoanode for Visible-Light-Driven Water Splitting. ACS Applied Materials & Interfaces, 2014, 6, 2235-2240.	8.0	69
11	Silicon resonant nanopillar sensors for airborne titanium dioxide engineered nanoparticle mass detection. Sensors and Actuators B: Chemical, 2013, 189, 146-156.	7.8	63
12	Sintering of Copper Particles for Die Attach. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2012, 2, 1587-1591.	2.5	60
13	Handheld personal airborne nanoparticle detector based on microelectromechanical silicon resonant cantilever. Microelectronic Engineering, 2015, 145, 96-103.	2.4	59
14	GaN nanowire arrays with nonpolar sidewalls for vertically integrated field-effect transistors. Nanotechnology, 2017, 28, 095206.	2.6	58
15	Portable cantilever-based airborne nanoparticle detector. Sensors and Actuators B: Chemical, 2013, 187, 118-127.	7.8	50
16	Phosphor-converted white light from blue-emitting InGaN microrod LEDs. Physica Status Solidi (A) Applications and Materials Science, 2016, 213, 1577-1584.	1.8	48
17	Polarity Control in 3D GaN Structures Grown by Selective Area MOVPE. Crystal Growth and Design, 2012, 12, 2552-2556.	3.0	45
18	Growth kinetics and mass transport mechanisms of GaN columns by selective area metal organic vapor phase epitaxy. Journal of Applied Physics, 2014, 115, .	2.5	44

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19	A phase-locked loop frequency tracking system for portable microelectromechanical piezoresistive cantilever mass sensors. <i>Microsystem Technologies</i> , 2014, 20, 559-569.	2.0	44
20	Vertical GaN Nanowires and Nanoscale Light-Emitting-Diode Arrays for Lighting and Sensing Applications. <i>ACS Applied Nano Materials</i> , 2019, 2, 4133-4142.	5.0	44
21	Pick-and-Place Silver Sintering Die Attach of Small-Area Chips. <i>IEEE Transactions on Components, Packaging and Manufacturing Technology</i> , 2012, 2, 199-207.	2.5	42
22	Micro light plates for low-power photoactivated (gas) sensors. <i>Applied Physics Letters</i> , 2019, 114, .	3.3	42
23	Fabrication and characterization of flexible solar cell from electrodeposited Cu ₂ O thin film on plastic substrate. <i>Solar Energy</i> , 2015, 122, 1193-1198.	6.1	41
24	Ultrashort Pulse Laser Lift-Off Processing of InGaN/GaN Light-Emitting Diode Chips. <i>ACS Applied Electronic Materials</i> , 2021, 3, 778-788.	4.3	41
25	Fabrication and characterization of low cost Cu ₂ O/ZnO:Al solar cells for sustainable photovoltaics with earth abundant materials. <i>Solar Energy Materials and Solar Cells</i> , 2016, 145, 454-461.	6.2	40
26	Femtogram aerosol nanoparticle mass sensing utilising vertical silicon nanowire resonators. <i>Micro and Nano Letters</i> , 2013, 8, 554-558.	1.3	38
27	Growth mechanisms of GaN microrods for 3D core-shell LEDs: The influence of silane flow. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2015, 212, 2830-2836.	1.8	34
28	Normally Off Vertical 3-D GaN Nanowire MOSFETs With Inverted p-GaN Channel. <i>IEEE Transactions on Electron Devices</i> , 2018, 65, 2439-2445.	3.0	32
29	Top-down GaN nanowire transistors with nearly zero gate hysteresis for parallel vertical electronics. <i>Scientific Reports</i> , 2019, 9, 10301.	3.3	32
30	3D GaN nanoarchitecture for field-effect transistors. <i>Micro and Nano Engineering</i> , 2019, 3, 59-81.	2.9	32
31	Finite element modeling and experimental proof of NEMS-based silicon pillar resonators for nanoparticle mass sensing applications. <i>Microsystem Technologies</i> , 2014, 20, 571-584.	2.0	31
32	Analysis and Modeling of Thermomechanically Improved Silver-Sintered Die-Attach Layers Modified by Additives. <i>IEEE Transactions on Components, Packaging and Manufacturing Technology</i> , 2011, 1, 1846-1855.	2.5	30
33	Evaluation of photoresist-based nanoparticle removal method for recycling silicon cantilever mass sensors. <i>Sensors and Actuators A: Physical</i> , 2013, 202, 90-99.	4.1	30
34	High Aspect Ratio GaN Fin Microstructures with Nonpolar Sidewalls by Continuous Mode Metalorganic Vapor Phase Epitaxy. <i>Crystal Growth and Design</i> , 2016, 16, 1458-1462.	3.0	30
35	Directly addressable GaN-based nano-LED arrays: fabrication and electro-optical characterization. <i>Microsystems and Nanoengineering</i> , 2020, 6, 88.	7.0	30
36	Nitrogen-polar core-shell GaN light-emitting diodes grown by selective area metalorganic vapor phase epitaxy. <i>Applied Physics Letters</i> , 2012, 101, .	3.3	29

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37	Integrated Strategy toward Self-Powering and Selectivity Tuning of Semiconductor Gas Sensors. ACS Sensors, 2016, 1, 1256-1264.	7.8	28
38	Femtosecond Laser Lift-Off with Sub-Bandgap Excitation for Production of Free-Standing GaN Light-Emitting Diode Chips. Advanced Engineering Materials, 2020, 22, 1901192.	3.5	28
39	Wafer-scale transfer route for top-down III-nitride nanowire LED arrays based on the femtosecond laser lift-off technique. Microsystems and Nanoengineering, 2021, 7, 32.	7.0	27
40	Vertical silicon nanowire array-patterned microcantilever resonators for enhanced detection of cigarette smoke aerosols. Micro and Nano Letters, 2014, 9, 676-679.	1.3	26
41	ZnO-GaN Hybrid Heterostructures as Potential Cost-Efficient LED Technology. Proceedings of the IEEE, 2010, 98, 1281-1287.	21.3	25
42	Gold-modified indium tin oxide as a transparent window in optoelectronic diagnostics of electrochemically active biofilms. Biosensors and Bioelectronics, 2017, 94, 74-80.	10.1	24
43	Dependence of N-polar GaN rod morphology on growth parameters during selective area growth by MOVPE. Journal of Crystal Growth, 2013, 364, 149-154.	1.5	23
44	Effect of Potentiostatic and Galvanostatic Electrodeposition Modes on the Basic Parameters of Solar Cells Based on Cu ₂ O Thin Films. ECS Journal of Solid State Science and Technology, 2016, 5, Q183-Q187.	1.8	23
45	Insights into Interfacial Changes and Photoelectrochemical Stability of In _x Ga _{1-x} N (0001) Photoanode Surfaces in Liquid Environments. ACS Applied Materials & Interfaces, 2016, 8, 8232-8238.	8.0	23
46	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
47	Direct correlations of structural and optical properties of three-dimensional GaN/InGaN core/shell micro-light emitting diodes. Japanese Journal of Applied Physics, 2016, 55, 05FJ09.	1.5	22
48	Polarity analysis of GaN nanorods by photo-assisted Kelvin probe force microscopy. Physica Status Solidi C: Current Topics in Solid State Physics, 2011, 8, 2157-2159.	0.8	21
49	Facile and Efficient Atomic Hydrogenation Enabled Black TiO ₂ with Enhanced Photoelectrochemical Activity via a Favorably Low-Energy Barrier Pathway. Advanced Energy Materials, 2019, 9, 1900725.	19.5	21
50	High-Temperature Performance of Stacked Silicon Nanowires for Thermoelectric Power Generation. Journal of Electronic Materials, 2013, 42, 2233-2238.	2.2	19
51	Direct imaging of Indium-rich triangular nanoprisms self-organized formed at the edges of InGaN/GaN core-shell nanorods. Scientific Reports, 2018, 8, 16026.	3.3	19
52	Toward three-dimensional hybrid inorganic/organic optoelectronics based on GaN/oCVD-PEDOT structures. Nature Communications, 2020, 11, 5092.	12.8	19
53	Silicon Nanowire Resonators: Aerosol Nanoparticle Mass Sensing in the Workplace. IEEE Nanotechnology Magazine, 2013, 7, 18-23.	1.3	18
54	Nanofocus x-ray diffraction and cathodoluminescence investigations into individual core-shell (In,Ga)N/GaN rod light-emitting diodes. Nanotechnology, 2016, 27, 325707.	2.6	18

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55	Nano illumination microscopy: a technique based on scanning with an array of individually addressable nanoLEDs. Optics Express, 2020, 28, 19044.	3.4	18
56	Thermal characterization of vertical silicon nanowires. Journal of Materials Research, 2011, 26, 1958-1962.	2.6	17
57	Demonstration of (In, Ga)N/GaN Core-Shell Micro Light-Emitting Diodes Grown by Molecular Beam Epitaxy on Ordered MOVPE GaN Pillars. Crystal Growth and Design, 2015, 15, 3661-3665.	3.0	17
58	Study of 3D-growth conditions for selective area MOVPE of high aspect ratio GaN fins with non-polar vertical sidewalls. Journal of Crystal Growth, 2017, 476, 90-98.	1.5	17
59	Enhanced Photoelectrochemical Behavior of H-TiO ₂ Nanorods Hydrogenated by Controlled and Local Rapid Thermal Annealing. Nanoscale Research Letters, 2017, 12, 336.	5.7	16
60	Continuous Live-Cell Culture Imaging and Single-Cell Tracking by Computational Lensfree LED Microscopy. Sensors, 2019, 19, 1234.	3.8	16
61	Visible Light-Driven p-Type Semiconductor Gas Sensors Based on CaFe ₂ O ₄ Nanoparticles. Sensors, 2020, 20, 850.	3.8	16
62	Thermoelectric Coolers with Sintered Silver Interconnects. Journal of Electronic Materials, 2014, 43, 2397-2404.	2.2	15
63	Highly stable threshold voltage in GaN nanowire FETs: The advantages of <i>i</i> -GaN channel/Al ₂ O ₃ gate insulator. Applied Physics Letters, 2020, 117, .	3.3	15
64	GaN nanorods and LED structures grown on patterned Si and AlN/Si substrates by selective area growth. Physica Status Solidi C: Current Topics in Solid State Physics, 2010, 7, 2224-2226.	0.8	14
65	Transparent conductive Ga-doped ZnO films fabricated by MOCVD. Physica Status Solidi (A) Applications and Materials Science, 2012, 209, 708-713.	1.8	13
66	Performance analysis and simulation of vertical gallium nitride nanowire transistors. Solid-State Electronics, 2018, 144, 73-77.	1.4	13
67	Vertical 3D gallium nitride field-effect transistors based on fin structures with inverted p-doped channel. Semiconductor Science and Technology, 2021, 36, 014002.	2.0	13
68	Luminescence and efficiency optimization of InGaN/GaN core-shell nanowire LEDs by numerical modelling. Proceedings of SPIE, 2012, , .	0.8	12
69	Characterization of the internal properties of InGaN/GaN core-shell LEDs. Physica Status Solidi (A) Applications and Materials Science, 2016, 213, 11-18.	1.8	12
70	Structure and Composition of Isolated Core-Shell $\frac{1}{T_j} = \frac{1}{T_{j0}} + \frac{1}{T_{j1}} + \frac{1}{T_{j2}} + \dots$	3.8	12
71	Point Defect-Induced UV-Vis Absorption in Aluminum Nitride Epitaxial Layers Grown on Sapphire Substrates by Metal-Organic Chemical Vapor Deposition. Physica Status Solidi (B): Basic Research, 2020, 257, 2000278.	1.5	12
72	GaN and LED structures grown on pre-patterned silicon pillar arrays. Physica Status Solidi C: Current Topics in Solid State Physics, 2010, 7, 84-87.	0.8	11

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73	Fabrication and characterization of nanoporous ZnO layers for sensing applications. <i>Thin Solid Films</i> , 2012, 520, 4662-4665.	1.8	11
74	Mechanism of nucleation and growth of catalyst-free self-organized GaN columns by MOVPE. <i>Journal Physics D: Applied Physics</i> , 2013, 46, 205101.	2.8	11
75	Highly Specific and Wide Range NO ₂ Sensor with Color Readout. <i>ACS Sensors</i> , 2017, 2, 1612-1618.	7.8	11
76	Area-Selective Growth of Aligned ZnO Nanorod Arrays for MEMS Device Applications. <i>Proceedings (mdpi)</i> , 2018, 2, .	0.2	11
77	Traceable Nanomechanical Metrology of GaN Micropillar Array. <i>Advanced Engineering Materials</i> , 2018, 20, 1800353.	3.5	11
78	Photoluminescence of planar and 3D InGaN/GaN LED structures excited with femtosecond laser pulses close to the damage threshold. <i>Scientific Reports</i> , 2018, 8, 11560.	3.3	11
79	Size-Dependent Electroluminescence and Current-Voltage Measurements of Blue InGaN/GaN μ LEDs down to the Submicron Scale. <i>Nanomaterials</i> , 2021, 11, 836.	4.1	11
80	Gallium nitride heterostructures on 3D structured silicon. <i>Nanotechnology</i> , 2008, 19, 405301.	2.6	10
81	Selective area growth of GaN rod structures by MOVPE: Dependence on growth conditions. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2011, 8, 2318-2320.	0.8	10
82	Two step deposition method with a high growth rate for ZnO nanowire arrays and its application in photovoltaics. <i>Thin Solid Films</i> , 2012, 520, 4637-4641.	1.8	10
83	Characterisation of 3D GaN/InGaN core-shell nanostructures by transmission electron microscopy. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2014, 11, 425-427.	0.8	9
84	Growth and characterization of mixed polar GaN columns and core-shell LEDs. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2015, 212, 727-731.	1.8	9
85	Photo-assisted Kelvin probe force microscopy investigation of three dimensional GaN structures with various crystal facets, doping types, and wavelengths of illumination. <i>Journal of Applied Physics</i> , 2017, 122, 085307.	2.5	9
86	Three-dimensionally structured silicon as a substrate for the MOVPE growth of GaN nanoLEDs. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2009, 206, 1194-1198.	1.8	8
87	Die-attach for high-temperature applications using fineplacer-pressure-sintering (FPS). , 2010, , .		8
88	Towards nanorod LEDs: Numerical predictions and controlled growth. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2011, 8, 2305-2307.	0.8	8
89	Toward Three-Dimensional Microelectronic Systems: Directed Self-Assembly of Silicon Microcubes via DNA Surface Functionalization. <i>Langmuir</i> , 2013, 29, 8410-8416.	3.5	8
90	The influence of MOVPE growth conditions on the shell of core-shell GaN microrod structures. <i>Journal of Crystal Growth</i> , 2017, 465, 34-42.	1.5	8

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91	InGaN/GaN nanoLED Arrays as a Novel Illumination Source for Biomedical Imaging and Sensing Applications. Proceedings (mdpi), 2018, 2, .	0.2	8
92	Zn acceptor position in GaN:Zn probed by contactless electroreflectance spectroscopy. Applied Physics Letters, 2018, 113, .	3.3	8
93	Electroluminescence and current-voltage measurements of single-(In,Ga)N/GaN-nanowire light-emitting diodes in a nanowire ensemble. Beilstein Journal of Nanotechnology, 2019, 10, 1177-1187.	2.8	8
94	Visible-Light-Driven Room Temperature NO ₂ Gas Sensor Based on Localized Surface Plasmon Resonance: The Case of Gold Nanoparticle Decorated Zinc Oxide Nanorods (ZnO NRs). Chemosensors, 2022, 10, 28.	3.6	8
95	Investigation of Thermoelectric Parameters of Bi ₂ Te ₃ : TEGs Assembled using Pressure-Assisted Silver Powder Sintering-Based Joining Technology. Journal of Electronic Materials, 2015, 44, 2055-2060.	2.2	7
96	LED-Based Tomographic Imaging for Live-Cell Monitoring of Pancreatic Islets in Microfluidic Channels. Proceedings (mdpi), 2017, 1, .	0.2	7
97	3D GaN Fins as a Versatile Platform for a-Plane-Based Devices. Physica Status Solidi (B): Basic Research, 2019, 256, 1800477.	1.5	7
98	Electron beam lithography for contacting single nanowires on non-flat suspended substrates. Sensors and Actuators B: Chemical, 2019, 286, 616-623.	7.8	7
99	Implementation of ZnO/ZnMgO strained-layer superlattice for ZnO heteroepitaxial growth on sapphire. Journal of Crystal Growth, 2011, 323, 111-113.	1.5	6
100	Packaging of MEMS and MOEMS for harsh environments. Journal of Micro/ Nanolithography, MEMS, and MOEMS, 2012, 11, 021202-1.	0.9	6
101	The MOVPE growth mechanism of catalyst-free self-organized GaN columns in H ₂ and N ₂ carrier gases. Journal of Crystal Growth, 2013, 384, 61-65.	1.5	6
102	Defect generation by nitrogen during pulsed sputter deposition of GaN. Journal of Applied Physics, 2018, 124, 175701.	2.5	6
103	Nano-structured transmissive spectral filter matrix based on guided-mode resonances. Journal of the European Optical Society-Rapid Publications, 2019, 15, .	1.9	6
104	A Compact Calibratable Pulse Oximeter Based on Color Filters: Towards a Quantitative Analysis of Measurement Uncertainty. IEEE Sensors Journal, 2021, 21, 7522-7531.	4.7	6
105	Femtogram Mass Measurement of Airborne Engineered Nanoparticles using Silicon Nanopillar Resonators. Procedia Engineering, 2012, 47, 289-292.	1.2	5
106	Oxides for sustainable photovoltaics with earth-abundant materials. Proceedings of SPIE, 2014, , .	0.8	5
107	Surface photovoltage behavior of GaN columns. Physica Status Solidi (A) Applications and Materials Science, 2015, 212, 732-735.	1.8	5
108	Demonstration of UV-Induced Threshold Voltage Instabilities in Vertical GaN Nanowire Array-Based Transistors. IEEE Transactions on Electron Devices, 2019, 66, 2119-2124.	3.0	5

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109	Nonmechanical parfocal and autofocus features based on wave propagation distribution in lensfree holographic microscopy. Scientific Reports, 2021, 11, 3213.	3.3	5
110	Processing and Characterization of Monolithic Passive-Matrix GaN-Based MicroLED Arrays With Pixel Sizes From 5 to 50 Åµm. IEEE Photonics Journal, 2021, 13, 1-9.	2.0	5
111	Gradients in Three-Dimensional Core-Shell GaN/InGaN Structures: Optimization and Physical Limitations. ACS Applied Materials & Interfaces, 2022, 14, 9272-9280.	8.0	5
112	AlGaIn Microfins as Nonpolar UV Emitters Probed by Time-Resolved Cathodoluminescence. ACS Photonics, 2022, 9, 1594-1604.	6.6	5
113	Computational study of carrier injection in III-nitride core-shell nanowire-LEDs. , 2011, , .		4
114	Determination of zinc concentration in GaN:Zn,Si from photoluminescence. Physica Status Solidi C: Current Topics in Solid State Physics, 2013, 10, 523-526.	0.8	4
115	MEMS-based silicon cantilevers with integrated electrothermal heaters for airborne ultrafine particle sensing. Proceedings of SPIE, 2013, , .	0.8	4
116	Vapour phase epitaxy of Cu ₂ O on a-plane Al ₂ O ₃ . Physica Status Solidi C: Current Topics in Solid State Physics, 2013, 10, 1284-1287.	0.8	4
117	Recombination dynamics in planar and three-dimensional InGaN/GaN light emitting diode structures. Journal of Materials Research, 2017, 32, 2456-2463.	2.6	4
118	Nanofabrication of Vertically Aligned 3D GaN Nanowire Arrays with Sub-50 nm Feature Sizes Using Nanosphere Lift-off Lithography. Proceedings (mdpi), 2017, 1, 309.	0.2	4
119	Pursuing the Diffraction Limit with Nano-LED Scanning Transmission Optical Microscopy. Sensors, 2021, 21, 3305.	3.8	4
120	Individually Switchable InGaN/GaN Nano-LED Arrays as Highly Resolved Illumination Engines. Electronics (Switzerland), 2021, 10, 1829.	3.1	4
121	Interpretation of transport measurements in ZnO-thin films. Applied Physics A: Materials Science and Processing, 2011, 102, 161-168.	2.3	3
122	Design and fabrication of piezoresistive p-SOI Wheatstone bridges for high-temperature applications. , 2011, , .		3
123	Electrothermal piezoresistive cantilever resonators for personal measurements of nanoparticles in workplace exposure. Proceedings of SPIE, 2015, , .	0.8	3
124	Anomalous surface potential behavior observed in InN by photoassisted Kelvin probe force microscopy. Applied Physics Letters, 2017, 110, 222103.	3.3	3
125	Structural Modifications in Free-Standing InGaN/GaN LEDs after Femtosecond Laser Lift-Off. Proceedings (mdpi), 2018, 2, .	0.2	3
126	UV-LED Photo-Activated Room Temperature NO ₂ Sensors Based on Nanostructured ZnO/AlN Thin Films. Proceedings (mdpi), 2019, 2, .	0.2	3

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127	Visible Light Activated Room Temperature Gas Sensors Based on CaFe ₂ O ₄ Nanopowders. Proceedings (mdpi), 2018, 2, 834.	0.2	3
128	Continuous Live-Cell Culture Monitoring by Compact Lensless LED Microscopes. Proceedings (mdpi), 2018, 2, .	0.2	3
129	Pinhole microLED Array as Point Source Illumination for Miniaturized Lensless Cell Monitoring Systems. Proceedings (mdpi), 2018, 2, .	0.2	3
130	Transferable Substrateless GaN LED Chips Produced by Femtosecond Laser Lift-Off for Flexible Sensor Applications. Proceedings (mdpi), 2018, 2, 891.	0.2	3
131	Piezoresistive Microcantilevers 3D-Patterned Using Zn-Nanorods@Silicon-Nanopillars for Room-Temperature Ethanol Detection. , 2019, , .		3
132	Thermoelectric Generators Fabricated from Large-Scale-Produced Zr-/Hf-Based Half-Heusler Compounds Using Ag Sinter Bonding. Journal of Electronic Materials, 2019, 48, 5363-5374.	2.2	3
133	Time-resolved cathodoluminescence investigations of AlN:Ge/GaN nanowire structures. Nano Express, 2021, 2, 034001.	2.4	3
134	GaN BASED 3D CORE-SHELL LEDs. International Journal of High Speed Electronics and Systems, 2012, 21, 1250008.	0.7	2
135	Zn doped GaN for single-photon emission. Physica Status Solidi C: Current Topics in Solid State Physics, 2012, 9, 1024-1027.	0.8	2
136	Fabrication of wear-resistant silicon microprobe tips for high-speed surface roughness scanning devices. Proceedings of SPIE, 2015, , .	0.8	2
137	Charge Transfer Characteristics of n-type In _{0.1} Ga _{0.9} N Photoanode across Semiconductor-Liquid Interface. Journal of Physical Chemistry C, 2016, 120, 28917-28923.	3.1	2
138	Thermal performance analysis of GaN nanowire and fin-shaped power transistors based on self-consistent electrothermal simulations. Microelectronics Reliability, 2018, 91, 227-231.	1.7	2
139	Fabrication and characterization of single-pair thermoelectric generators of bismuth telluride using silver-sintering technology. Materials Today: Proceedings, 2018, 5, 10401-10407.	1.8	2
140	Ultra Low Power Mass-Producible Gas Sensor Based on Efficient Self-Heated GaN Nanorods. , 2019, , .		2
141	Silicon Nanopillars with ZNO Nanorods by Nanosphere Lithography on a Piezoresistive Microcantilever. , 2019, , .		2
142	Optical second- and third-harmonic generation on excitons in ZnSe/BeTe quantum wells. Physical Review B, 2020, 102, .	3.2	2
143	Method for non-invasive hemoglobin oxygen saturation measurement using broadband light source and color filters. , 2019, , .		2
144	Towards a super-resolution structured illumination microscope based on an array of nanoLEDs. , 2019, , .		2

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145	Sinter-attach of high-temperature sensors for deep-drilling monitoring. , 2012, , .		1
146	Effect of Photoresist Coating on the Reusable Resonant Cantilever Sensors for Assessing Exposure to Airborne Nanoparticles. Procedia Engineering, 2012, 47, 302-305.	1.2	1
147	Simulation and characterization of silicon nanopillar-based nanoparticle sensors. , 2013, , .		1
148	Vertical 3D GaN Nanoarchitectures towards an Integrated Optoelectronic Biosensing Platform in Microbial Fuel Cells. Proceedings (mdpi), 2017, 1, .	0.2	1
149	Top-Down Fabrication of Arrays of Vertical GaN Nanorods with Freestanding Top Contacts for Environmental Exposure. Proceedings (mdpi), 2018, 2, .	0.2	1
150	Pixel-Wise Multispectral Sensing System Using Nanostructured Filter Matrix for Biomedical Applications. Proceedings (mdpi), 2018, 2, 880.	0.2	1
151	Artificial Neural Networks for Automated Cell Quantification in Lensless LED Imaging Systems. Proceedings (mdpi), 2018, 2, .	0.2	1
152	A Microwatt Gas Sensor for No2 Detection in the Parts Per Billion Range. , 2019, , .		1
153	Fabrication of SiO ₂ microcantilever arrays for mechanical loss measurements. Materials Research Express, 2019, 6, 045206.	1.6	1
154	A Novel Approach for a Chip-Sized Scanning Optical Microscope. Micromachines, 2021, 12, 527.	2.9	1
155	Silicon nanowire resonators for aerosol nanoparticle mass sensing. , 2013, , .		0
156	A closed-loop system for frequency tracking of piezoresistive cantilever sensors. , 2013, , .		0
157	Fabrication of vertical nanowire resonators for aerosol exposure assessment. Proceedings of SPIE, 2013, , .	0.8	0
158	In-plane-excited silicon nanowire arrays-patterned cantilever sensors for enhanced airborne particulate matter exposure detection. , 2014, , .		0
159	Nanofabrication of SOI-Based Photonic Waveguide Resonators for Gravimetric Molecule Detection. Proceedings (mdpi), 2018, 2, 1055.	0.2	0
160	A Light-Activated Micropower Gas Sensor for the Detection of NO2 Down to the Parts Per Billion Range. , 2019, , .		0
161	Efficient Self-Heating in Gallium Nitride Nanopillars for Ultra-Low-Power Mass-Produced Gas Sensors. , 2019, , .		0
162	Plasma profiling time-of-flight mass spectrometry for fast elemental analysis of semiconductor structures with depth resolution in the nanometer range. Semiconductor Science and Technology, 2020, 35, 035006.	2.0	0

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163	Instrumentation for Nano-Illumination Microscopy Based on InGaN/GaN NanoLED Arrays. , 2020, , .		0
164	Dynamic and Capacitive Characterization of 3D GaN n-p-n Vertical Fin-FETs. , 2021, , .		0