

Hutomo Suryo Wasisto

List of Publications by Year in descending order

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176
papers

3,715
citations

136950

32
h-index

155660

55
g-index

177
all docs

177
docs citations

177
times ranked

3320
citing authors

#	ARTICLE	IF	CITATIONS
1	Transparent porous polymer sheets for efficient product separation in solar water splitting. <i>Sustainable Energy and Fuels</i> , 2022, 6, 377-385.	4.9	6
2	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). <i>Chemosensors</i> , 2022, 10, 28.	3.6	8
3	Gradients in Three-Dimensional Core-Shell GaN/InGaN Structures: Optimization and Physical Limitations. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 9272-9280.	8.0	5
4	Cellular lasers for cell imaging and biosensing. <i>Acta Biomaterialia</i> , 2022, 143, 39-51.	8.3	10
5	Intracellular gold nanoparticles influence light scattering and facilitate amplified spontaneous emission generation. <i>Journal of Colloid and Interface Science</i> , 2022, 622, 914-923.	9.4	5
6	Hybrid learning method based on feature clustering and scoring for enhanced COVID-19 breath analysis by an electronic nose. <i>Artificial Intelligence in Medicine</i> , 2022, 129, 102323.	6.5	21
7	Stability evaluation of quartz crystal microbalances coated with polyvinyl acetate nanofibrous mats as butanol vapor sensors. <i>Materials Today Communications</i> , 2021, 26, 101770.	1.9	11
8	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
9	Advances of the top-down synthesis approach for high-performance silicon anodes in Li-ion batteries. <i>Journal of Materials Chemistry A</i> , 2021, 9, 18906-18926.	10.3	52
10	Room-temperature ppb-level trimethylamine gas sensors functionalized with citric acid-doped polyvinyl acetate nanofibrous mats. <i>Materials Advances</i> , 2021, 2, 3705-3714.	5.4	26
11	Nonmechanical parfocal and autofocus features based on wave propagation distribution in lensfree holographic microscopy. <i>Scientific Reports</i> , 2021, 11, 3213.	3.3	5
12	Influence of eccentric nanoindentation on top surface of silicon micropillar arrays. <i>Journal of Physics: Conference Series</i> , 2021, 1837, 012008.	0.4	1
13	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
14	A Compact Calibratable Pulse Oximeter Based on Color Filters: Towards a Quantitative Analysis of Measurement Uncertainty. <i>IEEE Sensors Journal</i> , 2021, 21, 7522-7531.	4.7	6
15	Enhancement of unsteady frequency responses of electro-thermal resonance MEMS cantilever sensors. <i>Journal of Physics: Conference Series</i> , 2021, 1837, 012003.	0.4	0
16	Wafer-scale transfer route for top-down III-nitride nanowire LED arrays based on the femtosecond laser lift-off technique. <i>Microsystems and Nanoengineering</i> , 2021, 7, 32.	7.0	27
17	A Novel Approach for a Chip-Sized Scanning Optical Microscope. <i>Micromachines</i> , 2021, 12, 527.	2.9	1
18	Ultrafine Aerosol Particle Sizer Based on Piezoresistive Microcantilever Resonators with Integrated Air-Flow Channel. <i>Sensors</i> , 2021, 21, 3731.	3.8	8

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19	Pursuing the Diffraction Limit with Nano-LED Scanning Transmission Optical Microscopy. <i>Sensors</i> , 2021, 21, 3305.	3.8	4
20	Performance of an Electrothermal MEMS Cantilever Resonator with Fano-Resonance Annoyance under Cigarette Smoke Exposure. <i>Sensors</i> , 2021, 21, 4088.	3.8	7
21	Time-resolved cathodoluminescence investigations of AlN:Ge/GaN nanowire structures. <i>Nano Express</i> , 2021, 2, 034001.	2.4	3
22	Individually Switchable InGaN/GaN Nano-LED Arrays as Highly Resolved Illumination Engines. <i>Electronics (Switzerland)</i> , 2021, 10, 1829.	3.1	4
23	Electrospun Nanofibers for Quartz Crystal Microbalance Gas Sensors: A Review. <i>ACS Applied Nano Materials</i> , 2021, 4, 9957-9975.	5.0	38
24	Sensitivity prediction and analysis of nanofiber-based gas sensors using solubility and vapor pressure parameters. <i>Japanese Journal of Applied Physics</i> , 2021, 60, 107001.	1.5	7
25	Processing and Characterization of Monolithic Passive-Matrix GaN-Based MicroLED Arrays With Pixel Sizes From 5 to 50 Åµm. <i>IEEE Photonics Journal</i> , 2021, 13, 1-9.	2.0	5
26	Investigation of Electrical Behaviors Observed in Vertical GaN Nanowire Transistors Using Extended Landauer-Büttiker Formula. <i>IEEE Access</i> , 2021, 9, 2913-2923.	4.2	0
27	Vertical 3D gallium nitride field-effect transistors based on fin structures with inverted p-doped channel. <i>Semiconductor Science and Technology</i> , 2021, 36, 014002.	2.0	13
28	Versatilely tuned vertical silicon nanowire arrays by cryogenic reactive ion etching as a lithium-ion battery anode. <i>Scientific Reports</i> , 2021, 11, 19779.	3.3	36
29	Vertically Aligned n-Type Silicon Nanowire Array as a Free-Standing Anode for Lithium-Ion Batteries. <i>Nanomaterials</i> , 2021, 11, 3137.	4.1	21
30	Dynamic and Capacitive Characterization of 3D GaN n-p-n Vertical Fin-FETs. , 2021, , .		0
31	Fabrication of a microcantilever-based aerosol detector with integrated electrostatic on-chip ultrafine particle separation and collection. <i>Journal of Micromechanics and Microengineering</i> , 2020, 30, 014001.	2.6	9
32	Femtosecond Laser Lift-Off with Sub-Bandgap Excitation for Production of Free-Standing GaN Light-Emitting Diode Chips. <i>Advanced Engineering Materials</i> , 2020, 22, 1901192.	3.5	28
33	Directly addressable GaN-based nano-LED arrays: fabrication and electro-optical characterization. <i>Microsystems and Nanoengineering</i> , 2020, 6, 88.	7.0	30
34	Highly stable threshold voltage in GaN nanowire FETs: The advantages of i -p- i -GaN channel/ Al_2O_3 gate insulator. <i>Applied Physics Letters</i> , 2020, 117, .	3.3	15
35	Intelligent Mobile Electronic Nose System Comprising a Hybrid Polymer-Functionalized Quartz Crystal Microbalance Sensor Array. <i>ACS Omega</i> , 2020, 5, 29492-29503.	3.5	46
36	Sonochemical synthesis of magnetic Fe ₃ O ₄ /graphene nanocomposites for label-free electrochemical biosensors. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 15381-15393.	2.2	17

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37	Quartz crystal microbalance humidity sensors integrated with hydrophilic polyethyleneimine-grafted polyacrylonitrile nanofibers. <i>Sensors and Actuators B: Chemical</i> , 2020, 319, 128286.	7.8	54
38	Wearable Carbon Monoxide Sensors Based on Hybrid Graphene/ZnO Nanocomposites. <i>IEEE Access</i> , 2020, 8, 49169-49179.	4.2	41
39	Visible Light-Driven p-Type Semiconductor Gas Sensors Based on CaFe ₂ O ₄ Nanoparticles. <i>Sensors</i> , 2020, 20, 850.	3.8	16
40	In-Plane and Out-of-Plane MEMS Piezoresistive Cantilever Sensors for Nanoparticle Mass Detection. <i>Sensors</i> , 2020, 20, 618.	3.8	19
41	Quartz Crystal Microbalances Functionalized with Citric Acid-Doped Polyvinyl Acetate Nanofibers for Ammonia Sensing. <i>ACS Applied Nano Materials</i> , 2020, 3, 5687-5697.	5.0	45
42	Nano illumination microscopy: a technique based on scanning with an array of individually addressable nanoLEDs. <i>Optics Express</i> , 2020, 28, 19044.	3.4	18
43	Instrumentation for Nano-Illumination Microscopy Based on InGaN/GaN NanoLED Arrays. , 2020, , .		0
44	UV-LED Photo-Activated Room Temperature NO ₂ Sensors Based on Nanostructured ZnO/AlN Thin Films. <i>Proceedings (mdpi)</i> , 2019, 2, .	0.2	3
45	Top-down GaN nanowire transistors with nearly zero gate hysteresis for parallel vertical electronics. <i>Scientific Reports</i> , 2019, 9, 10301.	3.3	32
46	Micro Light Plates for Photoactivated Micro-Power Gas Sensors. <i>Proceedings (mdpi)</i> , 2019, 14, 8.	0.2	0
47	Enhancement of real-time resonance tracking in electrothermally actuated cantilever sensor with optimized phase characteristic. <i>Journal of Physics: Conference Series</i> , 2019, 1319, 012003.	0.4	0
48	Self-reading femtogram microbalance for highly sensitive airborne nanoparticle detection. <i>Journal of Physics: Conference Series</i> , 2019, 1319, 012004.	0.4	1
49	Indentation modulus and hardness investigation of crystalline silicon surfaces treated by inductively coupled plasma reactive ion etching. <i>Journal of Physics: Conference Series</i> , 2019, 1319, 012008.	0.4	1
50	Adsorption and detection of microparticles using silicon microcantilevers. <i>Journal of Physics: Conference Series</i> , 2019, 1319, 012010.	0.4	1
51	Design and fabrication of AlN-on-Si chirped surface acoustic wave resonators for label-free cell detection. <i>Journal of Physics: Conference Series</i> , 2019, 1319, 012011.	0.4	3
52	Nano-structured transmissive spectral filter matrix based on guided-mode resonances. <i>Journal of the European Optical Society-Rapid Publications</i> , 2019, 15, .	1.9	6
53	Improvement of frequency responses of an in-plane electro-thermal cantilever sensor for real-time measurement. <i>Journal of Micromechanics and Microengineering</i> , 2019, 29, 124006.	2.6	9
54	A highly sensitive safrole sensor based on polyvinyl acetate (PVAc) nanofiber-coated QCM. <i>Scientific Reports</i> , 2019, 9, 15407.	3.3	41

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55	Ultra Low Power Mass-Produced Gas Sensor Based on Efficient Self-Heated GaN Nanorods. , 2019, , .		2
56	Evaluations of heat treatment on polymer adhesive bonding and thermal-induced failure of two-layer through-silicon via structures. Sensors and Actuators A: Physical, 2019, 285, 685-699.	4.1	2
57	A Light-Activated Micropower Gas Sensor for the Detection of NO ₂ Down to the Parts Per Billion Range. , 2019, , .		0
58	A Microwatt Gas Sensor for No ₂ Detection in the Parts Per Billion Range. , 2019, , .		1
59	Efficient Self-Heating in Gallium Nitride Nanopillars for Ultra-Low-Power Mass-Produced Gas Sensors. , 2019, , .		0
60	Real-Time Frequency Tracking of an Electro-Thermal Piezoresistive Cantilever Resonator with ZnO Nanorods for Chemical Sensing. Chemosensors, 2019, 7, 2.	3.6	19
61	Vertical GaN Nanowires and Nanoscale Light-Emitting-Diode Arrays for Lighting and Sensing Applications. ACS Applied Nano Materials, 2019, 2, 4133-4142.	5.0	44
62	Cantilever Sensors. Sensors, 2019, 19, 2043.	3.8	5
63	Continuous Live-Cell Culture Imaging and Single-Cell Tracking by Computational Lensfree LED Microscopy. Sensors, 2019, 19, 1234.	3.8	16
64	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
65	Piezoresistive microcantilevers for humidity sensing. Journal of Micromechanics and Microengineering, 2019, 29, 053003.	2.6	60
66	Piezoelectric MEMS Resonators for Cigarette Particle Detection. Micromachines, 2019, 10, 145.	2.9	25
67	3D GaN nanoarchitecture for field-effect transistors. Micro and Nano Engineering, 2019, 3, 59-81.	2.9	32
68	Strategy toward Miniaturized, Self-out-Readable Resonant Cantilever and Integrated Electrostatic Microchannel Separator for Highly Sensitive Airborne Nanoparticle Detection. Sensors, 2019, 19, 901.	3.8	11
69	Micro light plates for low-power photoactivated (gas) sensors. Applied Physics Letters, 2019, 114, .	3.3	42
70	A Parts Per Billion (ppb) Sensor for NO ₂ with Microwatt ($\frac{1}{4}$ W) Power Requirements Based on Micro Light Plates. ACS Sensors, 2019, 4, 822-826.	7.8	85
71	Beyond solid-state lighting: Miniaturization, hybrid integration, and applications of GaN nano- and micro-LEDs. Applied Physics Reviews, 2019, 6, .	11.3	194
72	Silicon Nanopillars with ZNO Nanorods by Nanosphere Lithography on a Piezoresistive Microcantilever. , 2019, , .		2

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73	Fabrication of SiO ₂ microcantilever arrays for mechanical loss measurements. Materials Research Express, 2019, 6, 045206.	1.6	1
74	Method for non-invasive hemoglobin oxygen saturation measurement using broadband light source and color filters. , 2019, , .		2
75	Towards a super-resolution structured illumination microscope based on an array of nanoLEDs. , 2019, , .		2
76	Phase optimization of thermally actuated piezoresistive resonant MEMS cantilever sensors. Journal of Sensors and Sensor Systems, 2019, 8, 37-48.	0.9	8
77	Performance analysis and simulation of vertical gallium nitride nanowire transistors. Solid-State Electronics, 2018, 144, 73-77.	1.4	13
78	Self-diffusion in single crystalline silicon nanowires. Journal of Applied Physics, 2018, 123, 161515.	2.5	7
79	Top-Down Fabrication of Arrays of Vertical GaN Nanorods with Freestanding Top Contacts for Environmental Exposure. Proceedings (mdpi), 2018, 2, .	0.2	1
80	Design of Miniaturized, Self-Out-Readable Cantilever Resonator for Highly Sensitive Airborne Nanoparticle Detection. Proceedings (mdpi), 2018, 2, .	0.2	0
81	Pixel-Wise Multispectral Sensing System Using Nanostructured Filter Matrix for Biomedical Applications. Proceedings (mdpi), 2018, 2, 880.	0.2	1
82	Preparation and Integration of a Multi-Wavelength LED Matrix for Testing Light Cell Interaction in a Novel Lens Less Optical Microscope. Proceedings (mdpi), 2018, 2, 1074.	0.2	2
83	Structural Modifications in Free-Standing InGaN/GaN LEDs after Femtosecond Laser Lift-Off. Proceedings (mdpi), 2018, 2, .	0.2	3
84	Visible Light Activated Room Temperature Gas Sensors Based on CaFe ₂ O ₄ Nanopowders. Proceedings (mdpi), 2018, 2, 834.	0.2	3
85	InGaN/GaN nanoLED Arrays as a Novel Illumination Source for Biomedical Imaging and Sensing Applications. Proceedings (mdpi), 2018, 2, .	0.2	8
86	An LED Platform for Micropower Gas Sensors. Proceedings (mdpi), 2018, 2, .	0.2	1
87	Area-Selective Growth of Aligned ZnO Nanorod Arrays for MEMS Device Applications. Proceedings (mdpi), 2018, 2, .	0.2	11
88	Continuous Live-Cell Culture Monitoring by Compact Lensless LED Microscopes. Proceedings (mdpi), 2018, 2, .	0.2	3
89	Pinhole microLED Array as Point Source Illumination for Miniaturized Lensless Cell Monitoring Systems. Proceedings (mdpi), 2018, 2, .	0.2	3
90	Transferable Substrateless GaN LED Chips Produced by Femtosecond Laser Lift-Off for Flexible Sensor Applications. Proceedings (mdpi), 2018, 2, 891.	0.2	3

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91	Nanoindentation of crystalline silicon pillars fabricated by soft UV nanoimprint lithography and cryogenic deep reactive ion etching. <i>Sensors and Actuators A: Physical</i> , 2018, 283, 65-78.	4.1	27
92	Thermal performance analysis of GaN nanowire and fin-shaped power transistors based on self-consistent electrothermal simulations. <i>Microelectronics Reliability</i> , 2018, 91, 227-231.	1.7	2
93	Human exposure to airborne particles during wood processing. <i>Atmospheric Environment</i> , 2018, 193, 101-108.	4.1	10
94	Large area contact resonance spectroscopy mapping system for on-the-machine measurements. , 2018, , .		1
95	Nanofabrication of SOI-Based Photonic Waveguide Resonators for Gravimetric Molecule Detection. <i>Proceedings (mdpi)</i> , 2018, 2, 1055.	0.2	0
96	Traceable Nanomechanical Metrology of GaN Micropillar Array. <i>Advanced Engineering Materials</i> , 2018, 20, 1800353.	3.5	11
97	Normally Off Vertical 3-D GaN Nanowire MOSFETs With Inverted $\text{p}^+\text{-GaN}$ Channel. <i>IEEE Transactions on Electron Devices</i> , 2018, 65, 2439-2445.	3.0	32
98	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
99	Contact resonance spectroscopy for on-the-machine manufactory monitoring. <i>Sensors and Actuators A: Physical</i> , 2018, 279, 501-508.	4.1	11
100	GaN nanowire arrays with nonpolar sidewalls for vertically integrated field-effect transistors. <i>Nanotechnology</i> , 2017, 28, 095206.	2.6	58
101	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
102	Gold-modified indium tin oxide as a transparent window in optoelectronic diagnostics of electrochemically active biofilms. <i>Biosensors and Bioelectronics</i> , 2017, 94, 74-80.	10.1	24
103	Analysis of asymmetric resonance response of thermally excited silicon micro-cantilevers for mass-sensitive nanoparticle detection. <i>Journal of Micromechanics and Microengineering</i> , 2017, 27, 064001.	2.6	33
104	Towards fabrication of 3D isotopically modulated vertical silicon nanowires in selective areas by nanosphere lithography. <i>Microelectronic Engineering</i> , 2017, 179, 74-82.	2.4	32
105	Study of 3D-growth conditions for selective area MOVPE of high aspect ratio GaN fins with non-polar vertical sidewalls. <i>Journal of Crystal Growth</i> , 2017, 476, 90-98.	1.5	17
106	Large-area fabrication of silicon nanostructures by templated nanoparticle arrays. , 2017, , .		0
107	Size-selective electrostatic sampling and removal of nanoparticles on silicon cantilever sensors for air-quality monitoring. , 2017, , .		10
108	Piezo Resistive Read-Out Contact Resonance Spectroscopy for Material and Layer Analysis at High-Aspect-Ratio Geometries. <i>Proceedings (mdpi)</i> , 2017, 1, .	0.2	0

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109	Nanomechanical Traceable Metrology of Vertically Aligned Silicon and Germanium Nanowires by Nanoindentation. Proceedings (mdpi), 2017, 1, 375.	0.2	3
110	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
111	Vertical 3D GaN Nanoarchitectures towards an Integrated Optoelectronic Biosensing Platform in Microbial Fuel Cells. Proceedings (mdpi), 2017, 1, .	0.2	1
112	LED-Based Tomographic Imaging for Live-Cell Monitoring of Pancreatic Islets in Microfluidic Channels. Proceedings (mdpi), 2017, 1, .	0.2	7
113	Gravimetric humidity sensor based on ZnO nanorods covered piezoresistive Si microcantilever. , 2017, , .		6
114	Asymmetric resonance response analysis of a thermally excited silicon microcantilever for mass-sensitive nanoparticle detection. Proceedings of SPIE, 2017, , .	0.8	1
115	Transferable micromachined piezoresistive force sensor with integrated double-meander-spring system. Journal of Sensors and Sensor Systems, 2017, 6, 121-133.	0.9	16
116	Asymmetric resonance frequency analysis of in-plane electrothermal silicon cantilevers for nanoparticle sensors. Journal of Physics: Conference Series, 2016, 757, 012006.	0.4	3
117	Double-meander spring silicon piezoresistive sensors as microforce calibration standards. Optical Engineering, 2016, 55, 091409.	1.0	8
118	Direct-reading Resonant Silicon Cantilever for Probing of Surface Deposits. Procedia Engineering, 2016, 168, 658-661.	1.2	1
119	Vertical architecture for enhancement mode power transistors based on GaN nanowires. Applied Physics Letters, 2016, 108, .	3.3	55
120	Piezoresistive Silicon Cantilever Covered by ZnO Nanorods for Humidity Sensing. Procedia Engineering, 2016, 168, 1114-1117.	1.2	18
121	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
122	Integrated Strategy toward Self-Powering and Selectivity Tuning of Semiconductor Gas Sensors. ACS Sensors, 2016, 1, 1256-1264.	7.8	28
123	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
124	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
125	High Aspect Ratio GaN Fin Microstructures with Nonpolar Sidewalls by Continuous Mode Metalorganic Vapor Phase Epitaxy. Crystal Growth and Design, 2016, 16, 1458-1462.	3.0	30
126	Enhanced performance of pocket-sized nanoparticle exposure monitor for healthy indoor environment. Building and Environment, 2016, 95, 13-20.	6.9	25

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127	Microtactile Cantilever Resonators for Characterizing Surface Deposits. <i>Procedia Engineering</i> , 2015, 120, 861-864.	1.2	3
128	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
129	Ultra-high-speed cantilever tactile probe for high-aspect-ratio micro metrology. , 2015, , .		5
130	Development of silicon microforce sensors integrated with double meander springs for standard hardness test instruments. , 2015, , .		2
131	Electrothermal piezoresistive cantilever resonators for personal measurements of nanoparticles in workplace exposure. <i>Proceedings of SPIE</i> , 2015, , .	0.8	3
132	Handheld personal airborne nanoparticle detector based on microelectromechanical silicon resonant cantilever. <i>Microelectronic Engineering</i> , 2015, 145, 96-103.	2.4	59
133	Fabrication of wear-resistant silicon microprobe tips for high-speed surface roughness scanning devices. <i>Proceedings of SPIE</i> , 2015, , .	0.8	2
134	Low-cost wearable cantilever-based nanoparticle sensor microsystem for personal health and safety monitoring. , 2015, , .		2
135	Partially integrated cantilever-based airborne nanoparticle detector for continuous carbon aerosol mass concentration monitoring. <i>Journal of Sensors and Sensor Systems</i> , 2015, 4, 111-123.	0.9	22
136	Ontology Development of Semantic E-Learning for Final Project Course. <i>Advanced Science Letters</i> , 2015, 21, 46-51.	0.2	1
137	Vertical silicon nanowire array-patterned microcantilever resonators for enhanced detection of cigarette smoke aerosols. <i>Micro and Nano Letters</i> , 2014, 9, 676-679.	1.3	26
138	Growth kinetics and mass transport mechanisms of GaN columns by selective area metal organic vapor phase epitaxy. <i>Journal of Applied Physics</i> , 2014, 115, .	2.5	44
139	Highly Selective SAM-Nanowire Hybrid NO ₂ Sensor: Insight into Charge Transfer Dynamics and Alignment of Frontier Molecular Orbitals. <i>Advanced Functional Materials</i> , 2014, 24, 595-602.	14.9	71
140	Production of vertical nanowire resonators by cryogenic-ICP-DRIE. <i>Microsystem Technologies</i> , 2014, 20, 759-767.	2.0	31
141	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
142	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
143	A Highly Selective and Self-Powered Gas Sensor Via Organic Surface Functionalization of p-Si/n-ZnO Diodes. <i>Advanced Materials</i> , 2014, 26, 8017-8022.	21.0	103
144	In-plane-excited silicon nanowire arrays-patterned cantilever sensors for enhanced airborne particulate matter exposure detection. , 2014, , .		0

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145	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
146	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
147	Silicon Nanowire Resonators: Aerosol Nanoparticle Mass Sensing in the Workplace. IEEE Nanotechnology Magazine, 2013, 7, 18-23.	1.3	18
148	Silicon nanowire resonators for aerosol nanoparticle mass sensing. , 2013, , .		0
149	Silicon resonant nanopillar sensors for airborne titanium dioxide engineered nanoparticle mass detection. Sensors and Actuators B: Chemical, 2013, 189, 146-156.	7.8	63
150	Portable cantilever-based airborne nanoparticle detector. Sensors and Actuators B: Chemical, 2013, 187, 118-127.	7.8	50
151	Airborne engineered nanoparticle mass sensor based on a silicon resonant cantilever. Sensors and Actuators B: Chemical, 2013, 180, 77-89.	7.8	136
152	Evaluation of photoresist-based nanoparticle removal method for recycling silicon cantilever mass sensors. Sensors and Actuators A: Physical, 2013, 202, 90-99.	4.1	30
153	Simulation and characterization of silicon nanopillar-based nanoparticle sensors. , 2013, , .		1
154	Femtogram aerosol nanoparticle mass sensing utilising vertical silicon nanowire resonators. Micro and Nano Letters, 2013, 8, 554-558.	1.3	38
155	MEMS-based silicon cantilevers with integrated electrothermal heaters for airborne ultrafine particle sensing. Proceedings of SPIE, 2013, , .	0.8	4
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	GaN based nanorods for solid state lighting. Journal of Applied Physics, 2012, 111, .	2.5	463
159	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
160	Femtogram Mass Measurement of Airborne Engineered Nanoparticles using Silicon Nanopillar Resonators. Procedia Engineering, 2012, 47, 289-292.	1.2	5
161	Cleaning of structured templates from nanoparticle accumulation using silicone. Microsystem Technologies, 2012, 18, 835-842.	2.0	4
162	Determination of exposure to engineered carbon nanoparticles using a self-sensing piezoresistive silicon cantilever sensor. Microsystem Technologies, 2012, 18, 905-915.	2.0	9

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163	Cleaning of nanopillar templates for nanoparticle collection using PDMS. , 2011, , .		0
164	Use of self-sensing piezoresistive Si cantilever sensor for determining carbon nanoparticle mass. , 2011, , .		4
165	Characterization of particle emission from household electrical appliances. Science of the Total Environment, 2011, 409, 2534-2540.	8.0	47
166	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
167	Thermal characterization of vertical silicon nanowires. Journal of Materials Research, 2011, 26, 1958-1962.	2.6	17
168	Self-exciting and self-sensing resonant cantilever sensors for improved monitoring of airborne nanoparticles exposure. , 2011, , .		1
169	A resonant cantilever sensor for monitoring airborne nanoparticles. , 2011, , .		9
170	Enhanced airborne nanoparticles mass sensing using a high-mode resonant silicon cantilever sensor. , 2011, , .		2
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