

# Meyya Meyyappan

## List of Publications by Year in descending order

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414  
papers

24,665  
citations

8181

76  
h-index

9861

141  
g-index

420  
all docs

420  
docs citations

420  
times ranked

23792  
citing authors

#	ARTICLE	IF	CITATIONS
1	(Invited, Digital Presentation) Development of Multiplex Electrode Array Sensors for Proteases Activity Profiling Toward Cancer Diagnosis. ECS Meeting Abstracts, 2022, MA2022-01, 2201-2201.	0.0	0
2	Printable Gel Polymer Electrolytes for Solid-State Printed Supercapacitors. Materials, 2021, 14, 316.	2.9	8
3	A nanoscale vacuum field emission gated diode with an umbrella cathode. Nanoscale Advances, 2021, 3, 1725-1729.	4.6	12
4	Methodologies for Fabricating Flexible Supercapacitors. Micromachines, 2021, 12, 163.	2.9	14
5	Surround Gate Transistor With Epitaxially Grown Si Pillar and Simulation Study on Soft Error and Rowhammer Tolerance for DRAM. IEEE Transactions on Electron Devices, 2021, 68, 529-534.	3.0	4
6	Single Event Hard Error due to Terrestrial Radiation. , 2021, , .		4
7	pH Modeling to Predict SWCNTâ€™COOH Gas Sensor Response to Multiple Target Gases. Journal of Physical Chemistry C, 2021, 125, 9356-9363.	3.1	6
8	Machine Learning Approach for Prediction of Point Defect Effect in FinFET. IEEE Transactions on Device and Materials Reliability, 2021, 21, 252-257.	2.0	8
9	Total ionizing dose effects on nanosheet and nanowire field effect transistors. Microelectronics Reliability, 2021, 121, 114145.	1.7	3
10	Effect of 150 MeV protons on carbon nanotubes for fabrication of a radiation detector. Nanotechnology, 2021, 32, 355501.	2.6	1
11	Quantitative Detection of Cathepsin B Activity in Neutral pH Buffers Using Gold Microelectrode Arrays: Toward Direct Multiplex Analyses of Extracellular Proteases in Human Serum. ACS Sensors, 2021, 6, 3621-3631.	7.8	5
12	Complementary Vacuum Field Emission Transistor. IEEE Transactions on Electron Devices, 2021, 68, 5244-5249.	3.0	5
13	Trends in Carbon, Oxygen, and Nitrogen Core in the X-ray Absorption Spectroscopy of Carbon Nanomaterials: A Guide for the Perplexed. Journal of Physical Chemistry C, 2021, 125, 973-988.	3.1	30
14	Integrating Carbon Nanomaterials with Metals for Bio-sensing Applications. Molecular Neurobiology, 2020, 57, 179-190.	4.0	21
15	Maleic anhydride-functionalized graphene nanofillers render epoxy coatings highly resistant to corrosion and microbial attack. Carbon, 2020, 159, 586-597.	10.3	44
16	Output density quantification of electricity generation by flowing deionized water on graphene. Applied Physics Letters, 2020, 117, .	3.3	8
17	Atmospheric Pressure Plasma Printing of Nanomaterials for <i>IoT</i> Applications. IEEE Open Journal of Nanotechnology, 2020, 1, 47-56.	2.0	12
18	Hexagonal Boron Nitride for Sulfur Corrosion Inhibition. ACS Nano, 2020, 14, 14809-14819.	14.6	56

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19	The Impact of a Single Displacement Defect on Tunneling Field-Effect Transistors. IEEE Transactions on Electron Devices, 2020, 67, 4765-4769.	3.0	8
20	Printing of a Passivation Layer for the Protection of Printed Supercapacitors. ACS Applied Electronic Materials, 2020, 2, 3643-3649.	4.3	2
21	Electrical and Data-Retention Characteristics of Two-Terminal Thyristor Random Access Memory. IEEE Open Journal of Nanotechnology, 2020, 1, 163-169.	2.0	2
22	Nanoscale Complementary Vacuum Field Emission Transistor. ACS Applied Nano Materials, 2020, 3, 11481-11488.	5.0	20
23	Thermal conductivity reduction by scallop shaped surface modulation in silicon nanowires. Applied Physics Letters, 2020, 116, .	3.3	5
24	Simultaneous, multiplex quantification of protease activities using a gold microelectrode array. Biosensors and Bioelectronics, 2020, 165, 112330.	10.1	10
25	All 3D-Printed Flexible ZnO UV Photodetector on an Ultraflat Substrate. ACS Sensors, 2020, 5, 1028-1032.	7.8	34
26	Carbon Nanotube-Based Flexible UV Sensor on Various Substrates. IEEE Sensors Journal, 2020, 20, 8429-8436.	4.7	6
27	Electrochemical Sensors in Space Missions. Electrochemical Society Interface, 2020, 29, 53-57.	0.4	1
28	High-Voltage Drain-Extended FinFET With a High- $\epsilon$ Dielectric Field Plate. IEEE Transactions on Electron Devices, 2020, 67, 1077-1084.	3.0	7
29	On-Demand Printing of Wearable Thermotherapy Pad. Advanced Healthcare Materials, 2020, 9, e1901575.	7.6	21
30	Solar Cell Using Hourglass-Shaped Silicon Nanowires for Increased Light-Trapping Path. IEEE Journal of Photovoltaics, 2020, 10, 475-479.	2.5	13
31	Transformable Junctionless Transistor (T-JLT). IEEE Transactions on Electron Devices, 2020, 67, 2639-2644.	3.0	1
32	All-Printed In-Plane Supercapacitors by Sequential Additive Manufacturing Process. ACS Applied Energy Materials, 2020, 3, 4965-4973.	5.1	32
33	Buffer solution optimization for accurate fluoride ion detection in tap water. Journal of Electroanalytical Chemistry, 2020, 858, 113837.	3.8	10
34	Enhanced thermoelectric properties of cobalt silicide-silicon heterostructured nanowires. IEEE Nanotechnology Magazine, 2020, , 1-1.	2.0	2
35	Rapid prototyping of microwave metasurfaces by ink-jet printing on polyester (PET) transparencies. Flexible and Printed Electronics, 2020, 5, 045003.	2.7	3
36	Corrections to "Solar Cell Using Hourglass-Shaped Silicon Nanowires for Increased Light-Trapping Path" [Mar 20 475-479]. IEEE Journal of Photovoltaics, 2020, 10, 1508-1508.	2.5	0

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37	Array of chemiresistors for single input multiple output (SIMO) variation-tolerant all printed gas sensor. <i>Sensors and Actuators B: Chemical</i> , 2019, 299, 126971.	7.8	0
38	Weakly Tapered Silicon Nanopillar Resonators with Spatially Well-Separated Whispering Gallery Modes for Si-Based Lasers. <i>ACS Applied Nano Materials</i> , 2019, 2, 4852-4858.	5.0	4
39	Annealing effect on UV-illuminated recovery in gas response of graphene-based NO <sub>2</sub> sensors. <i>RSC Advances</i> , 2019, 9, 23343-23351.	3.6	30
40	Electrically-generated memristor based on inkjet printed silver nanoparticles. <i>Nanoscale Advances</i> , 2019, 1, 2990-2998.	4.6	22
41	Whispering gallery modes enhance the near-infrared photoresponse of hourglass-shaped silicon nanowire photodiodes. <i>Nature Electronics</i> , 2019, 2, 572-579.	26.0	28
42	Nanoscale vacuum channel transistors fabricated on silicon carbide wafers. <i>Nature Electronics</i> , 2019, 2, 405-411.	26.0	73
43	Carboxylated Single-Walled Carbon Nanotube Sensors with Varying pH for the Detection of Ammonia and Carbon Dioxide Using an Artificial Neural Network. <i>ACS Applied Nano Materials</i> , 2019, 2, 6445-6451.	5.0	20
44	Building Brain-Inspired Logic Circuits from Dynamically Switchable Transition-Metal Oxides. <i>Trends in Chemistry</i> , 2019, 1, 711-726.	8.5	39
45	Physically Unclonable Function by an All-Printed Carbon Nanotube Network. <i>ACS Applied Electronic Materials</i> , 2019, 1, 1162-1168.	4.3	22
46	Caution: Abnormal Variability Due to Terrestrial Cosmic Rays in Scaled-Down FinFETs. <i>IEEE Transactions on Electron Devices</i> , 2019, 66, 1887-1891.	3.0	17
47	Carbon Nanotube Based <sup>13</sup> C Ray Detector. <i>ACS Sensors</i> , 2019, 4, 1097-1102.	7.8	7
48	Plasma jet based <i>in situ</i> reduction of copper oxide in direct write printing. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2019, 37, .	1.2	14
49	Electrochemical Activity Assay for Protease Analysis Using Carbon Nanofiber Nanoelectrode Arrays. <i>Analytical Chemistry</i> , 2019, 91, 3971-3979.	6.5	25
50	Soft Error in Saddle Fin Based DRAM. <i>IEEE Electron Device Letters</i> , 2019, 40, 494-497.	3.9	11
51	Interface Engineering to Enhance the Photoresponse of Core-Shell Structure Silicon Nanowire Photodetectors. , 2019, , .		1
52	Thermal Conductivity of Rough Silicon Nanowires with Silicide Layer. , 2019, , .		1
53	Design Guidelines for High Sensitivity ZnO Nanowire Gas Sensors With Schottky Contact. <i>IEEE Sensors Journal</i> , 2019, 19, 976-981.	4.7	10
54	Effects of nitrogen-dopant bonding states on liquid-flow-induced electricity generation of graphene: A comparative study. <i>Results in Physics</i> , 2019, 12, 1291-1293.	4.1	4

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55	Vertical Silicon Nanowire Thermoelectric Modules with Enhanced Thermoelectric Properties. Nano Letters, 2019, 19, 747-755.	9.1	40
56	LaF3 electrolyte-insulator-semiconductor sensor for detecting fluoride ions. Sensors and Actuators B: Chemical, 2019, 279, 183-188.	7.8	28
57	Nitrogen doping effect on flow-induced voltage generation from graphene-water interface. Applied Physics Letters, 2018, 112, .	3.3	16
58	Hexagonal Boron Nitride: The Thinnest Insulating Barrier to Microbial Corrosion. ACS Nano, 2018, 12, 2242-2252.	14.6	71
59	Reduction of Variability in Junctionless and Inversion-Mode FinFETs by Stringer Gate Structure. IEEE Transactions on Electron Devices, 2018, 65, 470-475.	3.0	14
60	All-printed triboelectric nanogenerator. Nano Energy, 2018, 44, 82-88.	16.0	97
61	Wearable UV Sensor Based on Carbon Nanotube-Coated Cotton Thread. ACS Applied Materials & Interfaces, 2018, 10, 40198-40202.	8.0	49
62	Single-Event Transient in FinFETs and Nanosheet FETs. IEEE Electron Device Letters, 2018, 39, 1840-1843.	3.9	38
63	A Single Input Multiple Output (SIMO) Variation-Tolerant Nanosensor. ACS Sensors, 2018, 3, 1782-1788.	7.8	8
64	Plasma Jet Printing and <i>in Situ</i> Reduction of Highly Acidic Graphene Oxide. ACS Nano, 2018, 12, 5473-5481.	14.6	34
65	All 3D printed energy harvester for autonomous and sustainable resource utilization. Nano Energy, 2018, 52, 271-278.	16.0	40
66	Role of Doped Nitrogen in Graphene for Flow-Induced Power Generation. Advanced Engineering Materials, 2018, 20, 1800387.	3.5	16
67	Simulation of Graphene Field-Effect Transistor Biosensors for Bacterial Detection. Sensors, 2018, 18, 1715.	3.8	25
68	Leaky Integrate-and-Fire Biristor Neuron. IEEE Electron Device Letters, 2018, 39, 1457-1460.	3.9	55
69	Buffer effects of two functional groups against pH variation at aminosilanized Electrolyte-Oxide-Semiconductor (EOS) capacitor. Sensors and Actuators B: Chemical, 2017, 242, 324-331.	7.8	2
70	Optimization of Signal to Noise Ratio in Silicon Nanowire ISFET Sensors. IEEE Sensors Journal, 2017, 17, 2792-2796.	4.7	13
71	Application-Specific Catalyst Layers: Pt-Containing Carbon Nanofibers for Hydrogen Peroxide Detection. ACS Omega, 2017, 2, 496-507.	3.5	21
72	Chitosan-Covered Pd@Pt Core-Shell Nanocubes for Direct Electron Transfer in Electrochemical Enzymatic Glucose Biosensor. ACS Omega, 2017, 2, 1896-1904.	3.5	59

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73	Monolithically Integrated Microheater for On-Chip Annealing of Oxide Defects. IEEE Electron Device Letters, 2017, 38, 831-834.	3.9	16
74	Nanoscale Vacuum Channel Transistor. Nano Letters, 2017, 17, 2146-2151.	9.1	139
75	Hysteretic behavior of contact force response in triboelectric nanogenerator. Nano Energy, 2017, 32, 408-413.	16.0	47
76	Single Walled Carbon Nanotube Based Air Pocket Encapsulated Ultraviolet Sensor. ACS Sensors, 2017, 2, 1679-1683.	7.8	26
77	Flexible Graphene-Based Wearable Gas and Chemical Sensors. ACS Applied Materials & Interfaces, 2017, 9, 34544-34586.	8.0	603
78	Efficacy of atmospheric pressure dielectric barrier discharge for inactivating airborne pathogens. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2017, 35, 041101.	2.1	6
79	Graphene Field-Effect Transistors for the Sensitive and Selective Detection of <i>Escherichia coli</i> Using Pyrene-Tagged DNA Aptamer. Advanced Healthcare Materials, 2017, 6, 1700736.	7.6	84
80	Synthesis of gold nanoparticles supported on functionalized nanosilica using deep eutectic solvent for an electrochemical enzymatic glucose biosensor. Journal of Materials Chemistry B, 2017, 5, 7072-7081.	5.8	30
81	Work function consideration in vacuum field emission transistor design. Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics, 2017, 35, 062203.	1.2	7
82	Enhanced acetone sensing properties of monolayer graphene at room temperature by electrode spacing effect and UV illumination. Sensors and Actuators B: Chemical, 2017, 253, 77-84.	7.8	36
83	Triboelectric nanogenerator for Mars environment. Nano Energy, 2017, 39, 238-244.	16.0	49
84	Doping effects of surface functionalization on graphene with aromatic molecule and organic solvents. Applied Surface Science, 2017, 425, 713-721.	6.1	70
85	On-the-fly dopant redistribution in a silicon nanowire p-n junction. Nano Research, 2017, 10, 2845-2855.	10.4	5
86	Electrical Characteristics of Doped Silicon Nanowire Channel Field-Effect Transistor Biosensors. IEEE Sensors Journal, 2017, 17, 667-673.	4.7	13
87	Graphene Growth by Plasma-Enhanced Chemical Vapor Deposition (PECVD)., 2017, , 231-243.		1
88	Polysilicon near-infrared photodetector with performance comparable to crystalline silicon devices. Optics Express, 2017, 25, 32910.	3.4	5
89	A Sensor Array for the Detection and Discrimination of Methane and Other Environmental Pollutant Gases. Sensors, 2016, 16, 1163.	3.8	48
90	Design guidelines for nanoscale vacuum field emission transistors. Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics, 2016, 34, .	1.2	24

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91	Plasma jet printing for flexible substrates. Applied Physics Letters, 2016, 108, .	3.3	58
92	Foldable and Disposable Memory on Paper. Scientific Reports, 2016, 6, 38389.	3.3	43
93	Sustainable electronics for nano-spacecraft in deep space missions. , 2016, , .		19
94	Surface analysis and electrochemistry of a robust carbon-nanofiber-based electrode platform H <sub>2</sub> O <sub>2</sub> sensor. Applied Surface Science, 2016, 384, 251-257.	6.1	24
95	Multiplexed electrochemical immunosensor for label-free detection of cardiac markers using a carbon nanofiber array chip. Journal of Electroanalytical Chemistry, 2016, 773, 53-62.	3.8	35
96	Comparative Study of Field Effect Transistor Based Biosensors. IEEE Nanotechnology Magazine, 2016, 15, 956-961.	2.0	28
97	Electrochemical Characterization of Vertically Aligned Carbon Nanofiber Arrays Prepared by Hole-mask Colloidal Lithography. Electroanalysis, 2016, 28, 3039-3047.	2.9	5
98	Silicon-Based BioFETs with 3-D Nanostructure: Easy integration, precise control of nanostructure, and a low device-to-device variation. IEEE Nanotechnology Magazine, 2016, 10, 21-29.	1.3	0
99	Stringer Gate FinFET on Bulk Substrate. IEEE Transactions on Electron Devices, 2016, 63, 3432-3438.	3.0	10
100	What Does Nitric Acid Really Do to Carbon Nanofibers?. Journal of Physical Chemistry C, 2016, 120, 22655-22662.	3.1	19
101	System On Microheater for On-Chip Annealing of Defects Generated by Hot-Carrier Injection, Bias Temperature Instability, and Ionizing Radiation. IEEE Electron Device Letters, 2016, 37, 1543-1546.	3.9	22
102	Carbon nanofiber electrode array for the detection of lead. Electrochemistry Communications, 2016, 73, 89-93.	4.7	21
103	Bonding state and defects of nitrogen-doped graphene in oxygen reduction reaction. Chemical Physics Letters, 2016, 665, 117-120.	2.6	26
104	Carbon Nanotube-Based Chemical Sensors. Small, 2016, 12, 2118-2129.	10.0	155
105	Correlation between sp <sup>3</sup> -to-sp <sup>2</sup> Ratio and Surface Oxygen Functionalities in Tetrahedral Amorphous Carbon (ta-C) Thin Film Electrodes and Implications of Their Electrochemical Properties. Journal of Physical Chemistry C, 2016, 120, 8298-8304.	3.1	43
106	A Built-In Temperature Sensor in an Integrated Microheater. IEEE Sensors Journal, 2016, 16, 5543-5547.	4.7	9
107	The role of extra carbon source during the pre-annealing stage in the growth of carbon nanofibers. Carbon, 2016, 100, 351-354.	10.3	9
108	Chitosan supported silver nanowires as a platform for direct electrochemistry and highly sensitive electrochemical glucose biosensing. RSC Advances, 2016, 6, 20102-20108.	3.6	44

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109	Highly sensitive photodetectors using ZnTe/ZnO core/shell nanowire field effect transistors with a tunable core/shell ratio. <i>Journal of Materials Chemistry C</i> , 2016, 4, 2040-2046.	5.5	17
110	Toward the Responsible Development and Commercialization of Sensor Nanotechnologies. <i>ACS Sensors</i> , 2016, 1, 207-216.	7.8	52
111	Surface functionalized halloysite nanotubes decorated with silver nanoparticles for enzyme immobilization and biosensing. <i>Journal of Materials Chemistry B</i> , 2016, 4, 2553-2560.	5.8	99
112	Structural morphology of carbon nanofibers grown on different substrates. <i>Carbon</i> , 2016, 98, 343-351.	10.3	25
113	Silicon nanowire biosensors for detection of cardiac troponin I (cTnI) with high sensitivity. <i>Biosensors and Bioelectronics</i> , 2016, 77, 695-701.	10.1	167
114	Nanoelectronics and nanosensors for space exploration. <i>MRS Bulletin</i> , 2015, 40, 822-828.	3.5	24
115	Floating Oscillator-Embedded Triboelectric Generator for Versatile Mechanical Energy Harvesting. <i>Scientific Reports</i> , 2015, 5, 16409.	3.3	31
116	Nano biosensors for neurochemical monitoring. <i>Nano Convergence</i> , 2015, 2, .	12.1	33
117	High efficiency silicon solar cell based on asymmetric nanowire. <i>Scientific Reports</i> , 2015, 5, 11646.	3.3	54
118	Integrated Carbon Nanostructures for Detection of Neurotransmitters. <i>Molecular Neurobiology</i> , 2015, 52, 859-866.	4.0	37
119	Chemical Gated Field Effect Transistor by Hybrid Integration of One-Dimensional Silicon Nanowire and Two-Dimensional Tin Oxide Thin Film for Low Power Gas Sensor. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 21263-21269.	8.0	46
120	Carbon Nanotube Synthesis Using Coal Pyrolysis. <i>Langmuir</i> , 2015, 31, 9464-9472.	3.5	34
121	Noise consideration for cancer marker detection using nanowire. , 2014, , .		0
122	Optimized operation of silicon nanowire field effect transistor sensors. <i>Nanotechnology</i> , 2014, 25, 505501.	2.6	13
123	Silicon Nanowire Biologically Sensitive Field Effect Transistors: Electrical Characteristics and Applications. <i>Journal of Nanoscience and Nanotechnology</i> , 2014, 14, 273-287.	0.9	13
124	Nanoscale vacuum channel transistor. , 2014, , .		2
125	Electrical and pH sensing characteristics of Si nanowire-based suspended FET biosensors. , 2014, , .		6
126	Carbon Nanotube Coated Paper Sensor for Damage Diagnosis. <i>ACS Nano</i> , 2014, 8, 12092-12097.	14.6	28



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127	Thermally Phase-Transformed In <sub>2</sub> Se <sub>3</sub> Nanowires for Highly Sensitive Photodetectors. Small, 2014, 10, 3795-3802.	10.0	43
128	Plasma Jet Printing of Electronic Materials on Flexible and Nonconformal Objects. ACS Applied Materials & Interfaces, 2014, 6, 20860-20867.	8.0	40
129	Vacuum gate dielectric gate-all-around nanowire for hot carrier injection and bias temperature instability free transistor. Applied Physics Letters, 2014, 104, .	3.3	24
130	Suspended honeycomb nanowire ISFETs for improved stiction-free performance. Nanotechnology, 2014, 25, 345501.	2.6	20
131	Synthesis and characterization of carbon nanowalls on different substrates by radio frequency plasma enhanced chemical vapor deposition. Carbon, 2014, 72, 372-380.	10.3	121
132	Cofabrication of Vacuum Field Emission Transistor (VFET) and MOSFET. IEEE Nanotechnology Magazine, 2014, 13, 464-468.	2.0	71
133	Trigger and Self-Latch Mechanisms of n-p-n Bistable Resistor. IEEE Electron Device Letters, 2014, 35, 387-389.	3.9	18
134	Investigation of thermal resistance and power consumption in Ga-doped indium oxide (In <sub>2</sub> O <sub>3</sub> ) nanowire phase change random access memory. Applied Physics Letters, 2014, 104, 103510.	3.3	4
135	Label-free detection of C-reactive protein using a carbon nanofiber based biosensor. Biosensors and Bioelectronics, 2014, 59, 112-119.	10.1	123
136	Carbon nanotube ink for writing on cellulose paper. Materials Research Bulletin, 2014, 50, 249-253.	5.2	69
137	Kinetic model of carbon nanotube production from carbon dioxide in a floating catalytic chemical vapour deposition reactor. RSC Advances, 2014, 4, 9564.	3.6	15
138	Ga-doped indium oxide nanowire phase change random access memory cells. Nanotechnology, 2014, 25, 055205.	2.6	10
139	Single-crystalline CdTe nanowire field effect transistors as nanowire-based photodetector. Physical Chemistry Chemical Physics, 2014, 16, 22687-22693.	2.8	54
140	Vertically aligned carbon nanofiber nanoelectrode arrays: electrochemical etching and electrode reusability. RSC Advances, 2014, 4, 22642.	3.6	9
141	A carbon nanotube based ammonia sensor on cellulose paper. RSC Advances, 2014, 4, 549-553.	3.6	113
142	Vertical graphene by plasma-enhanced chemical vapor deposition: Correlation of plasma conditions and growth characteristics. Journal of Materials Research, 2014, 29, 417-425.	2.6	23
143	X-ray Absorption Study of Graphene Oxide and Transition Metal Oxide Nanocomposites. Journal of Physical Chemistry C, 2014, 118, 18706-18712.	3.1	79
144	Annealing effect on the thermal conductivity of thermoelectric ZnTe nanowires. Materials Letters, 2014, 135, 87-91.	2.6	2

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145	In Situ Observation of Melting Behavior of ZnTe Nanowires. Journal of Physical Chemistry C, 2014, 118, 15061-15067.	3.1	12
146	A Growth Mechanism for Free-Standing Vertical Graphene. Nano Letters, 2014, 14, 3064-3071.	9.1	221
147	Role of an encapsulating layer for reducing resistance drift in phase change random access memory. AIP Advances, 2014, 4, .	1.3	3
148	Nanowire BioFETs: An Overview. , 2014, , 225-240.		4
149	Functionalized-Carbon Nanotube Sensor for Room Temperature Ammonia Detection. Sensor Letters, 2014, 12, 1469-1476.	0.4	16
150	Room temperature carbon nanotube based sensor for carbon monoxide detection. Journal of Sensors and Sensor Systems, 2014, 3, 349-354.	0.9	36
151	Low temperature Pd/SnO <sub>2</sub> sensor for carbon monoxide detection. Sensors and Actuators B: Chemical, 2013, 177, 770-775.	7.8	59
152	Nanostructured materials for supercapacitors. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2013, 31, .	2.1	38
153	A carbon nanofiber based biosensor for simultaneous detection of dopamine and serotonin in the presence of ascorbic acid. Biosensors and Bioelectronics, 2013, 42, 434-438.	10.1	123
154	Thermal conductivity of ZnTe nanowires. Journal of Applied Physics, 2013, 114, .	2.5	17
155	Thermally efficient and highly scalable In <sub>2</sub> Se <sub>3</sub> nanowire phase change memory. Journal of Applied Physics, 2013, 113, 164303.	2.5	16
156	Improved Electrical Characteristics of Honeycomb Nanowire ISFETs. IEEE Electron Device Letters, 2013, 34, 1059-1061.	3.9	23
157	Size-dependent characteristics of highly-scalable In <sub>2</sub> Se <sub>3</sub> nanowire phase-change random access memory. , 2013, , .		0
158	Improved performance of In <sub>2</sub> Se <sub>3</sub> nanowire phase-change memory with SiO <sub>2</sub> passivation. Solid-State Electronics, 2013, 80, 10-13.	1.4	19
159	Bandgap engineering of Cd <sub>x</sub> Zn <sub>1-x</sub> Te nanowires. Nanoscale, 2013, 5, 932.	5.6	8
160	Resistive switching in single vertically-aligned ZnO nanowire grown directly on Cu substrate. Chemical Physics Letters, 2013, 575, 112-114.	2.6	12
161	A carbon nanotube-infused polysulfone membrane with polyvinyl alcohol layer for treating oil-containing waste water. Scientific Reports, 2013, 3, 1509.	3.3	108
162	Neuromodulation: selected approaches and challenges. Journal of Neurochemistry, 2013, 124, 436-453.	3.9	14

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163	A carbon nanotube based ammonia sensor on cotton textile. Applied Physics Letters, 2013, 102, .	3.3	72
164	Plasma nanoscience: from nano-solids in plasmas to nano-plasmas in solids. Advances in Physics, 2013, 62, 113-224.	14.4	486
165	Label-Free Detection of Cardiac Troponin-I Using Carbon Nanofiber Based Nanoelectrode Arrays. Analytical Chemistry, 2013, 85, 3858-3863.	6.5	152
166	Investigation of the electrical stability of Si-nanowire biologically sensitive field-effect transistors with embedded Ag/AgCl pseudo reference electrode. RSC Advances, 2013, 3, 7963.	3.6	19
167	Carbon Nanofiber Electrode for Neurochemical Monitoring. Molecular Neurobiology, 2013, 48, 380-385.	4.0	27
168	Controlled growth of vertical ZnO nanowires on copper substrate. Applied Physics Letters, 2013, 102, .	3.3	14
169	Investigation of electromigration in In <sub>2</sub> Se <sub>3</sub> nanowire for phase change memory devices. Applied Physics Letters, 2013, 103, .	3.3	14
170	Dimensional Analysis and Mechanical Properties Characterization of Carbon Nanofibers under Subzero Temperatures. IEEE Nanotechnology Magazine, 2013, 12, 810-816.	2.0	1
171	A replacement of high- <i>k</i> process for CMOS transistor by atomic layer deposition. Semiconductor Science and Technology, 2013, 28, 082003.	2.0	4
172	Red-green-blue light sensitivity of oxide nanowire transistors for transparent display applications. AIP Advances, 2013, 3, .	1.3	6
173	The effect of Ga content on In <sub>x</sub> Ga <sub>2-2x</sub> O <sub>3</sub> nanowire transistor characteristics. Nanotechnology, 2012, 23, 305203.	2.6	12
174	Carbon nanofiber multiplexed array and wireless instantaneous neurotransmitter concentration sensor for simultaneous detection of dissolved oxygen and dopamine. Biomedical Engineering Letters, 2012, 2, 271-277.	4.1	8
175	A Gate-Dielectric-Last Process via Photosolidification of Liquid Resin. IEEE Electron Device Letters, 2012, 33, 746-748.	3.9	1
176	Enabling communication and cooperation in bio-nanosensor networks: toward innovative healthcare solutions. IEEE Wireless Communications, 2012, 19, 42-51.	9.0	43
177	Liquid gate dielectric field effect transistor for a radiation nose. Sensors and Actuators A: Physical, 2012, 182, 1-5.	4.1	4
178	Post-growth modification of electrical properties of ZnTe nanowires. Chemical Physics Letters, 2012, 543, 117-120.	2.6	7
179	Vertical ZnO nanowire growth on metal substrates. Nanotechnology, 2012, 23, 194015.	2.6	66
180	Tin oxide and indium oxide nanowire transport characteristics: influence of oxygen concentration during synthesis. Semiconductor Science and Technology, 2012, 27, 035018.	2.0	8

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181	Photostable Zn <sub>2</sub> SnO <sub>4</sub> Nanowire Transistors for Transparent Displays. ACS Nano, 2012, 6, 4912-4920.	14.6	41
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