Nicola Donato

List of Publications by Year
in descending order

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209	4,552	101543	128289
papers	citations	36	60
		h-index	g-index

229	229	229	5577
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A novel yttria-doped ZrO2 based conductometric sensor for hydrogen leak monitoring. International Journal of Hydrogen Energy, 2022, 47, 9819-9828.	7.1	19
2	Enhancement of SSVEPs Classification in BCI-Based Wearable Instrumentation Through Machine Learning Techniques. IEEE Sensors Journal, 2022, 22, 9087-9094.	4.7	22
3	Design and Characterization of a Microwave Transducer for Gas Sensing Applications. Chemosensors, 2022, 10, 127.	3.6	5
4	Equivalent Circuit Model Extraction for a SAW Resonator: Below and above Room Temperature. Sensors, 2022, 22, 2546.	3.8	4
5	Performance enhancement of wearable instrumentation for AR-based SSVEP BCI. Measurement: Journal of the International Measurement Confederation, 2022, 196, 111188.	5.0	12
6	Microwave Transducers for Gas Sensing: A Challenging and Promising New Frontier. IEEE Instrumentation and Measurement Magazine, 2022, 25, 42-51.	1.6	7
7	Performance and Usability Evaluation of an Extended Reality Platform to Monitor Patientâ€™s Health during Surgical Procedures. Sensors, 2022, 22, 3908.	3.8	6
8	A ML-based Approach to Enhance Metrological Performance of Wearable Brain-Computer Interfaces. , 2022, , .		1
9	Temperature modulated Cu-MOF based gas sensor with dual selectivity to acetone and NO2 at low operating temperatures. Sensors and Actuators B: Chemical, 2021, 329, 129053.	7.8	66
10	A Novel Sensor-Integrated Aperture Coupled Microwave Patch Resonator for Humidity Detection. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-11.	4.7	28
11	Measurement-Based Extraction and Analysis of a Temperature-Dependent Equivalent-Circuit Model for a SAW Resonator: From Room Down to Cryogenic Temperatures. IEEE Sensors Journal, 2021, 21, 12202-12211.	4.7	17
12	A Novel Low-Complexity Frequency Estimation Algorithm for Industrial Internet-of-Things Applications. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-10.	4.7	12
13	Development of a Ternary AlMgZnO-Based Conductometric Sensor for Carbon Oxides Sensing. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-7.	4.7	6
14	On the Performance Evaluation of Commercial SAW Resonators by Means of a Direct and Reliable Equivalent-Circuit Extraction. Micromachines, 2021, 12, 303.	2.9	12
15	Design and Performance Evaluation of a â€œFixed-Pointâ€•Spar Buoy Equipped with a Piezoelectric Energy Harvesting Unit for Floating Near-Shore Applications. Sensors, 2021, 21, 1912.	3.8	4
16	Metal-Oxide Based Nanomaterials: Synthesis, Characterization and Their Applications in Electrical and Electrochemical Sensors. Sensors, 2021, 21, 2494.	3.8	79
17	PMMA-coated fiber Bragg grating sensor for measurement of Ethanol in liquid solution: manufacturing and metrological evaluation. Acta IMEKO (2012), 2021, 10, 133.	0.7	1
18	Development of a multi-transduction system for breath analysis in neurodegenerative diseases. , 2021, , .		4

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19	An Efficient Near-lossless Compression Algorithm for Multichannel EEG signals. , 2021, , .		5
20	On the design and characterisation of a microwave microstrip resonator for gas sensing applications. Acta IMEKO (2012), 2021, 10, 54.	0.7	9
21	Comparison of machine learning techniques for SoC and SoH evaluation from impedance data of an aged lithium ion battery. Acta IMEKO (2012), 2021, 10, 80.	0.7	0
22	Hydrogen chemoresistive sensor for the analysis of gut health. , 2021, , .		0
23	Orange peels-derived hydrochar for chemical sensing applications. Sensors and Actuators B: Chemical, 2021, 341, 130016.	7.8	25
24	Development of a MnOâ„-Modified Screen-Printed Electrode for Phenol Monitoring. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-9.	4.7	3
25	CNT/Al₂O₃ coreâ€“shell nanostructures for the electrochemical detection of dihydroxybenzene isomers. Physical Chemistry Chemical Physics, 2021, 23, 14064-14074.	2.8	5
26	Extraction of the Resonant Parameters for Surface Acoustic Wave Resonators: ANN s versus Lorentzian Fitting Method. , 2021, , .		0
27	Compact System for Colorimetric Sensor Arrays Characterization Based on Computer Screen Photo-Assisted Technology. Electronics (Switzerland), 2021, 10, 2587.	3.1	1
28	Niobium Pentaoxide Thin-Film Gas Sensor for Portable Acetone Sensing. , 2021, , .		0
29	Development of an Integrated In-Vehicle Driver Breath Ethanol System Based on Î±-Fe2O3 Sensing Material. , 2021, 5, .		0
30	A Simple and Efficient Near-lossless Compression Algorithm for Multichannel EEG Systems. , 2021, , .		5
31	Development of an Inkjet-Printed Interdigitated Device: CAD, Fabrication, and Testing. , 2021, , .		3
32	CO and CO2 sensing by Al-Mg-ZnO based conductometric sensor. , 2020, , .		1
33	Ethanol breath measuring system. , 2020, , .		5
34	A new frequency estimation algorithm for IIoT applications and low-cost instrumentation. , 2020, , .		10
35	Fast and selective detection of volatile organic compounds using a novel pseudo spin-ladder compound CaCu₂O₃. Materials Advances, 2020, 1, 2368-2379.	5.4	4
36	Characterization and Neural Modeling of a Microwave Gas Sensor for Oxygen Detection Aimed at Healthcare Applications. Sensors, 2020, 20, 7150.	3.8	15

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37	On the Gas Sensing Properties of Microwave Transducers. , 2020, , .		4
38	Artificial Neural Network Modeling of Interdigital Capacitor Sensor for Oxygen Detection. , 2020, , .		5
39	Cryogenic Electrical Characterization and Equivalent-Circuit Modeling of SAW Resonators. , 2020, , .		5
40	High Sensitive and Selective Minisensor for Acetone Monitoring. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 3308-3316.	4.7	9
41	Soft Sensors Based on Deep Neural Networks for Applications in Security and Safety. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 7869-7876.	4.7	53
42	High performance Gd-doped Î³-Fe2O3 based acetone sensor. Materials Science in Semiconductor Processing, 2020, 116, 105154.	4.0	22
43	Comparison of Electrical and Sensing Properties of Pure, Sn- and Zn-Doped CuO Gas Sensors. IEEE Transactions on Instrumentation and Measurement, 2019, 68, 903-912.	4.7	29
44	Nb₂O₅ thin film-based conductometric sensor for acetone monitoring. , 2019, , .		10
45	NdFeO3 as a new electrocatalytic material for the electrochemical monitoring of dopamine. Analytical and Bioanalytical Chemistry, 2019, 411, 7681-7688.	3.7	17
46	High Performance Flame-Made Ultraporous ZnO-Based QCM Sensor For Acetaldehyde. , 2019, , .		5
47	High Performance VOCs Sensor Based on É£-Fe2O3/Al-ZnO Nanocomposites. Lecture Notes in Electrical Engineering, 2019, , 25-30.	0.4	0
48	Effects of UV Irradiation on the Sensing Properties of In2O3 for CO Detection at Low Temperature. Micromachines, 2019, 10, 338.	2.9	9
49	Synthesis and characterization of Sm2O3 nanorods for application as a novel CO gas sensor. Applied Surface Science, 2019, 487, 793-800.	6.1	28
50	A Movement-Tremors Recorder for Patients of Neurodegenerative Diseases. IEEE Transactions on Instrumentation and Measurement, 2019, 68, 1451-1457.	4.7	21
51	Sensor-Integrated Aperture Coupled Patch Antenna. , 2019, , .		9
52	Cryogenic Characterization of SAW Resonators. , 2019, , .		2
53	Resonant Devices and Gas Sensing: from Low Frequencies to Microwave Range. , 2019, , .		12
54	An Experimental Evaluation of CRT-based Forwarding Technique. , 2019, , .		3

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55	Editorial for the Special Issue on Nanostructure Based Sensors for Gas Sensing: from Devices to Systems. Micromachines, 2019, 10, 591.	2.9	0
56	Quantitative assessment of Parkinsonian tremor by using biosensor device. Medicine (United States), 2019, 98, e17897.	1.0	6
57	High performance acetone sensor based on Î³-Fe₂O₃/Alâ€“ZnO nanocomposites. Nanotechnology, 2019, 30, 055502.	2.6	19
58	Ammonia sensing properties of two-dimensional tin disulphide/tin oxides (SnS2/SnO2-x) mixed phases. Journal of Alloys and Compounds, 2019, 781, 440-449.	5.5	28
59	Samarium Oxide as a Novel Sensing Material for Acetone and Ethanol. Lecture Notes in Electrical Engineering, 2019, , 83-87.	0.4	1
60	Development of a hydrogen dual sensor for fuel cell applications. International Journal of Hydrogen Energy, 2018, 43, 11896-11902.	7.1	20
61	Synthesis, characterization and hydrogen sensing properties of nanosized colloidal rhodium oxides prepared by Pulsed Laser Ablation in water. Sensors and Actuators B: Chemical, 2018, 262, 79-85.	7.8	11
62	Nanostructured MnO<inf>2</inf> for phenolic compounds degradation and monitoring. , 2018, , .		1
63	Thermo-mechanical and physical characterization of polyolefin based films for photovoltaic cells. AIP Conference Proceedings, 2018, , .	0.4	3
64	A highly sensitive room temperature humidity sensor based on 2D-WS2 nanosheets. FlatChem, 2018, 9, 21-26.	5.6	30
65	A ballistocardiogram acquisition system for respiration and heart rate monitoring. , 2018, , .		7
66	Development of a high performance oxygen sensor operating at room temperature. , 2018, , .		2
67	Stable Aqueous Solution for the Fabrication of Î±-Fe2O3 Thin Film-Based Chemoresistive Sensors. Lecture Notes in Electrical Engineering, 2018, , 97-102.	0.4	0
68	CO sensing characteristics of In-doped ZnO semiconductor nanoparticles. Journal of Science: Advanced Materials and Devices, 2017, 2, 34-40.	3.1	37
69	Enhanced performance of novel calcium/aluminum co-doped zinc oxide for CO 2 sensors. Sensors and Actuators B: Chemical, 2017, 239, 36-44.	7.8	88
70	Sm-doped cobalt ferrite nanoparticles: A novel sensing material for conductometric hydrogen leak sensor. Ceramics International, 2017, 43, 1029-1037.	4.8	69
71	Effect of gamma irradiation on structural, electrical and gas sensing properties of tungsten oxide nanoparticles. Journal of Alloys and Compounds, 2017, 693, 366-372.	5.5	42
72	Comparison of the Sensing Properties of ZnO Nanowalls-Based Sensors toward Low Concentrations of CO and NO2. Chemosensors, 2017, 5, 20.	3.6	19

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73	Characterization and Ammonia Sensing Properties of 2D SnS2/SnO2â^'x Flakes-Based Films. Proceedings (mdpi), 2017, 1, 327.	0.2	1
74	Mechanical and physical properties of epoxy resin based nanocomposites reinforced with polyamine functionalized carbon nanotubes. Polymer Composites, 2016, 37, 1007-1015.	4.6	14
75	Development of a Novel Cu(II) Complex Modified Electrode and a Portable Electrochemical Analyzer for the Determination of Dissolved Oxygen (DO) in Water. Chemosensors, 2016, 4, 7.	3.6	11
76	A compact electronic interface for electrochemical sensors. , 2016, , .		0
77	Pt-decorated In2O3 nanoparticles and their ability as a highly sensitive (<10 ppb) acetone sensor for biomedical applications. Sensors and Actuators B: Chemical, 2016, 230, 697-705.	7.8	97
78	A neural network approach for safety monitoring applications. , 2016, , .		6
79	Polyester resin and carbon nanotubes based nanocomposite as new-generation coating to prevent biofilm formation. International Journal of Polymer Analysis and Characterization, 2016, 21, 327-336.	1.9	18
80	Gas sensing properties of Al-doped ZnO for UV-activated CO detection. Journal Physics D: Applied Physics, 2016, 49, 135502.	2.8	54
81	Carbon nanotube-based sensing devices for human Arginase-1 detection. Sensing and Bio-Sensing Research, 2016, 7, 168-173.	4.2	25
82	On paper colorimetric sensor for ascorbic acid detection. , 2015, , .		1
83	ZnO:Ca nanopowders with enhanced CO₂sensing properties. Journal Physics D: Applied Physics, 2015, 48, 255503.	2.8	68
84	Ink-Jet Printed Colorimetric Sensor for the Determination of Fe(II). IEEE Sensors Journal, 2015, 15, 3196-3200.	4.7	10
85	CO sensing properties of Ga-doped ZnO prepared by solâ€"gel route. Journal of Alloys and Compounds, 2015, 634, 187-192.	5.5	62
86	La_{0.6}Sr_{0.4}FeO_{3â€Î´} and La_{0.6}Sr_{0.4}Co_{0.2}Fe_{0.8}O_{3â€Î´} Perovskite Materials for H₂O₂ and Glucose Electrochemical Sensors. Electroanalysis, 2015, 27, 684-692.	2.9	35
87	Ag-doped nanostructured materials for electrochemical sensors. , 2015, , .		3
88	CO sensing properties under UV radiation of Ga-doped ZnO nanopowders. Applied Surface Science, 2015, 355, 1321-1326.	6.1	48
89	Gas sensing properties and p-type response of ALD TiO₂coated carbon nanotubes. Nanotechnology, 2015, 26, 024004.	2.6	39
90	Novel nanosynthesis of In₂O₃ and its application as a resistive gas sensor for sevoflurane anesthetic. Journal of Materials Chemistry B, 2015, 3, 399-407.	5.8	21

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91	Defects and gas sensing properties of carbon nanotube-based devices. Journal of Sensors and Sensor Systems, 2015, 4, 25-30.	0.9	14
92	Correlation Between Structural and Sensing Properties of Carbon Nanotube-Based Devices. Lecture Notes in Electrical Engineering, 2015, , 207-210.	0.4	1
93	Optical, electrical and sensing properties of ZnO nanoparticles synthesized by sol-gel technique. , 2014, , .		2
94	Electrochemical sensing of ascorbic acid by a novel manganese(III) complex. Materials Letters, 2014, 133, 232-235.	2.6	10
95	Microstructural, Electrical and Hydrogen Sensing Properties of F-SnO2 Nanoparticles. Procedia Engineering, 2014, 87, 1087-1090.	1.2	2
96	Dissolved Oxygen Sensor Based on Reduced Graphene Oxide. Lecture Notes in Electrical Engineering, 2014, , 89-93.	0.4	0
97	Development of doped ZnO nanoparticles for gas sensing application. , 2014, , .		1
98	Sensing Behavior of SnO2-Graphene Nanocomposites. Lecture Notes in Electrical Engineering, 2014, , 417-420.	0.4	1
99	Amperometric Sensing of H₂O₂ using Ptâ€“TiO₂/Reduced Graphene Oxide Nanocomposites. ChemElectroChem, 2014, 1, 617-624.	3.4	56
100	Effect of indium doping on ZnO based-gas sensor for CO. Materials Science in Semiconductor Processing, 2014, 27, 319-325.	4.0	82
101	Development of Gas Sensors on Microstrip Disk Resonators. Procedia Engineering, 2014, 87, 1083-1086.	1.2	13
102	Sensing Properties Characterization of a Poly (Diallyldimethylammonium Chloride)-Based Saw Device. Lecture Notes in Electrical Engineering, 2014, , 503-507.	0.4	0
103	Arduino-Based Shield for Resistive Gas Sensor Array Characterization Under UV Light Exposure. Lecture Notes in Electrical Engineering, 2014, , 411-415.	0.4	0
104	Fe3O4â€“MWCNTPhCOOH composites for ammonia resistive sensors. Sensors and Actuators B: Chemical, 2013, 186, 333-342.	7.8	28
105	Sensing behavior of SnO2/reduced graphene oxide nanocomposites toward NO2. Sensors and Actuators B: Chemical, 2013, 179, 61-68.	7.8	160
106	New Sensing Model of (Mesoporous) In2O3. Springer Series on Chemical Sensors and Biosensors, 2013, , 175-211.	0.5	2
107	Behavior of sheet-like crystalline ammonium trivanadate hemihydrate (NH4V3O8Ã—0.5H2O) as a novel ammonia sensing material. Journal of Solid State Chemistry, 2013, 202, 105-110.	2.9	19
108	Sensing properties of ZnO nanoparticles synthesized by using albumen as a biotemplate for acetic acid monitoring in aqueous mixture. Sensors and Actuators B: Chemical, 2013, 176, 560-568.	7.8	33

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109	UV light-enhanced NO2 sensing by mesoporous In2O3: Interpretation of results by a new sensing model. Sensors and Actuators B: Chemical, 2013, 187, 488-494.	7.8	63
110	CO and NO2 Selective Monitoring by ZnO-Based Sensors. Nanomaterials, 2013, 3, 357-369.	4.1	92
111	Development of an amperometric H<inf>2</inf>O<inf>2</inf> sensor based on MOx/reduced graphene oxide nanocomposites. , 2013, , .		0
112	Plasma Technologies in the Synthesis and Treatment of Nanostructured Metal Oxide Semiconductors for Gas Sensing: A Short Review. Nanoscience and Nanotechnology Letters, 2013, 4, 211-227.	0.4	9
113	Development of an Arduino shield for measurement and characterization of resistive sensors. , 2013, , .		0
114	Comparison between PMMA and PVAC coated fiber Bragg grating sensors for relative humidity measurements. , 2012, , .		0
115	Pt-TiO2/MWCNTs Hybrid Composites for Monitoring Low Hydrogen Concentrations in Air. Sensors, 2012, 12, 12361-12373.	3.8	36
116	Real-time monitoring of breath ammonia during haemodialysis: use of ion mobility spectrometry (IMS) and cavity ring-down spectroscopy (CRDS) techniques. Nephrology Dialysis Transplantation, 2012, 27, 2945-2952.	0.7	59
117	Morphological Modification of MWCNT Functionalized with HNO₃/H₂SO₄ Mixtures. Journal of Nanoscience and Nanotechnology, 2012, 12, 5054-5060.	0.9	51
118	Roomâ€Temperature Hydrogen Sensing with Heteronanostructures Based on Reduced Graphene Oxide and Tin Oxide. Angewandte Chemie - International Edition, 2012, 51, 11053-11057.	13.8	259
119	On the Development and Characterization of PMA-based SAW Sensing Devices. Procedia Engineering, 2012, 47, 1271-1274.	1.2	2
120	E-nose Development for Safety Monitoring Applications in Refinery Environment. Procedia Engineering, 2012, 47, 1267-1270.	1.2	11
121	Ethanol Sensing Properties of PMMA-Coated Fiber Bragg Grating. Procedia Engineering, 2012, 47, 1263-1266.	1.2	16
122	Mesoporous In2O3: Photoreduction and Gas-Sensing Properties. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2012, 638, 1563-1563.	1.2	1
123	MOx/CNTs Hetero-Structures for Gas Sensing Applications: Role of CNTs Defects. Procedia Engineering, 2012, 47, 1259-1262.	1.2	4
124	Photoreduction of Mesoporous In₂O₃: Mechanistic Model and Utility in Gas Sensing. Chemistry - A European Journal, 2012, 18, 8216-8223.	3.3	61
125	Hydrogen sensing characteristics of Pt/TiO 2 /MWCNTs composites. International Journal of Hydrogen Energy, 2012, 37, 1842-1851.	7.1	68
126	Highly sensitive ammonia resistive sensor based on electrospun V2O5 fibers. Sensors and Actuators B: Chemical, 2012, 163, 61-68.	7.8	135

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127	Sensing Properties of SnO2/CNFs Hetero-Junctions. Lecture Notes in Electrical Engineering, 2012, , 105-108.	0.4	4
128	Development of a SOLT Calibration Setup for SAW Sensor Characterization. Lecture Notes in Electrical Engineering, 2012, , 265-269.	0.4	8
129	NO2 Sensors with Reduced Power Consumption Based on Mesoporous Indium Oxide. Lecture Notes in Electrical Engineering, 2012, , 55-59.	0.4	0
130	A dirhodium(ii,ii) complex as a highly selective molecular material for ammonia detection: QCM studies. Journal of Materials Chemistry, 2011, 21, 18034.	6.7	11
131	CdO-based nanostructures as novel CO₂gas sensors. Nanotechnology, 2011, 22, 325501.	2.6	86
132	CO sensing devices based on indium oxide nanoparticles prepared by laser ablation in water. Thin Solid Films, 2011, 520, 922-926.	1.8	11
133	Tin Dioxide Sensing Layer Grown on Tubular Nanostructures by a Nonâ€Aqueous Atomic Layer Deposition Process. Advanced Functional Materials, 2011, 21, 658-666.	14.9	77
134	Gas Sensing Properties of Indium Oxide Nanoparticles Prepared by Laser Ablation in Water. Lecture Notes in Electrical Engineering, 2011, , 113-117.	0.4	0
135	Room Temperature Hydrogen Sensor Based on Pt/TiO2/MWCNT Composites. Lecture Notes in Electrical Engineering, 2011, , 87-91.	0.4	0
136	Flexible ethanol sensors on glossy paper substrates operating at room temperature. Sensors and Actuators B: Chemical, 2010, 145, 488-494.	7.8	106
137	Gasochromic response of nanocrystalline vanadium pentoxide films deposited from ethanol dispersions. Thin Solid Films, 2010, 518, 7124-7127.	1.8	31
138	Flexible, all-organic ammonia sensor based on dodecylbenzene sulfonic acid-doped polyaniline films. Thin Solid Films, 2010, 518, 7133-7137.	1.8	41
139	Design and Development of a Breath Acetone MOS Sensor for Ketogenic Diets Control. IEEE Sensors Journal, 2010, 10, 131-136.	4.7	31
140	Micro-Raman analysis of titanium oxide/carbon nanotubes-based nanocomposites for hydrogen sensing applications. Journal of Solid State Chemistry, 2010, 183, 2451-2455.	2.9	44
141	Micro-Raman investigation of vanadium-oxide coated tubular carbon nanofibers for gas-sensing applications. Diamond and Related Materials, 2010, 19, 590-594.	3.9	29
142	A novel low-complex and low-memory method for accurate single-tone frequency estimation. , 2010, , .		10
143	Novel sensing materials for breath analysis devices. , 2010, 2010, 670-3.		4
144	Synthesis and Characterization of Cd(OH)₂ Nanowires Obtained by a Microwave-Assisted Chemical Route. Science of Advanced Materials, 2010, 2, 432-437.	0.7	15

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145	Sb-SnO₂-Nanosized-Based Resistive Sensors for NO₂Detection. Journal of Sensors, 2009, 2009, 1-7.	1.1	13
146	Characterization of n-type and p-type semiconductor gas sensors based on NiOx doped TiO2 thin films. Thin Solid Films, 2009, 517, 2775-2780.	1.8	172
147	RF sputtered ZnOâ€“ITO films for high temperature CO sensors. Thin Solid Films, 2009, 517, 6184-6187.	1.8	17
148	CO gas sensing of ZnO nanostructures synthesized by an assisted microwave wet chemical route. Sensors and Actuators B: Chemical, 2009, 143, 198-204.	7.8	122
149	Capacitive humidity sensors based on MWCNTs/polyelectrolyte interfaces deposited on flexible substrates. Microelectronics Journal, 2009, 40, 887-890.	2.0	26
150	Photovoltaic properties of multi-walled carbon nanotubes deposited on n-doped silicon. Microelectronics Journal, 2008, 39, 1659-1662.	2.0	26
151	Photosensitive properties of Peryleneâ€“Oxazine films, solution-deposited on doped silicon. Materials Letters, 2008, 62, 2388-2391.	2.6	0
152	Development of a self-calibrating hydrogen leak sensor. , 2008, , .		1
153	Hydrogen Gas Sensing Performance Of Pt/Sno₂ Nanowires/Sic Mos Devices. International Journal on Smart Sensing and Intelligent Systems, 2008, 1, 771-783.	0.7	15
154	DEVELOPMENT OF A SOLID STATE ANALYZER FOR BREATH ANALYSIS. , 2008, , .		0
155	Two Computational Approaches for Noise Modeling of Advanced Microwave Transistors. , 2007, , .		1
156	A neural network approach for compact cryogenic modelling of HEMTs. International Journal of Electronics, 2007, 94, 877-887.	1.4	12
157	Carbonyl sulphide (COS) monitoring on MOS sensors for biomedical applications. , 2007, , .		1
158	All-organic electrochemical devices based on a tetracyanoquinodimethane complex. Solid-State Electronics, 2007, 51, 639-643.	1.4	4
159	Electrical characterization of solid-state heterojunctions between PEDOT:PSS and an anionic polyelectrolyte. Microelectronics Journal, 2007, 38, 678-681.	2.0	3
160	Photosensitive heterojunctions of silicon coated with solâ€“gel derived TiO2 dispersed in poly(3,4-ethylendi oxythiophene)/poly(styrenesulfonate). Journal of Sol-Gel Science and Technology, 2007, 43, 41-46.	2.4	13
161	An evolution algorithm for noise modeling of HEMTâ€™s down to cryogenic temperatures. Journal of Computational Electronics, 2007, 5, 337-340.	2.5	0
162	Temperature effects on DC and small signal RF performance of AlGaAs/GaAs HEMTs. Microelectronics Reliability, 2006, 46, 169-173.	1.7	35

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163	Layered WO3/ZnO/36Â° LiTaO3 SAW gas sensor sensitive towards ethanol vapour and humidity. Sensors and Actuators B: Chemical, 2006, 117, 442-450.	7.8	56
164	Preparation and optical characterization of photosensitive multilayered structures based on polythiophenes and tetracyanoquinodimethane. Microelectronics Journal, 2006, 37, 1384-1388.	2.0	3
165	Ethanol sensors based on Pt-doped tin oxide nanopowders synthesised by gel-combustion. Sensors and Actuators B: Chemical, 2006, 117, 196-204.	7.8	93
166	Microwave Characterization and Modeling of Packaged HEMTs by a Direct Extraction Procedure Down to 30 K. IEEE Transactions on Instrumentation and Measurement, 2006, 55, 465-470.	4.7	42
167	Investigation of Permeation Tubes for Temperature-Compensated Gas-Sensor Calibrators. IEEE Sensors Journal, 2006, 6, 1120-1125.	4.7	7
168	Hydrogen sensing characteristics of WO3 thin film conductometric sensors activated by Pt and Au catalysts. Sensors and Actuators B: Chemical, 2005, 108, 154-158.	7.8	182
169	Electrical characterization of Fe2O3 humidity sensors doped with Li+, Zn2+ and Au3+ ions. Sensors and Actuators B: Chemical, 2005, 111-112, 71-77.	7.8	25
170	Temperature and bias investigation of self heating effect and threshold voltage shift in pHEMT's. Microelectronics Journal, 2005, 36, 732-736.	2.0	17
171	On the soft breakdown phenomenon in AlGaAs/InGaAs HEMT: An experimental study down to cryogenic temperature. Solid-State Electronics, 2005, 49, 928-934.	1.4	10
172	Impact of the self-generated heat on the scalability of HEMTs. Microelectronic Engineering, 2005, 82, 143-147.	2.4	5
173	Simulating Noise Performance of Advanced Devices down to Cryogenic Temperatures. AIP Conference Proceedings, 2005, , .	0.4	2
174	CRYOGENIC HEMT NOISE MODELING BY ARTIFICIAL NEURAL NETWORKS. Fluctuation and Noise Letters, 2005, 05, L423-L433.	1.5	13
175	DEVELOPMENT OF A TEMPERATURE-INDEPENDENT APPARATUS FOR GENERATING CALIBRATED GAS FLOW WITH PERMEATION TUBES. , 2005, , .		0
176	A NEW TECHNIQUE FOR EXTRACTING THE MOSFET THRESHOLD VOLTAGE USING NOISE MEASUREMENTS. Fluctuation and Noise Letters, 2004, 04, L643-L649.	1.5	2
177	A study of water influence on CO response on gold-doped iron oxide sensors. Sensors and Actuators B: Chemical, 2004, 101, 90-96.	7.8	31
178	A robust and fast procedure for the determination of the small signal equivalent circuit of HEMTs. Microelectronics Journal, 2004, 35, 431-436.	2.0	33
179	DOPED-Fe2O3 HUMIDITY SENSORS: AN ELECTRICAL MODELING AND CIRCUIT EVALUATION. , 2004, , .		0
180	STUDY ON THE BEHAVIOUR TO HUMIDITY OF Cr2-xTixO3 FILMS PREPARED BY SOL-GEL. , 2004, , .		0

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181	Advanced Simulation of Semiconductor Devices by Artificial Neural Networks. Journal of Computational Electronics, 2003, 2, 301-307.	2.5	12
182	Characterization techniques for temperature-dependent experimental analysis of microwave transistors. IEEE Transactions on Instrumentation and Measurement, 2003, 52, 85-91.	4.7	7
183	New materials for low temperature oxygen gas sensing. , 2003, , .		0
184	Investigation of thin films of mixed oxides for gas-sensing applications. Surface and Interface Analysis, 2002, 34, 672-676.	1.8	37
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