

Nicola Donato

List of Publications by Year in descending order

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209
papers

4,552
citations

101543

36
h-index

128289

60
g-index

229
all docs

229
docs citations

229
times ranked

5577
citing authors

#	ARTICLE	IF	CITATIONS
1	Room-Temperature Hydrogen Sensing with Heteronanostructures Based on Reduced Graphene Oxide and Tin Oxide. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 11053-11057.	13.8	259
2	Hydrogen sensing characteristics of WO ₃ thin film conductometric sensors activated by Pt and Au catalysts. <i>Sensors and Actuators B: Chemical</i> , 2005, 108, 154-158.	7.8	182
3	Characterization of n-type and p-type semiconductor gas sensors based on NiO _x doped TiO ₂ thin films. <i>Thin Solid Films</i> , 2009, 517, 2775-2780.	1.8	172
4	Sensing behavior of SnO ₂ /reduced graphene oxide nanocomposites toward NO ₂ . <i>Sensors and Actuators B: Chemical</i> , 2013, 179, 61-68.	7.8	160
5	Highly sensitive ammonia resistive sensor based on electrospun V ₂ O ₅ fibers. <i>Sensors and Actuators B: Chemical</i> , 2012, 163, 61-68.	7.8	135
6	CO gas sensing of ZnO nanostructures synthesized by an assisted microwave wet chemical route. <i>Sensors and Actuators B: Chemical</i> , 2009, 143, 198-204.	7.8	122
7	Flexible ethanol sensors on glossy paper substrates operating at room temperature. <i>Sensors and Actuators B: Chemical</i> , 2010, 145, 488-494.	7.8	106
8	Pt-decorated In ₂ O ₃ nanoparticles and their ability as a highly sensitive (≤ 10 ppb) acetone sensor for biomedical applications. <i>Sensors and Actuators B: Chemical</i> , 2016, 230, 697-705.	7.8	97
9	Ethanol sensors based on Pt-doped tin oxide nanopowders synthesised by gel-combustion. <i>Sensors and Actuators B: Chemical</i> , 2006, 117, 196-204.	7.8	93
10	CO and NO ₂ Selective Monitoring by ZnO-Based Sensors. <i>Nanomaterials</i> , 2013, 3, 357-369.	4.1	92
11	Enhanced performance of novel calcium/aluminum co-doped zinc oxide for CO ₂ sensors. <i>Sensors and Actuators B: Chemical</i> , 2017, 239, 36-44.	7.8	88
12	CdO-based nanostructures as novel CO ₂ gas sensors. <i>Nanotechnology</i> , 2011, 22, 325501.	2.6	86
13	Effect of indium doping on ZnO based-gas sensor for CO. <i>Materials Science in Semiconductor Processing</i> , 2014, 27, 319-325.	4.0	82
14	Sensitivity enhancement towards ethanol and methanol of TiO ₂ films doped with Pt and Nb. <i>Sensors and Actuators B: Chemical</i> , 2000, 64, 169-174.	7.8	81
15	Metal-Oxide Based Nanomaterials: Synthesis, Characterization and Their Applications in Electrical and Electrochemical Sensors. <i>Sensors</i> , 2021, 21, 2494.	3.8	79
16	Tin Dioxide Sensing Layer Grown on Tubular Nanostructures by a Non-Aqueous Atomic Layer Deposition Process. <i>Advanced Functional Materials</i> , 2011, 21, 658-666.	14.9	77
17	Sm-doped cobalt ferrite nanoparticles: A novel sensing material for conductometric hydrogen leak sensor. <i>Ceramics International</i> , 2017, 43, 1029-1037.	4.8	69
18	Hydrogen sensing characteristics of Pt/TiO ₂ /MWCNTs composites. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 1842-1851.	7.1	68

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19	ZnO:Ca nanopowders with enhanced CO ₂ sensing properties. Journal Physics D: Applied Physics, 2015, 48, 255503.	2.8	68
20	Temperature modulated Cu-MOF based gas sensor with dual selectivity to acetone and NO ₂ at low operating temperatures. Sensors and Actuators B: Chemical, 2021, 329, 129053.	7.8	66
21	UV light-enhanced NO ₂ sensing by mesoporous In ₂ O ₃ : Interpretation of results by a new sensing model. Sensors and Actuators B: Chemical, 2013, 187, 488-494.	7.8	63
22	CO sensing properties of Ga-doped ZnO prepared by sol-gel route. Journal of Alloys and Compounds, 2015, 634, 187-192.	5.5	62
23	Photoreduction of Mesoporous In ₂ O ₃ : Mechanistic Model and Utility in Gas Sensing. Chemistry - A European Journal, 2012, 18, 8216-8223.	3.3	61
24	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
25	Layered WO ₃ /ZnO/36Å° LiTaO ₃ SAW gas sensor sensitive towards ethanol vapour and humidity. Sensors and Actuators B: Chemical, 2006, 117, 442-450.	7.8	56
26	Amperometric Sensing of H ₂ O ₂ using Pt/TiO ₂ /Reduced Graphene Oxide Nanocomposites. ChemElectroChem, 2014, 1, 617-624.	3.4	56
27	Gas sensing properties of Al-doped ZnO for UV-activated CO detection. Journal Physics D: Applied Physics, 2016, 49, 135502.	2.8	54
28	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
29	Morphological Modification of MWCNT Functionalized with HNO ₃ /H ₂ SO ₄ Mixtures. Journal of Nanoscience and Nanotechnology, 2012, 12, 5054-5060.	0.9	51
30	CO sensing properties under UV radiation of Ga-doped ZnO nanopowders. Applied Surface Science, 2015, 355, 1321-1326.	6.1	48
31	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
32	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
33	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
34	Flexible, all-organic ammonia sensor based on dodecylbenzene sulfonic acid-doped polyaniline films. Thin Solid Films, 2010, 518, 7133-7137.	1.8	41
35	Gas sensing properties and p-type response of ALD TiO ₂ coated carbon nanotubes. Nanotechnology, 2015, 26, 024004.	2.6	39
36	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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37	CO sensing characteristics of In-doped ZnO semiconductor nanoparticles. Journal of Science: Advanced Materials and Devices, 2017, 2, 34-40.	3.1	37
38	Pt-TiO ₂ /MWCNTs Hybrid Composites for Monitoring Low Hydrogen Concentrations in Air. Sensors, 2012, 12, 12361-12373.	3.8	36
39	Temperature effects on DC and small signal RF performance of AlGaAs/GaAs HEMTs. Microelectronics Reliability, 2006, 46, 169-173.	1.7	35
40	La _{0.6} Sr _{0.4} FeO ₃ and La _{0.6} Sr _{0.4} Co _{0.2} Fe _{0.8} O ₃ Perovskite Materials for H ₂ O and Glucose Electrochemical Sensors. Electroanalysis, 2015, 27, 684-692.	2.9	35
41	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
42	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
43	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
44	Gasochromic response of nanocrystalline vanadium pentoxide films deposited from ethanol dispersions. Thin Solid Films, 2010, 518, 7124-7127.	1.8	31
45	Design and Development of a Breath Acetone MOS Sensor for Ketogenic Diets Control. IEEE Sensors Journal, 2010, 10, 131-136.	4.7	31
46	A highly sensitive room temperature humidity sensor based on 2D-WS ₂ nanosheets. FlatChem, 2018, 9, 21-26.	5.6	30
47	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
48	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
49	Fe ₃ O ₄ /MWCNT/PhCOOH composites for ammonia resistive sensors. Sensors and Actuators B: Chemical, 2013, 186, 333-342.	7.8	28
50	Synthesis and characterization of Sm ₂ O ₃ nanorods for application as a novel CO gas sensor. Applied Surface Science, 2019, 487, 793-800.	6.1	28
51	Ammonia sensing properties of two-dimensional tin disulphide/tin oxides (SnS ₂ /SnO _{2-x}) mixed phases. Journal of Alloys and Compounds, 2019, 781, 440-449.	5.5	28
52	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
53	Photovoltaic properties of multi-walled carbon nanotubes deposited on n-doped silicon. Microelectronics Journal, 2008, 39, 1659-1662.	2.0	26
54	Capacitive humidity sensors based on MWCNTs/polyelectrolyte interfaces deposited on flexible substrates. Microelectronics Journal, 2009, 40, 887-890.	2.0	26

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55	Electrical characterization of Fe ₂ O ₃ humidity sensors doped with Li ⁺ , Zn ²⁺ and Au ³⁺ ions. <i>Sensors and Actuators B: Chemical</i> , 2005, 111-112, 71-77.	7.8	25
56	Carbon nanotube-based sensing devices for human Arginase-1 detection. <i>Sensing and Bio-Sensing Research</i> , 2016, 7, 168-173.	4.2	25
57	Orange peels-derived hydrochar for chemical sensing applications. <i>Sensors and Actuators B: Chemical</i> , 2021, 341, 130016.	7.8	25
58	High performance Gd-doped $\hat{3}$ -Fe ₂ O ₃ based acetone sensor. <i>Materials Science in Semiconductor Processing</i> , 2020, 116, 105154.	4.0	22
59	Enhancement of SSVEPs Classification in BCI-Based Wearable Instrumentation Through Machine Learning Techniques. <i>IEEE Sensors Journal</i> , 2022, 22, 9087-9094.	4.7	22
60	Novel nanosynthesis of In ₂ O ₃ and its application as a resistive gas sensor for sevoflurane anesthetic. <i>Journal of Materials Chemistry B</i> , 2015, 3, 399-407.	5.8	21
61	A Movement-Tremors Recorder for Patients of Neurodegenerative Diseases. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2019, 68, 1451-1457.	4.7	21
62	Development of a hydrogen dual sensor for fuel cell applications. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 11896-11902.	7.1	20
63	Behavior of sheet-like crystalline ammonium trivanadate hemihydrate (NH ₄ V ₃ O ₈ ·0.5H ₂ O) as a novel ammonia sensing material. <i>Journal of Solid State Chemistry</i> , 2013, 202, 105-110.	2.9	19
64	Comparison of the Sensing Properties of ZnO Nanowalls-Based Sensors toward Low Concentrations of CO and NO ₂ . <i>Chemosensors</i> , 2017, 5, 20.	3.6	19
65	High performance acetone sensor based on $\hat{3}$ -Fe ₂ O ₃ /Al-ZnO nanocomposites. <i>Nanotechnology</i> , 2019, 30, 055502.	2.6	19
66	A novel yttria-doped ZrO ₂ based conductometric sensor for hydrogen leak monitoring. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 9819-9828.	7.1	19
67	Polyester resin and carbon nanotubes based nanocomposite as new-generation coating to prevent biofilm formation. <i>International Journal of Polymer Analysis and Characterization</i> , 2016, 21, 327-336.	1.9	18
68	Temperature and bias investigation of self heating effect and threshold voltage shift in pHEMT's. <i>Microelectronics Journal</i> , 2005, 36, 732-736.	2.0	17
69	RF sputtered ZnO-ITO films for high temperature CO sensors. <i>Thin Solid Films</i> , 2009, 517, 6184-6187.	1.8	17
70	NdFeO ₃ as a new electrocatalytic material for the electrochemical monitoring of dopamine. <i>Analytical and Bioanalytical Chemistry</i> , 2019, 411, 7681-7688.	3.7	17
71	Measurement-Based Extraction and Analysis of a Temperature-Dependent Equivalent-Circuit Model for a SAW Resonator: From Room Down to Cryogenic Temperatures. <i>IEEE Sensors Journal</i> , 2021, 21, 12202-12211.	4.7	17
72	Ethanol Sensing Properties of PMMA-Coated Fiber Bragg Grating. <i>Procedia Engineering</i> , 2012, 47, 1263-1266.	1.2	16

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73	Characterization and Neural Modeling of a Microwave Gas Sensor for Oxygen Detection Aimed at Healthcare Applications. <i>Sensors</i> , 2020, 20, 7150.	3.8	15
74	Synthesis and Characterization of Cd(OH) ₂ Nanowires Obtained by a Microwave-Assisted Chemical Route. <i>Science of Advanced Materials</i> , 2010, 2, 432-437.	0.7	15
75	Hydrogen Gas Sensing Performance Of Pt/SnO ₂ Nanowires/Sic Mos Devices. <i>International Journal on Smart Sensing and Intelligent Systems</i> , 2008, 1, 771-783.	0.7	15
76	Tin Dioxide-Carbon Heterostructures Applied to Gas Sensing: Structure-Dependent Properties and General Sensing Mechanism. <i>Journal of Physical Chemistry C</i> , 0, , 130916143757006.	3.1	14
77	Mechanical and physical properties of epoxy resin based nanocomposites reinforced with polyamine functionalized carbon nanotubes. <i>Polymer Composites</i> , 2016, 37, 1007-1015.	4.6	14
78	Defects and gas sensing properties of carbon nanotube-based devices. <i>Journal of Sensors and Sensor Systems</i> , 2015, 4, 25-30.	0.9	14
79	Preparation, characterization and CO sensing of Au/iron oxide thin films. <i>Journal of Materials Science: Materials in Electronics</i> , 2002, 13, 561-565.	2.2	13
80	CRYOGENIC HEMT NOISE MODELING BY ARTIFICIAL NEURAL NETWORKS. <i>Fluctuation and Noise Letters</i> , 2005, 05, L423-L433.	1.5	13
81	Photosensitive heterojunctions of silicon coated with sol-gel derived TiO ₂ dispersed in poly(3,4-ethylendi oxythiophene)/poly(styrenesulfonate). <i>Journal of Sol-Gel Science and Technology</i> , 2007, 43, 41-46.	2.4	13
82	Sb-SnO ₂ -Nanosized-Based Resistive Sensors for NO ₂ Detection. <i>Journal of Sensors</i> , 2009, 2009, 1-7.	1.1	13
83	Development of Gas Sensors on Microstrip Disk Resonators. <i>Procedia Engineering</i> , 2014, 87, 1083-1086.	1.2	13
84	Advanced Simulation of Semiconductor Devices by Artificial Neural Networks. <i>Journal of Computational Electronics</i> , 2003, 2, 301-307.	2.5	12
85	A neural network approach for compact cryogenic modelling of HEMTs. <i>International Journal of Electronics</i> , 2007, 94, 877-887.	1.4	12
86	Resonant Devices and Gas Sensing: from Low Frequencies to Microwave Range. , 2019, , .		12
87	A Novel Low-Complexity Frequency Estimation Algorithm for Industrial Internet-of-Things Applications. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2021, 70, 1-10.	4.7	12
88	On the Performance Evaluation of Commercial SAW Resonators by Means of a Direct and Reliable Equivalent-Circuit Extraction. <i>Micromachines</i> , 2021, 12, 303.	2.9	12
89	Performance enhancement of wearable instrumentation for AR-based SSVEP BCI. <i>Measurement: Journal of the International Measurement Confederation</i> , 2022, 196, 111188.	5.0	12
90	A dirhodium(ii,ii) complex as a highly selective molecular material for ammonia detection: QCM studies. <i>Journal of Materials Chemistry</i> , 2011, 21, 18034.	6.7	11

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91	CO sensing devices based on indium oxide nanoparticles prepared by laser ablation in water. Thin Solid Films, 2011, 520, 922-926.	1.8	11
92	E-nose Development for Safety Monitoring Applications in Refinery Environment. Procedia Engineering, 2012, 47, 1267-1270.	1.2	11
93	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
94	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
95	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
96	A novel low-complex and low-memory method for accurate single-tone frequency estimation. , 2010, , .		10
97	Electrochemical sensing of ascorbic acid by a novel manganese(III) complex. Materials Letters, 2014, 133, 232-235.	2.6	10
98	Ink-Jet Printed Colorimetric Sensor for the Determination of Fe(II). IEEE Sensors Journal, 2015, 15, 3196-3200.	4.7	10
99	Nb ₂ O ₅ thin film-based conductometric sensor for acetone monitoring. , 2019, , .		10
100	A new frequency estimation algorithm for IIoT applications and low-cost instrumentation. , 2020, , .		10
101	Effects of UV Irradiation on the Sensing Properties of In ₂ O ₃ for CO Detection at Low Temperature. Micromachines, 2019, 10, 338.	2.9	9
102	Sensor-Integrated Aperture Coupled Patch Antenna. , 2019, , .		9
103	High Sensitive and Selective Minisensor for Acetone Monitoring. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 3308-3316.	4.7	9
104	On the design and characterisation of a microwave microstrip resonator for gas sensing applications. Acta IMEKO (2012), 2021, 10, 54.	0.7	9
105	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
106	Temperature-dependent noise characterization and modeling of on-wafer microwave transistors. Microelectronics Reliability, 2002, 42, 361-366.	1.7	8
107	Development of a SOLT Calibration Setup for SAW Sensor Characterization. Lecture Notes in Electrical Engineering, 2012, , 265-269.	0.4	8
108	Characterization techniques for temperature-dependent experimental analysis of microwave transistors. IEEE Transactions on Instrumentation and Measurement, 2003, 52, 85-91.	4.7	7

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109	Microwave characterization and modeling of packaged HEMTs by a direct extraction procedure at cryogenic temperatures. , 0, , .		7
110	Investigation of Permeation Tubes for Temperature-Compensated Gas-Sensor Calibrators. IEEE Sensors Journal, 2006, 6, 1120-1125.	4.7	7
111	A ballistocardiogram acquisition system for respiration and heart rate monitoring. , 2018, , .		7
112	Microwave Transducers for Gas Sensing: A Challenging and Promising New Frontier. IEEE Instrumentation and Measurement Magazine, 2022, 25, 42-51.	1.6	7
113	A robust approach for the direct extraction of HEMT circuit elements vs. bias and temperature. , 0, , .		6
114	A neural network approach for safety monitoring applications. , 2016, , .		6
115	Quantitative assessment of Parkinsonian tremor by using biosensor device. Medicine (United States), 2019, 98, e17897.	1.0	6
116	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
117	Performance and Usability Evaluation of an Extended Reality Platform to Monitor Patientâ€™s Health during Surgical Procedures. Sensors, 2022, 22, 3908.	3.8	6
118	Impact of the self-generated heat on the scalability of HEMTs. Microelectronic Engineering, 2005, 82, 143-147.	2.4	5
119	High Performance Flame-Made Ultraporous ZnO-Based QCM Sensor For Acetaldehyde. , 2019, , .		5
120	Ethanol breath measuring system. , 2020, , .		5
121	Artificial Neural Network Modeling of Interdigital Capacitor Sensor for Oxygen Detection. , 2020, , .		5
122	Cryogenic Electrical Characterization and Equivalent-Circuit Modeling of SAW Resonators. , 2020, , .		5
123	An Efficient Near-lossless Compression Algorithm for Multichannel EEG signals. , 2021, , .		5
124	CNT/Al ₂ O ₃ core-shell nanostructures for the electrochemical detection of dihydroxybenzene isomers. Physical Chemistry Chemical Physics, 2021, 23, 14064-14074.	2.8	5
125	A Simple and Efficient Near-lossless Compression Algorithm for Multichannel EEG Systems. , 2021, , .		5
126	Design and Characterization of a Microwave Transducer for Gas Sensing Applications. Chemosensors, 2022, 10, 127.	3.6	5

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127	Ventilation control for improved cabin air quality and vehicle safety. , 0, , .		4
128	All-organic electrochemical devices based on a tetracyanoquinodimethane complex. Solid-State Electronics, 2007, 51, 639-643.	1.4	4
129	Novel sensing materials for breath analysis devices. , 2010, 2010, 670-3.		4
130	MOx/CNTs Hetero-Structures for Gas Sensing Applications: Role of CNTs Defects. Procedia Engineering, 2012, 47, 1259-1262.	1.2	4
131	Fast and selective detection of volatile organic compounds using a novel pseudo spin-ladder compound CaCu_2O_3 . Materials Advances, 2020, 1, 2368-2379.	5.4	4
132	On the Gas Sensing Properties of Microwave Transducers. , 2020, , .		4
133	Design and Performance Evaluation of a "Fixed-Point" Spar Buoy Equipped with a Piezoelectric Energy Harvesting Unit for Floating Near-Shore Applications. Sensors, 2021, 21, 1912.	3.8	4
134	Development of a multi-transduction system for breath analysis in neurodegenerative diseases. , 2021, , .		4
135	Sensing Properties of SnO_2/CNFs Hetero-Junctions. Lecture Notes in Electrical Engineering, 2012, , 105-108.	0.4	4
136	Equivalent Circuit Model Extraction for a SAW Resonator: Below and above Room Temperature. Sensors, 2022, 22, 2546.	3.8	4
137	Preparation and optical characterization of photosensitive multilayered structures based on polythiophenes and tetracyanoquinodimethane. Microelectronics Journal, 2006, 37, 1384-1388.	2.0	3
138	Electrical characterization of solid-state heterojunctions between PEDOT:PSS and an anionic polyelectrolyte. Microelectronics Journal, 2007, 38, 678-681.	2.0	3
139	Ag-doped nanostructured materials for electrochemical sensors. , 2015, , .		3
140	Thermo-mechanical and physical characterization of polyolefin based films for photovoltaic cells. AIP Conference Proceedings, 2018, , .	0.4	3
141	An Experimental Evaluation of CRT-based Forwarding Technique. , 2019, , .		3
142	Development of a MnO_2 -Modified Screen-Printed Electrode for Phenol Monitoring. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-9.	4.7	3
143	Development of an Inkjet-Printed Interdigitated Device: CAD, Fabrication, and Testing. , 2021, , .		3
144	A NEW TECHNIQUE FOR EXTRACTING THE MOSFET THRESHOLD VOLTAGE USING NOISE MEASUREMENTS. Fluctuation and Noise Letters, 2004, 04, L643-L649.	1.5	2

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145	Ultra sensitive low temperature metal oxide gas sensors. , 0, , .		2
146	Simulating Noise Performance of Advanced Devices down to Cryogenic Temperatures. AIP Conference Proceedings, 2005, , .	0.4	2
147	On the Development and Characterization of PMA-based SAW Sensing Devices. Procedia Engineering, 2012, 47, 1271-1274.	1.2	2
148	New Sensing Model of (Mesoporous) In2O3. Springer Series on Chemical Sensors and Biosensors, 2013, , 175-211.	0.5	2
149	Optical, electrical and sensing properties of ZnO nanoparticles synthesized by sol-gel technique. , 2014, , .		2
150	Microstructural, Electrical and Hydrogen Sensing Properties of F-SnO2 Nanoparticles. Procedia Engineering, 2014, 87, 1087-1090.	1.2	2
151	Development of a high performance oxygen sensor operating at room temperature. , 2018, , .		2
152	Cryogenic Characterization of SAW Resonators. , 2019, , .		2
153	Design and fabrication of a SiO/sub 2//ST-cut quartz Love mode surface acoustic wave transducer for operation in liquid media. , 0, , .		1
154	Electrical characterization and modeling of thin-film humidity sensors. , 0, , .		1
155	Layered SAW nitrogen dioxide sensor based on a ZnO/ 36Å° YX LiTaO/sub 3/ structure with WO3 selective layer. , 0, , .		1
156	Temperature-independent permeation tubes for gas sensor calibrators. , 0, , .		1
157	Two Computational Approaches for Noise Modeling of Advanced Microwave Transistors. , 2007, , .		1
158	Carbonyl sulphide (COS) monitoring on MOS sensors for biomedical applications. , 2007, , .		1
159	Development of a self-calibrating hydrogen leak sensor. , 2008, , .		1
160	Mesoporous In2O3: Photoreduction and Gas-Sensing Properties. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2012, 638, 1563-1563.	1.2	1
161	Development of doped ZnO nanoparticles for gas sensing application. , 2014, , .		1
162	Sensing Behavior of SnO2-Graphene Nanocomposites. Lecture Notes in Electrical Engineering, 2014, , 417-420.	0.4	1

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163	On paper colorimetric sensor for ascorbic acid detection. , 2015, , .		1
164	Characterization and Ammonia Sensing Properties of 2D SnS ₂ /SnO ₂ âˆ™x Flakes-Based Films. Proceedings (mdpi), 2017, 1, 327.	0.2	1
165	Nanostructured MnO ₂ for phenolic compounds degradation and monitoring. , 2018, , .		1
166	CO and CO ₂ sensing by Al-Mg-ZnO based conductometric sensor. , 2020, , .		1
167	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
168	Samarium Oxide as a Novel Sensing Material for Acetone and Ethanol. Lecture Notes in Electrical Engineering, 2019, , 83-87.	0.4	1
169	Compact System for Colorimetric Sensor Arrays Characterization Based on Computer Screen Photo-Assisted Technology. Electronics (Switzerland), 2021, 10, 2587.	3.1	1
170	Correlation Between Structural and Sensing Properties of Carbon Nanotube-Based Devices. Lecture Notes in Electrical Engineering, 2015, , 207-210.	0.4	1
171	A ML-based Approach to Enhance Metrological Performance of Wearable Brain-Computer Interfaces. , 2022, , .		1
172	Gas sensing applications of novel semiconductor materials. , 0, , .		0
173	An equivalent circuit for simulating Love mode acoustic wave transducers: comparison of simulation and experimental results. , 0, , .		0
174	Selective NO ₂ gas sensing characteristics of sol-gel prepared MoO ₃ -WO ₃ thin films. , 0, , .		0
175	A ZnO/SiO ₂ /Si[100] Love mode transducer. , 0, , .		0
176	Microstructural characterization of sol-gel derived Ga ₂ O ₃ -TiO ₂ thin films for gas sensing. , 0, , .		0
177	Structure and properties of TiO ₂ :Fe thin films prepared by the sol-gel technique. , 0, , .		0
178	A layered structure surface acoustic wave for oxygen sensing. , 0, , .		0
179	Polycrystalline and amorphous sol-gel derived WO ₃ thin films and their gas sensing properties. , 0, , .		0
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