

# Pietro A Siciliano

## List of Publications by Citations

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308  
papers

7,647  
citations

48  
h-index

70  
g-index

335  
ext. papers

8,315  
ext. citations

5.2  
avg, IF

5.63  
L-index

#	Paper	IF	Citations
308	Sensing characteristics of NiO thin films as NO <sub>2</sub> gas sensor. <i>Thin Solid Films</i> , <b>2002</b> , 418, 9-15	2.2	204
307	Flexible thermoelectric generator for ambient assisted living wearable biometric sensors. <i>Journal of Power Sources</i> , <b>2011</b> , 196, 3239-3243	8.9	197
306	The Role of Surface Oxygen Vacancies in the NO <sub>2</sub> Sensing Properties of SnO <sub>2</sub> Nanocrystals. <i>Journal of Physical Chemistry C</i> , <b>2008</b> , 112, 19540-19546	3.8	154
305	TiO <sub>2</sub> nanowires array fabrication and gas sensing properties. <i>Sensors and Actuators B: Chemical</i> , <b>2008</b> , 130, 70-76	8.5	129
304	On the study of feature extraction methods for an electronic nose. <i>Sensors and Actuators B: Chemical</i> , <b>2002</b> , 87, 274-288	8.5	129
303	Nanostructured In <sub>2</sub> O <sub>3</sub> /SnO <sub>2</sub> sol-gel thin film as material for NO <sub>2</sub> detection. <i>Sensors and Actuators B: Chemical</i> , <b>2006</b> , 114, 646-655	8.5	111
302	Polycrystalline Well-Shaped Blocks of Indium Oxide Obtained by the Sol-Gel Method and Their Gas-Sensing Properties. <i>Chemistry of Materials</i> , <b>2003</b> , 15, 4377-4383	9.6	109
301	CO and NO <sub>2</sub> sensing properties of doped-Fe <sub>2</sub> O <sub>3</sub> thin films prepared by LPD. <i>Sensors and Actuators B: Chemical</i> , <b>2002</b> , 82, 40-47	8.5	108
300	Enhancement of H <sub>2</sub> sensing properties of NiO-based thin films with a Pt surface modification. <i>Sensors and Actuators B: Chemical</i> , <b>2004</b> , 103, 300-311	8.5	106
299	Synthesis, electrical characterization, and gas sensing properties of molybdenum oxide nanorods. <i>Applied Physics Letters</i> , <b>2006</b> , 88, 152111	3.4	105
298	Ambient pressure synthesis of corundum-type IN <sub>2</sub> O <sub>3</sub> . <i>Journal of the American Chemical Society</i> , <b>2004</b> , 126, 4078-9	16.4	101
297	Support vector machines for olfactory signals recognition. <i>Sensors and Actuators B: Chemical</i> , <b>2003</b> , 88, 30-39	8.5	99
296	The influences of preparation parameters on NiO thin film properties for gas-sensing application. <i>Sensors and Actuators B: Chemical</i> , <b>2001</b> , 78, 126-132	8.5	96
295	Synthesis and gas sensing properties of ZnO quantum dots. <i>Sensors and Actuators B: Chemical</i> , <b>2010</b> , 146, 111-115	8.5	94
294	Preparation, characterisation and applications of thin films for gas sensors prepared by cheap chemical method. <i>Sensors and Actuators B: Chemical</i> , <b>2000</b> , 70, 153-164	8.5	93
293	Nanocrystalline Metal Oxides from the Injection of Metal Oxide Sols in Coordinating Solutions: Synthesis, Characterization, Thermal Stabilization, Device Processing, and Gas-Sensing Properties. <i>Advanced Functional Materials</i> , <b>2006</b> , 16, 1488-1498	15.6	87
292	Methanol gas-sensing properties of CeO <sub>2</sub> /Fe <sub>2</sub> O <sub>3</sub> thin films. <i>Sensors and Actuators B: Chemical</i> , <b>2006</b> , 114, 687-695	8.5	87

291	Drift counteraction with multiple self-organising maps for an electronic nose. <i>Sensors and Actuators B: Chemical</i> , <b>2004</b> , 98, 305-317	8.5	86
290	DNA arrays, electronic noses and tongues, biosensors and receptors for rapid detection of toxigenic fungi and mycotoxins: a review. <i>Food Additives and Contaminants</i> , <b>2005</b> , 22, 335-44		82
289	Gas Sensitivity Measurements on NO <sub>2</sub> Sensors Based on Copper(II) Tetrakis(n-butylaminocarbonyl)phthalocyanine LB Films. <i>Langmuir</i> , <b>1999</b> , 15, 1748-1753	4	81
288	Langmuir-Blodgett Multilayers Based on Copper Phthalocyanine as Gas Sensor Materials: Active Layer Gas Interaction Model and Conductivity Modulation. <i>Langmuir</i> , <b>1997</b> , 13, 6562-6567	4	77
287	Monitoring of rancidity of milk by means of an electronic nose and a dynamic PCA analysis. <i>Sensors and Actuators B: Chemical</i> , <b>2001</b> , 78, 174-179	8.5	75
286	Properties of vanadium oxide thin films for ethanol sensor. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , <b>1997</b> , 15, 34-38	2.9	72
285	Conducting polymers doped with metallic inclusions: New materials for gas sensors. <i>Sensors and Actuators B: Chemical</i> , <b>1998</b> , 48, 362-367	8.5	70
284	Spin-coated thin films of metal porphyrin-phthalocyanine blend for an optochemical sensor of alcohol vapours. <i>Sensors and Actuators B: Chemical</i> , <b>2004</b> , 100, 88-93	8.5	70
283	Optical Absorption of Tellurium Suboxide Thin Films. <i>Physica Status Solidi A</i> , <b>1993</b> , 136, K101-K104		70
282	Solvothermal, chloroalkoxide-based synthesis of monoclinic WO <sub>3</sub> quantum dots and gas-sensing enhancement by surface oxygen vacancies. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2014</b> , 6, 16808-16	9.5	69
281	An active vision system for fall detection and posture recognition in elderly healthcare <b>2010</b> ,		69
280	Surface plasmon resonance imaging of DNA based biosensors for potential applications in food analysis. <i>Biosensors and Bioelectronics</i> , <b>2005</b> , 21, 894-900	11.8	69
279	Analysis of vapours and foods by means of an electronic nose based on a sol-gel metal oxide sensors array. <i>Sensors and Actuators B: Chemical</i> , <b>2000</b> , 69, 230-235	8.5	65
278	CO sensing properties of SnO <sub>2</sub> thin films prepared by the sol-gel process. <i>Thin Solid Films</i> , <b>1997</b> , 304, 339-343	2.2	64
277	A novel gas sensor based on SnO <sub>2</sub> /Os thin film for the detection of methane at low temperature. <i>Sensors and Actuators B: Chemical</i> , <b>1999</b> , 58, 350-355	8.5	63
276	Synthesis and Gas-Sensing Properties of Pd-Doped SnO <sub>2</sub> Nanocrystals. A Case Study of a General Methodology for Doping Metal Oxide Nanocrystals. <i>Crystal Growth and Design</i> , <b>2008</b> , 8, 1774-1778	3.5	61
275	Preparation and characterization of cobalt porphyrin modified tin dioxide films for sensor applications. <i>Sensors and Actuators B: Chemical</i> , <b>2004</b> , 103, 339-343	8.5	60
274	Fe <sub>3</sub> O <sub>4</sub> /Fe <sub>2</sub> O <sub>3</sub> nanoparticle multilayers deposited by the Langmuir-Blodgett technique for gas sensors application. <i>Langmuir</i> , <b>2014</b> , 30, 1190-7	4	59

273	Aroma analysis by GC/MS and electronic nose dedicated to Negroamaro and Primitivo typical Italian Apulian wines. <i>Sensors and Actuators B: Chemical</i> , <b>2013</b> , 179, 259-269	8.5	59
272	Synthesis of SnO <sub>2</sub> and ZnO Colloidal Nanocrystals from the Decomposition of Tin(II) 2-Ethylhexanoate and Zinc(II) 2-Ethylhexanoate. <i>Chemistry of Materials</i> , <b>2005</b> , 17, 6468-6472	9.6	59
271	Moisture influence and geometry effect of Au and Pt electrodes on CO sensing response of SnO <sub>2</sub> microsensors based on sol-gel thin film. <i>Sensors and Actuators B: Chemical</i> , <b>2001</b> , 77, 503-511	8.5	59
270	Automotive application of sol-gel TiO <sub>2</sub> thin film-based sensor for lambda measurement. <i>Sensors and Actuators B: Chemical</i> , <b>2003</b> , 95, 66-72	8.5	56
269	A Radar-Based Smart Sensor for Unobtrusive Elderly Monitoring in Ambient Assisted Living Applications. <i>Biosensors</i> , <b>2017</b> , 7,	5.9	55
268	Tin oxide-based gas sensors prepared by the sol-gel process. <i>Sensors and Actuators B: Chemical</i> , <b>1997</b> , 44, 462-467	8.5	55
267	TiO <sub>2</sub> thin films from titanium butoxide: Synthesis, Pt addition, structural stability, microelectronic processing and gas-sensing properties. <i>Sensors and Actuators B: Chemical</i> , <b>2008</b> , 130, 599-608	8.5	55
266	Optical absorption and photoconductivity in amorphous indium selenide thin films. <i>Thin Solid Films</i> , <b>1987</b> , 148, 273-278	2.2	55
265	Detecting falls with 3D range camera in ambient assisted living applications: a preliminary study. <i>Medical Engineering and Physics</i> , <b>2011</b> , 33, 770-81	2.4	54
264	Sol-gel Processing and Characterization of Pure and Metal-Doped SnO <sub>2</sub> Thin Films. <i>Journal of the American Ceramic Society</i> , <b>2001</b> , 84, 48-54	3.8	52
263	NO <sub>2</sub> -gas-sensing properties of mixed In <sub>2</sub> O <sub>3</sub> /SnO <sub>2</sub> thin films. <i>Thin Solid Films</i> , <b>2005</b> , 490, 68-73	2.2	50
262	Analytical characterisation of Negroamaro red wines by "Aroma Wheels". <i>Food Chemistry</i> , <b>2013</b> , 141, 2906-15	8.5	49
261	Synthesis and Characterization of MoO <sub>3</sub> Thin Films and Powders from a Molybdenum Chloromethoxide. <i>Chemistry of Materials</i> , <b>2004</b> , 16, 5495-5501	9.6	49
260	People occupancy detection and profiling with 3D depth sensors for building energy management. <i>Energy and Buildings</i> , <b>2015</b> , 92, 246-266	7	47
259	Optochemical vapour detection using spin coated thin film of ZnTPP. <i>Sensors and Actuators B: Chemical</i> , <b>2006</b> , 115, 12-16	8.5	46
258	Libraries of cluster-assembled titania films for chemical sensing. <i>Applied Physics Letters</i> , <b>2005</b> , 87, 103108	9.4	44
257	Optochemical vapour detection using spin coated thin films of metal substituted phthalocyanines. <i>Sensors and Actuators B: Chemical</i> , <b>2003</b> , 89, 86-91	8.5	44
256	Air quality monitoring by means of sol-gel integrated tin oxide thin films. <i>Sensors and Actuators B: Chemical</i> , <b>1999</b> , 58, 283-288	8.5	44

255	Investigation on alcohol vapours/TiO <sub>2</sub> nanocrystal thin films interaction by SPR technique for sensing application. <i>Sensors and Actuators B: Chemical</i> , <b>2004</b> , 100, 75-80	8.5	43
254	Sprayed SnO <sub>2</sub> thin films for NO <sub>2</sub> sensors. <i>Sensors and Actuators B: Chemical</i> , <b>1999</b> , 58, 370-374	8.5	42
253	Variation in the Optical Sensing Responses toward Vapors of a Porphyrin/Phthalocyanine Hybrid Thin Film. <i>Chemistry of Materials</i> , <b>2004</b> , 16, 2083-2090	9.6	41
252	Metallophthalocyanines thin films in array configuration for electronic optical nose applications. <i>Sensors and Actuators B: Chemical</i> , <b>2003</b> , 96, 489-497	8.5	41
251	A comparison between V <sub>2</sub> O <sub>5</sub> and WO <sub>3</sub> thin films as sensitive elements for NO detection. <i>Thin Solid Films</i> , <b>1999</b> , 350, 264-268	2.2	41
250	Modelling, fabrication and experimental testing of an heat sink free wearable thermoelectric generator. <i>Energy Conversion and Management</i> , <b>2017</b> , 145, 204-213	10.6	40
249	Volatile components of Negroamaro red wines produced in Apulian Salento area. <i>Food Chemistry</i> , <b>2012</b> , 132, 2155-2164	8.5	40
248	PDMS/Kapton interface plasma treatment effects on the polymeric package for a wearable thermoelectric generator. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2013</b> , 5, 6586-90	9.5	39
247	Analysis of CO and CH <sub>4</sub> gas mixtures by using a micromachined sensor array. <i>Sensors and Actuators B: Chemical</i> , <b>2001</b> , 78, 40-48	8.5	39
246	SnO <sub>2</sub> thin films for gas sensor prepared by r.f. reactive sputtering. <i>Sensors and Actuators B: Chemical</i> , <b>1995</b> , 25, 465-468	8.5	39
245	Analysis of single-cultivar extra virgin olive oils by means of an Electronic Nose and HS-SPME/GC/MS methods. <i>Sensors and Actuators B: Chemical</i> , <b>2006</b> , 114, 674-680	8.5	38
244	Solid State Gas Sensors: State of the Art and Future Activities. <i>ChemInform</i> , <b>2004</b> , 35, no		38
243	Fabrication at wafer level of miniaturized gas sensors based on SnO <sub>2</sub> nanorods deposited by PECVD and gas sensing characteristics. <i>Sensors and Actuators B: Chemical</i> , <b>2011</b> , 154, 283-287	8.5	37
242	Nanocrystals as Very Active Interfaces: Ultrasensitive Room-Temperature Ozone Sensors with In <sub>2</sub> O <sub>3</sub> Nanocrystals Prepared by a Low-Temperature Sol-Gel Process in a Coordinating Environment. <i>Journal of Physical Chemistry C</i> , <b>2007</b> , 111, 13967-13971	3.8	37
241	Structural distinctions of Fe <sub>2</sub> O <sub>3</sub> /TiO <sub>2</sub> composites obtained by various sol-gel procedures, and their gas-sensing features. <i>Sensors and Actuators B: Chemical</i> , <b>2007</b> , 124, 133-142	8.5	37
240	Development of silicon-based potentiometric sensors: Towards a miniaturized electronic tongue. <i>Sensors and Actuators B: Chemical</i> , <b>2007</b> , 123, 191-197	8.5	37
239	Microstructural characterization of MoO <sub>3</sub> /TiO <sub>2</sub> nanocomposite thin films for gas sensing. <i>Sensors and Actuators B: Chemical</i> , <b>2001</b> , 77, 27-34	8.5	37
238	Effects of thermal annealing on optical absorption of amorphous indium selenide thin films. <i>Solar Energy Materials and Solar Cells</i> , <b>1987</b> , 15, 209-218		37

237	Towards enhanced performances in gas sensing: SnO <sub>2</sub> based nanocrystalline oxides application. <i>Sensors and Actuators B: Chemical</i> , <b>2007</b> , 122, 564-571	8.5	36
236	In <sub>2</sub> O <sub>3</sub> Thin Films Obtained Through a Chemical Complexation Based Sol-Gel Process and Their Application as Gas Sensor Devices. <i>Journal of Sol-Gel Science and Technology</i> , <b>2003</b> , 26, 741-744	2.3	36
235	Gas sensing measurements and analysis of the optical properties of poly[3-(butylthio)thiophene] Langmuir-Blodgett films. <i>Sensors and Actuators B: Chemical</i> , <b>2000</b> , 68, 203-209	8.5	36
234	Supervised machine learning scheme for electromyography-based pre-fall detection system. <i>Expert Systems With Applications</i> , <b>2018</b> , 100, 95-105	7.8	35
233	NO <sub>2</sub> gas detection by Langmuir-Blodgett films of copper phthalocyanine multilayer structures. <i>Supramolecular Science</i> , <b>1997</b> , 4, 461-464		35
232	IEEE1451.4: A way to standardize gas sensor. <i>Sensors and Actuators B: Chemical</i> , <b>2006</b> , 114, 141-151	8.5	35
231	Effects of NO <sub>2</sub> oxidizing gas on a novel phthalocyanine Langmuir-Blodgett thin film. <i>Thin Solid Films</i> , <b>1996</b> , 286, 256-258	2.2	35
230	Supervised Expert System for Wearable MEMS Accelerometer-Based Fall Detector. <i>Journal of Sensors</i> , <b>2013</b> , 2013, 1-11	2	34
229	Chloro-Alkoxide Route to Transition Metal Oxides. Synthesis of WO <sub>3</sub> Thin Films and Powders from a Tungsten Chloro-Methoxide. <i>Chemistry of Materials</i> , <b>2009</b> , 21, 5215-5221	9.6	34
228	Linear temperature microhotplate gas sensor array for automotive cabin air quality monitoring. <i>Sensors and Actuators B: Chemical</i> , <b>2008</b> , 134, 660-665	8.5	34
227	Solution Synthesis of Thin Films in the SnO <sub>2</sub> /In <sub>2</sub> O <sub>3</sub> System: A Case Study of the Mixing of Sol-Gel and Metal-Organic Solution Processes. <i>Chemistry of Materials</i> , <b>2006</b> , 18, 840-846	9.6	33
226	Sol-gel derived pure and palladium activated tin oxide films for gas-sensing applications. <i>Sensors and Actuators B: Chemical</i> , <b>1999</b> , 55, 134-139	8.5	33
225	Chemical synthesis of In <sub>2</sub> O <sub>3</sub> nanocrystals and their application in highly performing ozone-sensing devices. <i>Sensors and Actuators B: Chemical</i> , <b>2008</b> , 130, 483-487	8.5	32
224	A portable integrated wide-range gas sensing system with smart A/D front-end. <i>Sensors and Actuators B: Chemical</i> , <b>2008</b> , 130, 164-174	8.5	31
223	Quantitative and qualitative analysis of VOCs mixtures by means of a microsenors array and different evaluation methods. <i>Sensors and Actuators B: Chemical</i> , <b>2003</b> , 93, 117-125	8.5	31
222	Chromatographic analysis of VOC patterns in exhaled breath from smokers and nonsmokers. <i>Biomedical Chromatography</i> , <b>2018</b> , 32, e4132	1.7	31
221	Colloidal Counterpart of the TiO <sub>2</sub> -Supported V <sub>2</sub> O <sub>5</sub> System: A Case Study of Oxide-on-Oxide Deposition by Wet Chemical Techniques. Synthesis, Vanadium Speciation, and Gas-Sensing Enhancement. <i>Journal of Physical Chemistry C</i> , <b>2013</b> , 117, 20697-20705	3.8	30
220	Combustion conditions discrimination properties of Pt-doped TiO <sub>2</sub> thin film oxygen sensor. <i>Sensors and Actuators B: Chemical</i> , <b>2007</b> , 123, 516-521	8.5	30

219	Response evaluation of an E-nose towards contaminated wheat by Fusarium poae fungi. <i>Sensors and Actuators B: Chemical</i> , <b>2006</b> , 118, 433-438	8.5	30
218	Tests in controlled atmosphere on new optical gas sensing layers based on TiO <sub>2</sub> /metal-phthalocyanines hybrid system. <i>Materials Science and Engineering C</i> , <b>2002</b> , 22, 439-443	8.3	30
217	Photoelectronic and optical properties of amorphous gallium-selenide thin films. <i>Journal of Applied Physics</i> , <b>1987</b> , 62, 4231-4235	2.5	30
216	Capacitive RF MEMS Switches With Tantalum-Based Materials. <i>Journal of Microelectromechanical Systems</i> , <b>2011</b> , 20, 365-370	2.5	29
215	Micrometric patterning process of sol-gel SnO <sub>2</sub> , In <sub>2</sub> O <sub>3</sub> and WO <sub>3</sub> thin film for gas sensing applications: Towards silicon technology integration. <i>Sensors and Actuators B: Chemical</i> , <b>2006</b> , 119, 159-168	8.5	29
214	Innovative aspects in thin film technologies for nanostructured materials in gas sensor devices. <i>Thin Solid Films</i> , <b>2003</b> , 436, 52-63	2.2	29
213	SnO <sub>2</sub> sol-gel derived thin films for integrated gas sensors. <i>Sensors and Actuators B: Chemical</i> , <b>2001</b> , 77, 496-502	8.5	29
212	Palladium/Fe <sub>2</sub> O <sub>3</sub> nanoparticle mixtures for acetone and NO <sub>2</sub> gas sensors. <i>Sensors and Actuators B: Chemical</i> , <b>2017</b> , 243, 895-903	8.5	27
211	Human posture recognition with a time-of-flight 3D sensor for in-home applications. <i>Expert Systems With Applications</i> , <b>2013</b> , 40, 744-751	7.8	27
210	Metal oxide gas sensor array for the detection of diesel fuel in engine oil. <i>Sensors and Actuators B: Chemical</i> , <b>2008</b> , 131, 125-133	8.5	27
209	Top-down contact lithography fabrication of a TiO <sub>2</sub> nanowire array over a SiO <sub>2</sub> mesa. <i>Nanotechnology</i> , <b>2006</b> , 17, 3761-3767	3.4	27
208	Recognition of olive oils by means of an integrated sol-gel SnO <sub>2</sub> Electronic Nose. <i>Thin Solid Films</i> , <b>2002</b> , 418, 59-65	2.2	27
207	Comparison and integration of arrays of quartz resonators and metal-oxide semiconductor chemoresistors in the quality evaluation of olive oils. <i>Sensors and Actuators B: Chemical</i> , <b>2001</b> , 78, 303-309	8.5	27
206	A study of physical properties and gas-surface interaction of vanadium oxide thin films. <i>Thin Solid Films</i> , <b>1999</b> , 349, 254-259	2.2	27
205	Acetone sensors based on TiO <sub>2</sub> nanocrystals modified with tungsten oxide species. <i>Journal of Alloys and Compounds</i> , <b>2016</b> , 665, 345-351	5.7	25
204	Pt doping triggers growth of TiO <sub>2</sub> nanorods: nanocomposite synthesis and gas-sensing properties. <i>CrystEngComm</i> , <b>2012</b> , 14, 3882	3.3	25
203	UV-Vis absorption optosensing materials based on metallophthalocyanines thin films. <i>Sensors and Actuators B: Chemical</i> , <b>2004</b> , 100, 135-138	8.5	25
202	CO sensing characteristics of reactively sputtered SnO <sub>2</sub> thin films prepared under different oxygen partial pressure values. <i>Vacuum</i> , <b>1996</b> , 47, 1175-1177	3.7	25

201	Surface plasmon resonance imaging technique for nucleic acid detection. <i>Sensors and Actuators B: Chemical</i> , <b>2008</b> , 130, 82-87	8.5	24
200	Fluxgate magnetic sensor and front-end circuitry in an integrated microsystem. <i>Sensors and Actuators A: Physical</i> , <b>2006</b> , 132, 90-97	3.9	24
199	Liquid phase SPR imaging experiments for biosensors applications. <i>Biosensors and Bioelectronics</i> , <b>2004</b> , 20, 1140-8	11.8	24
198	On the electrostatic actuation of capacitive RF MEMS switches on GaAs substrate. <i>Sensors and Actuators A: Physical</i> , <b>2015</b> , 232, 202-207	3.9	23
197	Improving holographic reconstruction by automatic Butterworth filtering for microelectromechanical systems characterization. <i>Applied Optics</i> , <b>2015</b> , 54, 3428-32	0.2	23
196	Flexible thermoelectric generator for wearable biometric sensors <b>2010</b> ,		23
195	Recovery of drifting sensor responses by means of DWT analysis. <i>Sensors and Actuators B: Chemical</i> , <b>2007</b> , 120, 411-416	8.5	23
194	Response evaluation of TiO <sub>2</sub> sensor to flue gas on spark ignition engine and in controlled environment. <i>Sensors and Actuators B: Chemical</i> , <b>2005</b> , 107, 563-571	8.5	23
193	Preparation and characterization of Langmuir-Blodgett films containing fullerene. <i>Thin Solid Films</i> , <b>1994</b> , 243, 367-370	2.2	23
192	Oxide nanopowders from the low-temperature processing of metal oxide sols and their application as gas-sensing materials. <i>Sensors and Actuators B: Chemical</i> , <b>2006</b> , 118, 105-109	8.5	22
191	A WO <sub>3</sub> -based gas sensor array with linear temperature gradient for wine quality monitoring. <i>Sensors and Actuators B: Chemical</i> , <b>2006</b> , 117, 115-122	8.5	22
190	A study of the catalytic activity and sensitivity to different alcohols of CeO <sub>2</sub> /Fe <sub>2</sub> O <sub>3</sub> thin films. <i>Sensors and Actuators B: Chemical</i> , <b>2005</b> , 111-112, 78-83	8.5	22
189	Surface modification of TiO <sub>2</sub> nanocrystals by WO(x) coating or wrapping: solvothermal synthesis and enhanced surface chemistry. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 6898-908	9.5	21
188	A hardware-software framework for high-reliability people fall detection <b>2008</b> ,		21
187	Titanium dioxide thin films prepared by seeded supersonic beams for gas sensing applications. <i>Sensors and Actuators B: Chemical</i> , <b>2004</b> , 100, 177-184	8.5	21
186	Nanostructured TiO <sub>2</sub> thin films prepared by supersonic beams and their application in a sensor array for the discrimination of VOC. <i>Sensors and Actuators B: Chemical</i> , <b>2003</b> , 92, 292-302	8.5	21
185	A powerful method for feature extraction and compression of electronic nose responses. <i>Sensors and Actuators B: Chemical</i> , <b>2005</b> , 105, 378-392	8.5	21
184	Odor discrimination using adaptive resonance theory. <i>Sensors and Actuators B: Chemical</i> , <b>2000</b> , 69, 248-252		21



183	Influence of design and fabrication on RF performance of capacitive RF MEMS switches. <i>Microsystem Technologies</i> , <b>2016</b> , 22, 1741-1746	1.7	21
182	Investigation of electronic properties of gallium sulfide single crystals grown by iodine chemical transport. <i>Journal of Applied Physics</i> , <b>1990</b> , 68, 138-142	2.5	20
181	A Wearable EMG-based System Pre-fall Detector. <i>Procedia Engineering</i> , <b>2015</b> , 120, 455-458		19
180	Reliability Enhancement by Suitable Actuation Waveforms for Capacitive RF MEMS Switches in III-V Technology. <i>Journal of Microelectromechanical Systems</i> , <b>2012</b> , 21, 414-419	2.5	19
179	Role of osmium in the electrical transport mechanism of polycrystalline tin oxide thin films. <i>Applied Physics Letters</i> , <b>2004</b> , 84, 744-746	3.4	19
178	Properties of reactively sputtered tin oxide films as CO gas sensors. <i>Sensors and Actuators B: Chemical</i> , <b>1995</b> , 23, 193-195	8.5	19
177	Deep level spectroscopy in p-GaSe single crystals. <i>Journal of Applied Physics</i> , <b>1990</b> , 67, 6581-6582	2.5	19
176	Evidence of catalytic activation of anatase nanocrystals by vanadium oxide surface layer: Acetone and ethanol sensing properties. <i>Sensors and Actuators B: Chemical</i> , <b>2015</b> , 217, 193-197	8.5	18
175	A CMOS integrated interface circuit for metal-oxide gas sensors. <i>Sensors and Actuators B: Chemical</i> , <b>2009</b> , 142, 82-89	8.5	18
174	On the characterisation and gas sensing properties of Cu(II) tetra(alkylamino carbonyl) phthalocyanine LB films. <i>Thin Solid Films</i> , <b>1998</b> , 327-329, 465-468	2.2	18
173	Square and collinear four probe array and Hall measurements on metal oxide thin film gas sensors. <i>Sensors and Actuators B: Chemical</i> , <b>1998</b> , 53, 69-75	8.5	18
172	SnO <sub>2</sub> thin films from metalorganic precursors: Synthesis, characterization, microelectronic processing and gas-sensing properties. <i>Sensors and Actuators B: Chemical</i> , <b>2007</b> , 124, 217-226	8.5	18
171	Structural and electrical characterisation of molybdenum-titanium mixed oxides for ethanol sensing deposited by RF sputtering. <i>Sensors and Actuators B: Chemical</i> , <b>2003</b> , 92, 286-291	8.5	18
170	CH <sub>3</sub> SH-sensing characteristics of LaFeO <sub>3</sub> thick-film prepared by co-precipitation method. <i>Sensors and Actuators B: Chemical</i> , <b>2003</b> , 94, 197-200	8.5	18
169	Analysis of dry salami by means of an electronic nose and correlation with microbiological methods. <i>Sensors and Actuators B: Chemical</i> , <b>2003</b> , 95, 123-131	8.5	18
168	Growth of titanium dioxide films by cluster supersonic beams for VOC sensing applications. <i>IEEE Sensors Journal</i> , <b>2003</b> , 3, 199-205	4	18
167	Transport and charging mechanisms in Ta <sub>2</sub> O <sub>5</sub> thin films for capacitive RF MEMS switches application. <i>Journal of Applied Physics</i> , <b>2010</b> , 107, 114502	2.5	17
166	Optical response of plasma-deposited zinc phthalocyanine films to volatile organic compounds. <i>Sensors and Actuators B: Chemical</i> , <b>2007</b> , 127, 150-156	8.5	17

165	Influence of electrodes ageing on the properties of the gas sensors based on SnO <sub>2</sub> . <i>Sensors and Actuators B: Chemical</i> , <b>2006</b> , 115, 396-402	8.5	17
164	TiO <sub>2</sub> colloidal nanocrystals surface modification by V <sub>2</sub> O <sub>5</sub> species: Investigation by 47,49Ti MAS-NMR and H <sub>2</sub> , CO and NO <sub>2</sub> sensing properties. <i>Applied Surface Science</i> , <b>2015</b> , 351, 1169-1173	6.7	16
163	Hybrid n-TiO <sub>2</sub> -CuPc gas sensors sensitive to reducing species, synthesized by cluster and supersonic beam deposition. <i>Sensors and Actuators B: Chemical</i> , <b>2007</b> , 126, 214-220	8.5	16
162	Hybrid titania/zincphthalocyanine nanostructured multilayers with novel gas sensing properties. <i>Sensors and Actuators B: Chemical</i> , <b>2008</b> , 130, 405-410	8.5	16
161	Preparation and characterization of nanostructured materials for an artificial olfactory sensing system. <i>Sensors and Actuators B: Chemical</i> , <b>2002</b> , 84, 55-59	8.5	16
160	Application of a semiconductor sol-gel sensor array to the discrimination of pollutants in air. <i>Thin Solid Films</i> , <b>2001</b> , 391, 314-319	2.2	16
159	Investigation of the electrical properties of Cd-doped indium selenide. <i>Journal of Applied Physics</i> , <b>1991</b> , 70, 6847-6853	2.5	16
158	Role of oxygen contaminant on the physical properties of sputtered AlN thin films. <i>Journal of Alloys and Compounds</i> , <b>2015</b> , 649, 1267-1272	5.7	15
157	Investigation of the Gas-Sensing Performance of Electrospun TiO <sub>2</sub> Nanofiber-Based Sensors for Ethanol Sensing. <i>IEEE Sensors Journal</i> , <b>2018</b> , 18, 7365-7374	4	15
156	Physical properties of osmium doped tin oxide thin films. <i>Journal of Applied Physics</i> , <b>1998</b> , 83, 2369-2371	2.5	15
155	HS-SPME-GC-MS metabolomics approach for sperm quality evaluation by semen volatile organic compounds (VOCs) analysis. <i>Biomedical Physics and Engineering Express</i> , <b>2018</b> , 5, 015006	1.5	15
154	Thin film technology flexible thermoelectric generator and dedicated ASIC for energy harvesting applications <b>2013</b> ,		14
153	K-band capacitive MEMS switches on GaAs substrate: Design, fabrication, and reliability. <i>Microelectronics Reliability</i> , <b>2012</b> , 52, 2245-2249	1.2	14
152	An Integrated Micro-Fluxgate Magnetic Sensor With Front-End Circuitry. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2009</b> , 58, 3269-3275	5.2	14
151	A networked multisensor system for ambient assisted living application <b>2009</b> ,		14
150	Characterization of novel copper phthalocyanine Langmuir-Blodgett films for NO <sub>2</sub> detection. <i>Thin Solid Films</i> , <b>1996</b> , 284-285, 870-872	2.2	14
149	Inorganic Photocatalytic Enhancement: Activated RhB Photodegradation by Surface Modification of SnO Nanocrystals with VO-like species. <i>Scientific Reports</i> , <b>2017</b> , 7, 44763	4.9	13
148	In-home hierarchical posture classification with a time-of-flight 3D sensor. <i>Gait and Posture</i> , <b>2014</b> , 39, 182-7	2.6	13

147	From doping to phase transformation: Ammonia sensing performances of chloroalkoxide-derived WO <sub>3</sub> powders modified with chromium. <i>Sensors and Actuators B: Chemical</i> , <b>2010</b> , 148, 200-206	8.5	13
146	Structural and optical properties of molybdenumtungsten mixed oxide thin films deposited by the sol-gel technique. <i>Journal of Applied Physics</i> , <b>2003</b> , 93, 3816-3822	2.5	13
145	Modeling, fabrication and plasma actuator coupling of flexible pressure sensors for flow separation detection and control in aeronautical applications. <i>Journal Physics D: Applied Physics</i> , <b>2016</b> , 49, 235201	3	12
144	The Chloroalkoxide Route to Transition Metal Oxides. Synthesis of V <sub>2</sub> O <sub>5</sub> Thin Films and Powders from a Vanadium Chloromethoxide. <i>Chemistry of Materials</i> , <b>2009</b> , 21, 1618-1626	9.6	12
143	Poly[3-(butylthio)thiophene] LangmuirBlodgett films as selective solid state chemiresistors for nitrogen dioxide. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2002</b> , 198-200, 829-833	5.1	12
142	Hall effect measurements in gas sensors based on nanosized Os-doped sol-gel derived SnO <sub>2</sub> thin films. <i>IEEE Sensors Journal</i> , <b>2003</b> , 3, 827-834	4	12
141	LangmuirBlodgett films of poly[3-(butylthio)thiophene]: optical properties and electrical measurements in controlled atmosphere. <i>Sensors and Actuators B: Chemical</i> , <b>1999</b> , 57, 125-129	8.5	12
140	A SnO <sub>2</sub> microsensor device for sub-ppm NO <sub>2</sub> detection. <i>Sensors and Actuators B: Chemical</i> , <b>1999</b> , 58, 552-555	8.5	12
139	Electrical properties of vacuum-deposited polycrystalline InSe thin films. <i>Solar Energy Materials and Solar Cells</i> , <b>1991</b> , 22, 215-222		12
138	Electrical Characterization of In <sub>2</sub> Se <sub>3</sub> Single Crystals. <i>Physica Status Solidi A</i> , <b>1991</b> , 126, 437-442		12
137	Use of a toasted durum whole meal in the production of a traditional Italian pasta: chemical, mechanical, sensory and image analyses. <i>International Journal of Food Science and Technology</i> , <b>2008</b> , 43, 1610-1618	3.8	11
136	Thermal annealing effect on nanostructured TiO <sub>2</sub> microsensors by supersonic cluster beam deposition. <i>Sensors and Actuators B: Chemical</i> , <b>2005</b> , 111-112, 22-27	8.5	11
135	. <i>Journal of Sol-Gel Science and Technology</i> , <b>2001</b> , 21, 195-201	2.3	11
134	Physical characterization of In <sub>2</sub> Se <sub>3</sub> thin films prepared by electron beam evaporation. <i>Vacuum</i> , <b>1995</b> , 46, 997-1000	3.7	11
133	Experimental assessment of thermoelectric generator package properties: Simulated results validation and real gradient capabilities. <i>Energy</i> , <b>2015</b> , 86, 300-310	7.9	10
132	Surface chemical functionalization of single walled carbon nanotubes with a bacteriorhodopsin mutant. <i>Nanoscale</i> , <b>2012</b> , 4, 6434-41	7.7	10
131	Ta <sub>2</sub> O <sub>5</sub> Thin Films for Capacitive RF MEMS Switches. <i>Journal of Sensors</i> , <b>2010</b> , 2010, 1-5	2	10
130	<b>2011</b> ,		10

129	Core-shell Pd nanoparticles embedded in SnO <sub>x</sub> films. Synthesis, analytical characterisation and perspective application in chemiresistor-type sensing devices. <i>Microelectronics Journal</i> , <b>2006</b> , 37, 1620-1628	1.8	10
128	Investigation of deep levels in Zn-doped InSe single crystals. <i>Journal of Applied Physics</i> , <b>1992</b> , 71, 2274-2279		10
127	Growth and characterization of tin oxide thin films prepared by reactive sputtering. <i>Solar Energy Materials and Solar Cells</i> , <b>1993</b> , 31, 235-242	6.4	10
126	Soft chemistry routes to transparent metal oxide thin films. The case of sol-gel synthesis and structural characterization of Ta <sub>2</sub> O <sub>5</sub> thin films from tantalum chloromethoxide. <i>Thin Solid Films</i> , <b>2014</b> , 555, 39-41	2.2	9
125	Acetone Sensing with TiO <sub>2</sub> -WO <sub>3</sub> Nanocomposites: An Example of Response Enhancement by Inter-oxide Cooperative Effects. <i>Procedia Engineering</i> , <b>2014</b> , 87, 803-806		9
124	Chemoresistive sensing of light alkanes with SnO <sub>2</sub> nanocrystals: a DFT-based insight. <i>Physical Chemistry Chemical Physics</i> , <b>2009</b> , 11, 3634-9	3.6	9
123	A novel approach to data analysis for semiconductor metal-oxide gas sensors in chromatographic systems. <i>Sensors and Actuators B: Chemical</i> , <b>2010</b> , 147, 1-4	8.5	9
122	Morphological, chemical and electrical characterization of thin film grown on rough and mechanically polished substrates. <i>Journal Physics D: Applied Physics</i> , <b>1996</b> , 29, 2235-2239	3	9
121	Langmuir-Blodgett films of a phthalocyanine symmetrically functionalized with eight ester units. <i>Materials Science and Engineering C</i> , <b>1998</b> , 5, 317-320	8.3	9
120	Integrated interface circuit with multiplexed input and digital output for a 5B SnO <sub>2</sub> thick film gas-sensor matrix. <i>Sensors and Actuators B: Chemical</i> , <b>2008</b> , 132, 568-575	8.5	9
119	The hydrolytic route to Co-porphyrin-doped SnO <sub>2</sub> gas-sensing materials. <i>Inorganica Chimica Acta</i> , <b>2008</b> , 361, 79-85	2.7	9
118	Temperature and doping effects on performance of titania thin film lambda probe. <i>Sensors and Actuators B: Chemical</i> , <b>2005</b> , 111-112, 52-57	8.5	9
117	Monitoring the drying process of lasagna pasta through a novel sensing device-based method. <i>Journal of Food Engineering</i> , <b>2005</b> , 69, 51-59	6	9
116	Wearable and flexible thermoelectric generator with enhanced package <b>2013</b> ,		8
115	Two step, hydrolytic-solvothermal synthesis of redispersible titania nanocrystals and their gas-sensing properties. <i>Journal of Sol-Gel Science and Technology</i> , <b>2011</b> , 60, 254-259	2.3	8
114	An integrated system for people fall-detection with data fusion capabilities based on 3D ToF camera and wireless accelerometer <b>2010</b> ,		8
113	Compositional and optical characterization of rf sputter deposited TeO <sub>x</sub> thin films for optical disk application. <i>Vacuum</i> , <b>1992</b> , 43, 305-308	3.7	8
112	Blood, urine and semen Volatile Organic Compound (VOC) pattern analysis for assessing health environmental impact in highly polluted areas in Italy. <i>Environmental Pollution</i> , <b>2021</b> , 286, 117410	9.3	8

111	Nanogap Sensors Decorated with SnO <sub>2</sub> Nanoparticles Enable Low-Temperature Detection of Volatile Organic Compounds. <i>ACS Applied Nano Materials</i> , <b>2020</b> , 3, 3337-3346	5.6	7
110	Structural and morphological evolution of aluminum nitride thin films: Influence of additional energy to the sputtering process. <i>Journal of Physics and Chemistry of Solids</i> , <b>2013</b> , 74, 1444-1451	3.9	7
109	Suppression of the NO <sub>2</sub> interference by chromium addition in WO <sub>3</sub> -based ammonia sensors. Investigation of the structural properties and of the related sensing pathways. <i>Sensors and Actuators B: Chemical</i> , <b>2013</b> , 187, 308-312	8.5	7
108	Wafer-Level Fabrication and Gas Sensing Properties of miniaturized gas sensors based on Inductively Coupled Plasma Deposited Tin Oxide Nanorods. <i>Procedia Chemistry</i> , <b>2009</b> , 1, 196-199		7
107	Integrated read-out and temperature control interface with digital I/O for a gas-sensing system based on a SnO <sub>2</sub> microhotplate thin film gas sensor <b>2008</b> ,		7
106	Oxide nanocrystals from a low-temperature, self-limiting sol-gel transition in a coordinating environment: Nanocrystal synthesis, processing of gas-sensing devices and application to organic compounds. <i>Sensors and Actuators B: Chemical</i> , <b>2007</b> , 126, 163-167	8.5	7
105	Classification of multiple defect concentrations in white wine by platinum microelectrode voltammetry. <i>Sensors and Actuators B: Chemical</i> , <b>2007</b> , 125, 462-467	8.5	7
104	Optical absorption and structural characterization of reactively sputtered tellurium suboxide thin films. <i>Applied Surface Science</i> , <b>1993</b> , 65-66, 313-318	6.7	7
103	Wafer-level micropackaging in thin film technology for RF MEMS applications. <i>Microsystem Technologies</i> , <b>2018</b> , 24, 575-585	1.7	7
102	Aircraft Distributed Flow Turbulence Sensor Network with Embedded Flow Control Actuators <b>2014</b> ,		6
101	Effect of top-down nanomachining on electrical conduction properties of TiO <sub>2</sub> nanostructure-based chemical sensors. <i>Nanotechnology</i> , <b>2012</b> , 23, 095302	3.4	6
100	ZnO nanocrystals by chemical route for optical gas sensing <b>2008</b> ,		6
99	Au-NiO nanocrystalline thin films for sensor application. <i>Journal of Physics: Conference Series</i> , <b>2007</b> , 61, 435-439	0.3	6
98	Electrical properties of indium selenide single crystals doped with tin. <i>Solar Energy Materials and Solar Cells</i> , <b>1992</b> , 26, 159-167	6.4	6
97	Out-of-plane deformation and pull-in voltage of cantilevers with residual stress gradient: experiment and modelling. <i>Microsystem Technologies</i> , <b>2019</b> , 25, 3581-3588	1.7	6
96	Rhodium as efficient additive for boosting acetone sensing by TiO <sub>2</sub> nanocrystals. Beyond the classical view of noble metal additives. <i>Sensors and Actuators B: Chemical</i> , <b>2020</b> , 319, 128338	8.5	5
95	Polyimide/PDMS flexible thermoelectric generator for ambient assisted living applications <b>2011</b> ,		5
94	Hall effect and deep level transient spectroscopy measurements in indium selenide doped with chlorine. <i>Solar Energy Materials and Solar Cells</i> , <b>1992</b> , 28, 223-232	6.4	5

93	Deep Level Transient Spectroscopy Measurements in InSe Single Crystals. <i>Physica Status Solidi A</i> , <b>1989</b> , 114, 253-257		5
92	Smart EMG-based Socks for Leg Muscles Contraction Assessment <b>2019</b> ,		4
91	A 5.813 GHz SDR RF front-end for wireless sensors network robust to out-of-band interferers in 65nm CMOS <b>2015</b> ,		4
90	An EMG-based system for pre-impact fall detection <b>2015</b> ,		4
89	Context-Aware AAL Services through a 3D Sensor-Based Platform. <i>Journal of Sensors</i> , <b>2013</b> , 2013, 1-10	2	4
88	. <i>IEEE Sensors Journal</i> , <b>2011</b> , 11, 649-656	4	4
87	Morphological and structural characterization of WO <sub>3</sub> and CrWO <sub>3</sub> thin films synthesized by sol-gel process. <i>Thin Solid Films</i> , <b>2010</b> , 518, 4512-4514	2.2	4
86	Low-cost electronics and thin film technology for sol-gel titania lambda probes. <i>Sensors and Actuators B: Chemical</i> , <b>2008</b> , 128, 359-365	8.5	4
85	Photoinduced current transient spectroscopy in InSe single crystals. <i>Solar Energy Materials and Solar Cells</i> , <b>1990</b> , 20, 181-187		4
84	Density of states in evaporated amorphous GaSe films using space-charge-limited current measurements. <i>Journal of Applied Physics</i> , <b>1988</b> , 64, 1885-1888	2.5	4
83	On the Analysis of Complex Thermally Stimulated Capacitance Curves. <i>Physica Status Solidi A</i> , <b>1985</b> , 91, 185-189		4
82	Design of an Electronic Nose for Selective Phosphine Detection in Cereals. <i>Sensor Letters</i> , <b>2006</b> , 4, 229-234		4
81	An open NFC-based platform for vital signs monitoring <b>2015</b> ,		3
80	Morphological and structural characterization of SmO <sub>3</sub> compounds prepared by thermolysis of dithiocarbamate precursors. <i>Thin Solid Films</i> , <b>2014</b> , 556, 241-246	2.2	3
79	Support Vector Machine for tri-axial accelerometer-based fall detector <b>2013</b> ,		3
78	Objective assessment of physical activity and sedentary time of older adults using ambient and wearable sensor technologies. <i>Journal of Ambient Intelligence and Humanized Computing</i> , <b>2017</b> , 1	3-7	3
77	Heterogeneous sensor platform for circadian rhythm analysis <b>2015</b> ,		3
76	Electrical characterization of a pig odorant binding protein by Impedance Spectroscopy <b>2009</b> ,		3

75	Nanoparticle thin films deposited by MAPLE for sensor applications <b>2008</b> ,		3
74	Application of a gas sensors array to the detection of fuel as contamination defect in engine oil <b>2008</b> ,		3
73	A CMOS 2D Micro-Fluxgate Earth Magnetic Field Sensor with Digital Output <b>2007</b> ,		3
72	Molybdenum-based nanostructured mixed oxides for sensing applications: Effect of the Mo oxide composition on the structure of sol-gel thin films. <i>Journal of Vacuum Science &amp; Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , <b>2002</b> , 20, 2433		3
71	Deep levels in indium selenide single crystals doped with iodine. <i>Journal of Applied Physics</i> , <b>1995</b> , 78, 5427-5430	2.5	3
70	Impurity Levels in As-Doped Indium Selenide Single Crystals. <i>Physica Status Solidi A</i> , <b>1992</b> , 133, 421-428		3
69	SOL-GEL PREPARED MoO <sub>3</sub> -TiO <sub>2</sub> THIN FILMS FOR CO AND NO <sub>2</sub> GAS SENSING <b>2000</b> ,		3
68	Human Biomonitoring of Environmental and Occupational Exposures by GC-MS and Gas Sensor Systems: A Systematic Review. <i>International Journal of Environmental Research and Public Health</i> , <b>2021</b> , 18,	4.6	3
67	Embedded sensor/actuator system for aircraft active flow separation control <b>2015</b> ,		2
66	In vitro profiling of endothelial volatile organic compounds under resting and pro-inflammatory conditions. <i>Metabolomics</i> , <b>2019</b> , 15, 132	4.7	2
65	Supervised machine learning scheme for tri-axial accelerometer-based fall detector <b>2013</b> ,		2
64	Supervised wearable wireless system for fall detection <b>2013</b> ,		2
63	Solvothermal Synthesis, Gas-Sensing Properties, and Solar Cell-Aided Investigation of TiO <sub>2</sub> /MoO <sub>x</sub> Nanocrystals. <i>ChemNanoMat</i> , <b>2017</b> , 3, 798-807	3.5	2
62	Structural, Morphological, and Chemical Properties of Cu/TiN Versus Cu Thin Layers for HEMT Backside Metallization. <i>IEEE Transactions on Device and Materials Reliability</i> , <b>2014</b> , 14, 890-897	1.6	2
61	A Virtual Trainer by Natural User Interface for Cognitive Rehabilitation in Dementia. <i>Lecture Notes in Computer Science</i> , <b>2014</b> , 300-309	0.9	2
60	<b>2013</b> ,		2
59	Gas microsensor array for breath analysis: An explorative study of smoking status risk <b>2011</b> ,		2
58	Topological and volumetric posture recognition with active vision sensor in AAL contexts <b>2011</b> ,		2

57	Microsystem Technology for Ambient Assisted Living (AAL). <i>Procedia Chemistry</i> , <b>2009</b> , 1, 710-713		2
56	A miniaturized gas-chromatographic system for the evaluation of fish freshness <b>2008</b> ,		2
55	Identification of wine defects by means of a miniaturized electronic tongue <b>2007</b> , 6589, 436		2
54	Microhotplate-based silicon gas sensor arrays with linear temperature gradient for wine quality monitoring <b>2005</b> ,		2
53	Deep Level Transient Spectroscopy in P-Doped InSe Single Crystals. <i>Physica Status Solidi A</i> , <b>1991</b> , 128, K33-K36		2
52	Hole traps in n-InSe single crystals by minority-carrier transient spectroscopy measurements. <i>Solar Energy Materials and Solar Cells</i> , <b>1990</b> , 20, 131-138		2
51	Space-charge-limited currents in amorphous gallium sulfide thin films. <i>Journal of Applied Physics</i> , <b>1991</b> , 69, 320-323	2.5	2
50	Sol-Gel Synthesis and Gas Sensing Properties of In <sub>2</sub> O <sub>3</sub> Thin Films <b>2001</b> ,		2
49	Double Approach to Study VOC Composition in Biofluids of Young Men Living in the [Land of Fires] in Campania Region. <i>Lecture Notes in Electrical Engineering</i> , <b>2020</b> , 103-109	0.2	2
48	Supervised Machine Learning Scheme for Wearable Accelerometer-Based Fall Detector. <i>Lecture Notes in Electrical Engineering</i> , <b>2014</b> , 295-299	0.2	2
47	Odorant Binding Proteins as Sensing Layers for Novel Gas Biosensors: An Impedance Spectroscopy Characterization. <i>Lecture Notes in Electrical Engineering</i> , <b>2011</b> , 317-324	0.2	2
46	Characterization of Human Semen by GC-MS and VOC Sensor: An Unexplored Approach to the Study on Infertility. <i>Lecture Notes in Electrical Engineering</i> , <b>2019</b> , 529-536	0.2	2
45	A Smart Breath Analyzer for Monitoring Home Mechanical Ventilated Patients. <i>Lecture Notes in Electrical Engineering</i> , <b>2019</b> , 465-471	0.2	2
44	Human Organ-on-a-Chip: Around the Intestine Bends. <i>Lecture Notes in Electrical Engineering</i> , <b>2019</b> , 181-188		1
43	Big Data Analytics in Smart Living Environments for Elderly Monitoring. <i>Lecture Notes in Electrical Engineering</i> , <b>2019</b> , 301-309	0.2	1
42	Smart Insole for Diabetic Foot Monitoring. <i>Lecture Notes in Electrical Engineering</i> , <b>2019</b> , 571-577	0.2	1
41	Radar Sensing of Vital Signs in Assisted Living Applications. <i>Lecture Notes in Electrical Engineering</i> , <b>2019</b> , 3-22	0.2	1
40	A flexible thermoelectric generator with a fully electrical, low startup voltage and high efficiency DC-DC converter <b>2015</b> ,		1



39	A Fall Detector Based on Ultra-Wideband Radar Sensing. <i>Lecture Notes in Electrical Engineering</i> , <b>2018</b> , 373-382	0.2	1
38	Wafer-level thin film micropackaging for RF MEMS applications <b>2016</b> ,		1
37	A preliminary study on fall risk evaluation through electromiography systems <b>2015</b> ,		1
36	Automatic digital filtering for the accuracy improving of a digital holographic measurement system <b>2014</b> ,		1
35	A multi-feature scheme for posture recognition with 3D TOF sensor <b>2012</b> ,		1
34	Development of capacitive RF MEMS switches with TaN and Ta <sub>2</sub> O <sub>5</sub> thin films <b>2011</b> ,		1
33	An automated active vision system for fall detection and posture analysis in Ambient Assisted Living applications <b>2010</b> ,		1
32	167 Detection of NH <sub>3</sub> , DMA and TMA by a metal oxide gas sensor array for fish freshness evaluation <b>2009</b> ,		1
31	138 Electrical Impedance Spectroscopy of a Pig Odorant Binding Protein immobilized onto gold interdigitated microelectrodes: an ab-initio study <b>2009</b> ,		1
30	Reproducibility and Uniqueness of Information Coding as Key Factors For Array Optimization <b>2009</b> ,		1
29	Fabrication at wafer level of micromachined gas sensors based on SnO <sub>2</sub> nanorods deposited by PECVD and gas sensing characteristics <b>2011</b> ,		1
28	A Cr-doped WO <sub>3</sub> sensor for chromatographic systems in wine quality applications <b>2008</b> ,		1
27	Novel nano-hybrid gas sensor based on n-TiO <sub>2</sub> functionalized by phthalocyanines via supersonic beam co-deposition: Performance and application to automotive air quality <b>2008</b> ,		1
26	Chemical Synthesis, Characterization and Gas-Sensing Properties of Thin Films in the In <sub>2</sub> O <sub>3</sub> -SnO <sub>2</sub> System. <i>Materials Research Society Symposia Proceedings</i> , <b>2004</b> , 828, 209		1
25	Hall effect and impurity levels in lead doped indium selenide. <i>Journal of Applied Physics</i> , <b>1994</b> , 75, 3982-3986		1
24	Towards Abnormal Behavior Detection of Elderly People Using Big Data. <i>Intelligent Systems Reference Library</i> , <b>2021</b> , 13-33	0.8	1
23	Breath Analysis by a GC/MS Coupled to a Gas Sensor Detector. <i>Lecture Notes in Electrical Engineering</i> , <b>2018</b> , 267-275	0.2	1
22	100 nm-Gap Fingers Dielectrophoresis Functionalized MOX Gas Sensor Array for Low Temperature VOCs Detection. <i>Proceedings (mdpi)</i> , <b>2018</b> , 2, 1027	0.3	1

21	Multi-sensor Platform for Detection of Anomalies in Human Sleep Patterns. <i>Lecture Notes in Electrical Engineering</i> , <b>2018</b> , 276-285	0.2	o
20	Performance Analysis of an MLS-Based Interface for Impulse Response Estimation of Resistive and Capacitive Sensors. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , <b>2022</b> , 1-13	3.9	o
19	TOF Sensor Network for AAL Monitoring Services. <i>Procedia Computer Science</i> , <b>2013</b> , 19, 511-515	1.6	
18	Synthesis and Gas Sensing Properties of ZnO Quantum Dots. <i>Lecture Notes in Electrical Engineering</i> , <b>2010</b> , 169-172	0.2	
17	Cheap silicon technology integrated sol-gel combustion sensor <b>2005</b> , 5836, 255		
16	Remote Monitoring of COPD Patients During Non-invasive Mechanical Ventilation by a New Tele-medicine Device. <i>Lecture Notes in Electrical Engineering</i> , <b>2020</b> , 75-81	0.2	
15	Fast Multi-parametric Method for Mechanical Properties Estimation of Clamped Clamped Perforated Membranes. <i>Lecture Notes in Electrical Engineering</i> , <b>2019</b> , 619-627	0.2	
14	Multi-sensor Platform for Automatic Assessment of Physical Activity of Older Adults. <i>Lecture Notes in Electrical Engineering</i> , <b>2019</b> , 417-427	0.2	
13	Fall Risk Assessment Using New sEMG-Based Smart Socks. <i>Intelligent Systems Reference Library</i> , <b>2021</b> , 147-166	0.8	
12	Care@Home: Methodology, Goals and Project Experimentation Activities. <i>Biosystems and Biorobotics</i> , <b>2015</b> , 307-316	0.2	
11	Fall Risk Evaluation by Electromyography Solutions. <i>Lecture Notes in Electrical Engineering</i> , <b>2017</b> , 279-285	0.2	
10	Wireless Electromyography Technology for Fall Risk Evaluation. <i>Lecture Notes in Electrical Engineering</i> , <b>2018</b> , 322-329	0.2	
9	Radar-Based Fall Detection Using Deep Machine Learning: System Configuration and Performance. <i>Lecture Notes in Electrical Engineering</i> , <b>2018</b> , 257-268	0.2	
8	Heat Sink Free Wearable Thermoelectric System with Low Startup Voltage, High Efficiency DCDC Converter. <i>Lecture Notes in Electrical Engineering</i> , <b>2018</b> , 201-206	0.2	
7	Preparation and Electrical-Functional Characterization of Gas Sensors Based on TiO <sub>2</sub> Nanometric Strips Using Impedance Spectroscopy. <i>Lecture Notes in Electrical Engineering</i> , <b>2010</b> , 71-75	0.2	
6	Range Imaging for Fall Detection and Posture Analysis in Ambient Assisted Living Applications. <i>Lecture Notes in Electrical Engineering</i> , <b>2011</b> , 397-401	0.2	
5	Time-of-Flight Sensor-Based Platform for Posture Recognition in AAL Applications. <i>Lecture Notes in Electrical Engineering</i> , <b>2014</b> , 207-211	0.2	
4	Expert System for Wearable Fall Detector <b>2014</b> , 99-106		

- 3 Analysis of Skeletal Muscles Contractility Using Smart SEMG-Based Socks. *Lecture Notes in Electrical Engineering*, **2021**, 39-47 0.2
- 2 Iron Oxides Nanoparticles Langmuir-Schaeffer Multilayers for Chemoresistive Gas Sensing. *Lecture Notes in Electrical Engineering*, **2018**, 66-72 0.2
- 1 Blood Analysis by VOC Sensor Array for Environmental Exposure Assessment. *Lecture Notes in Electrical Engineering*, **2023**, 80-85 0.2