

# Pietro A Siciliano

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Blood Analysis by VOC Sensor Array for Environmental Exposure Assessment. <i>Lecture Notes in Electrical Engineering</i> , <b>2023</b> , 80-85	0.2	
307	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	0
306	Towards Abnormal Behavior Detection of Elderly People Using Big Data. <i>Intelligent Systems Reference Library</i> , <b>2021</b> , 13-33	0.8	1
305	Fall Risk Assessment Using New sEMG-Based Smart Socks. <i>Intelligent Systems Reference Library</i> , <b>2021</b> , 147-166	0.8	
304	Analysis of Skeletal Muscles Contractility Using Smart sEMG-Based Socks. <i>Lecture Notes in Electrical Engineering</i> , <b>2021</b> , 39-47	0.2	
303	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
302	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
301	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
300	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
299	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	
298	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
297	Smart EMG-based Socks for Leg Muscles Contraction Assessment <b>2019</b> ,		4
296	Human Organ-on-a-Chip: Around the Intestine Bends. <i>Lecture Notes in Electrical Engineering</i> , <b>2019</b> , 181-188		1
295	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
294	Smart Insole for Diabetic Foot Monitoring. <i>Lecture Notes in Electrical Engineering</i> , <b>2019</b> , 571-577	0.2	1
293	Radar Sensing of Vital Signs in Assisted Living Applications. <i>Lecture Notes in Electrical Engineering</i> , <b>2019</b> , 3-22	0.2	1
292	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

291	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	
290	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	
289	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
288	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
287	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
286	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
285	A Fall Detector Based on Ultra-Wideband Radar Sensing. <i>Lecture Notes in Electrical Engineering</i> , <b>2018</b> , 373-382	0.2	1
284	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
283	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
282	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	0
281	Wireless Electromyography Technology for Fall Risk Evaluation. <i>Lecture Notes in Electrical Engineering</i> , <b>2018</b> , 322-329	0.2	
280	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	
279	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	
278	Wafer-level micropackaging in thin film technology for RF MEMS applications. <i>Microsystem Technologies</i> , <b>2018</b> , 24, 575-585	1.7	7
277	Iron Oxides Nanoparticles Langmuir-Schaeffer Multilayers for Chemoresistive Gas Sensing. <i>Lecture Notes in Electrical Engineering</i> , <b>2018</b> , 66-72	0.2	
276	Chromatographic analysis of VOC patterns in exhaled breath from smokers and nonsmokers. <i>Biomedical Chromatography</i> , <b>2018</b> , 32, e4132	1.7	31
275	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
274	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

273	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
272	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
271	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
270	A Radar-Based Smart Sensor for Unobtrusive Elderly Monitoring in Ambient Assisted Living Applications. <i>Biosensors</i> , <b>2017</b> , 7,	5.9	55
269	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
268	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
267	Fall Risk Evaluation by Electromyography Solutions. <i>Lecture Notes in Electrical Engineering</i> , <b>2017</b> , 279-285.	5.2	
266	Wafer-level thin film micropackaging for RF MEMS applications <b>2016</b> ,		1
265	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
264	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
263	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
262	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
261	TiO <sub>2</sub> colloidal nanocrystals surface modification by V <sub>2</sub> O <sub>5</sub> species: Investigation by <sup>47</sup> Ti 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
260	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
259	An open NFC-based platform for vital signs monitoring <b>2015</b> ,		3
258	Embedded sensor/actuator system for aircraft active flow separation control <b>2015</b> ,		2
257	Surface modification of TiO <sub>2</sub> nanocrystals by WO <sub>x</sub> 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
256	Improving holographic reconstruction by automatic Butterworth filtering for microelectromechanical systems characterization. <i>Applied Optics</i> , <b>2015</b> , 54, 3428-32	0.2	23

255	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
254	A flexible thermoelectric generator with a fully electrical, low startup voltage and high efficiency DC-DC converter <b>2015</b> ,		1
253	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
252	A Wearable EMG-based System Pre-fall Detector. <i>Procedia Engineering</i> , <b>2015</b> , 120, 455-458		19
251	An EMG-based system for pre-impact fall detection <b>2015</b> ,		4
250	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
249	A preliminary study on fall risk evaluation through electromiography systems <b>2015</b> ,		1
248	Heterogeneous sensor platform for circadian rhythm analysis <b>2015</b> ,		3
247	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
246	Care@Home: Methodology, Goals and Project Experimentation Activities. <i>Biosystems and Biorobotics</i> , <b>2015</b> , 307-316	0.2	
245	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
244	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
243	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
242	Morphological and structural characterization of Sm <sub>2</sub> O <sub>3</sub> compounds prepared by thermolysis of dithiocarbamate precursors. <i>Thin Solid Films</i> , <b>2014</b> , 556, 241-246	2.2	3
241	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
240	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
239	Aircraft Distributed Flow Turbulence Sensor Network with Embedded Flow Control Actuators <b>2014</b> ,		6
238	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

237	Automatic digital filtering for the accuracy improving of a digital holographic measurement system <b>2014</b> ,		1
236	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
235	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
234	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	
233	Expert System for Wearable Fall Detector <b>2014</b> , 99-106		
232	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
231	Analytical characterisation of Negroamaro red wines by "Aroma Wheels". <i>Food Chemistry</i> , <b>2013</b> , 141, 2906-15	8.5	49
230	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
229	Support Vector Machine for tri-axial accelerometer-based fall detector <b>2013</b> ,		3
228	Thin film technology flexible thermoelectric generator and dedicated ASIC for energy harvesting applications <b>2013</b> ,		14
227	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
226	Supervised machine learning scheme for tri-axial accelerometer-based fall detector <b>2013</b> ,		2
225	Supervised wearable wireless system for fall detection <b>2013</b> ,		2
224	TOF Sensor Network for AAL Monitoring Services. <i>Procedia Computer Science</i> , <b>2013</b> , 19, 511-515	1.6	
223	Wearable and flexible thermoelectric generator with enhanced package <b>2013</b> ,		8
222	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
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	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

219	<b>2013,</b>		2
218	Supervised Expert System for Wearable MEMS Accelerometer-Based Fall Detector. <i>Journal of Sensors</i> , <b>2013</b> , 2013, 1-11	2	34
217	Context-Aware AAL Services through a 3D Sensor-Based Platform. <i>Journal of Sensors</i> , <b>2013</b> , 2013, 1-10	2	4
216	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
215	A multi-feature scheme for posture recognition with 3D TOF sensor <b>2012,</b>		1
214	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
213	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
212	Surface chemical functionalization of single walled carbon nanotubes with a bacteriorhodopsin mutant. <i>Nanoscale</i> , <b>2012</b> , 4, 6434-41	7.7	10
211	Volatile components of Negroamaro red wines produced in Apulian Salento area. <i>Food Chemistry</i> , <b>2012</b> , 132, 2155-2164	8.5	40
210	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
209	Development of capacitive RF MEMS switches with TaN and Ta <sub>2</sub> O <sub>5</sub> thin films <b>2011,</b>		1
208	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
207	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
206	Capacitive RF MEMS Switches With Tantalum-Based Materials. <i>Journal of Microelectromechanical Systems</i> , <b>2011</b> , 20, 365-370	2.5	29
205	. <i>IEEE Sensors Journal</i> , <b>2011</b> , 11, 649-656	4	4
204	Gas microsensor array for breath analysis: An explorative study of smoking status risk <b>2011,</b>		2
203	<b>2011,</b>		10
202	Topological and volumetric posture recognition with active vision sensor in AAL contexts <b>2011,</b>		2

201	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
200	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
199	Polyimide/PDMS flexible thermoelectric generator for ambient assisted living applications <b>2011</b> ,		5
198	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
197	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
196	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	
195	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
194	An integrated system for people fall-detection with data fusion capabilities based on 3D ToF camera and wireless accelerometer <b>2010</b> ,		8
193	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
192	An automated active vision system for fall detection and posture analysis in Ambient Assisted Living applications <b>2010</b> ,		1
191	Synthesis and Gas Sensing Properties of ZnO Quantum Dots. <i>Lecture Notes in Electrical Engineering</i> , <b>2010</b> , 169-172	0.2	
190	An active vision system for fall detection and posture recognition in elderly healthcare <b>2010</b> ,		69
189	Flexible thermoelectric generator for wearable biometric sensors <b>2010</b> ,		23
188	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
187	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
186	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
185	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
184	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	



183	Electrical characterization of a pig odorant binding protein by Impedance Spectroscopy <b>2009</b> ,		3
182	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
181	138 Electrical Impedance Spectroscopy of a Pig Odorant Binding Protein immobilized onto gold interdigitated microelectrodes: an ab-initio study <b>2009</b> ,		1
180	Reproducibility and Uniqueness of Information Coding as Key Factors For Array Optimization <b>2009</b> ,		1
179	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
178	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
177	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
176	Microsystem Technology for Ambient Assisted Living (AAL). <i>Procedia Chemistry</i> , <b>2009</b> , 1, 710-713		2
175	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
174	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
173	A networked multisensor system for ambient assisted living application <b>2009</b> ,		14
172	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
171	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
170	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
169	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
168	A hardware-software framework for high-reliability people fall detection <b>2008</b> ,		21
167	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
166	A miniaturized gas-chromatographic system for the evaluation of fish freshness <b>2008</b> ,		2

165	Nanoparticle thin films deposited by MAPLE for sensor applications <b>2008</b> ,		3
164	A Cr-doped WO <sub>3</sub> sensor for chromatographic systems in wine quality applications <b>2008</b> ,		1
163	Application of a gas sensors array to the detection of fuel as contamination defect in engine oil <b>2008</b> ,		3
162	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
161	ZnO nanocrystals by chemical route for optical gas sensing <b>2008</b> ,		6
160	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
159	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
158	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
157	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
156	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
155	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
154	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
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142	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
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128	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
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27	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
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25	Hall effect and impurity levels in lead doped indium selenide. <i>Journal of Applied Physics</i> , <b>1994</b> , 75, 3982-3986	2.5	1
24	Preparation and characterization of Langmuir-Blodgett films containing fullerene. <i>Thin Solid Films</i> , <b>1994</b> , 243, 367-370	2.2	23
23	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
22	Optical Absorption of Tellurium Suboxide Thin Films. <i>Physica Status Solidi A</i> , <b>1993</b> , 136, K101-K104		70

21	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
20	Investigation of deep levels in Zn-doped InSe single crystals. <i>Journal of Applied Physics</i> , <b>1992</b> , 71, 2274-2279		10
19	Impurity Levels in As-Doped Indium Selenide Single Crystals. <i>Physica Status Solidi A</i> , <b>1992</b> , 133, 421-428		3
18	Compositional and optical characterization of rf sputter deposited TeOx thin films for optical disk application. <i>Vacuum</i> , <b>1992</b> , 43, 305-308	3.7	8
17	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
16	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
15	Electrical properties of vacuum-deposited polycrystalline InSe thin films. <i>Solar Energy Materials and Solar Cells</i> , <b>1991</b> , 22, 215-222		12
14	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
13	Deep Level Transient Spectroscopy in P-Doped InSe Single Crystals. <i>Physica Status Solidi A</i> , <b>1991</b> , 128, K33-K36		2
12	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
11	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
10	Photoinduced current transient spectroscopy in InSe single crystals. <i>Solar Energy Materials and Solar Cells</i> , <b>1990</b> , 20, 181-187		4
9	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
8	Deep level spectroscopy in p-GaSe single crystals. <i>Journal of Applied Physics</i> , <b>1990</b> , 67, 6581-6582	2.5	19
7	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
6	Deep Level Transient Spectroscopy Measurements in InSe Single Crystals. <i>Physica Status Solidi A</i> , <b>1989</b> , 114, 253-257		5
5	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
4	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

3	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
2	Optical absorption and photoconductivity in amorphous indium selenide thin films. <i>Thin Solid Films</i> , <b>1987</b> , 148, 273-278	2.2	55
1	On the Analysis of Complex Thermally Stimulated Capacitance Curves. <i>Physica Status Solidi A</i> , <b>1985</b> , 91, 185-189		4