

Walter Lang

List of Publications by Year in descending order

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327
papers

6,348
citations

76196

40
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98622

67
g-index

339
all docs

339
docs citations

339
times ranked

4452
citing authors

#	ARTICLE	IF	CITATIONS
1	Digital Twin Features for the Intelligent Container. Lecture Notes in Logistics, 2022, , 217-228.	0.6	3
2	Considerations and Limits of Embedding Sensor Nodes for Structural Health Monitoring into Fiber Metal Laminates. Sensors, 2022, 22, 4511.	2.1	0
3	Using piezoresistive pressure sensors for resin flow monitoring in wind turbine blades. Materials Today: Proceedings, 2021, 34, 140-148.	0.9	6
4	An Investigation on High-Resolution Temperature Measurement in Precision Fly-Cutting. Sensors, 2021, 21, 1530.	2.1	5
5	Design and evaluation of a freeform lens-array for a structured light illumination. OSA Continuum, 2021, 4, 774.	1.8	2
6	Screen-Printed Resistive Pressure Sensors: Influence of Electrode Geometry on the Performance and on Cross-Sensitivity to Strain and Temperature. Journal of Physics: Conference Series, 2021, 1837, 012004.	0.3	4
7	Flexible passive LC resonator for wireless measurement during curing of thermosets. Journal of Physics: Conference Series, 2021, 1837, 012001.	0.3	3
8	An Assessment of Surface Treatments for Adhesion of Polyimide Thin Films. Polymers, 2021, 13, 1955.	2.0	19
9	Synthesis and Characterization of Ligand-Linked Pt Nanoparticles: Tunable, Three-Dimensional, Porous Networks for Catalytic Hydrogen Sensing. ChemistryOpen, 2021, 10, 697-712.	0.9	4
10	Low-Cost and Highly Sensitive Pressure Sensor with Mold-Printed Multi-Walled Carbon Nanotubes Dispersed in Polydimethylsiloxane. Sensors, 2021, 21, 5069.	2.1	6
11	Characterization of specular freeform surfaces from reflected ray directions using experimental ray tracing. Journal of Sensors and Sensor Systems, 2021, 10, 261-270.	0.6	1
12	Towards Long-Term Stable Polyimide-Based Flexible Electrical Insulation for Chronically Implanted Neural Electrodes. Micromachines, 2021, 12, 1279.	1.4	12
13	Stainless-Steel Antenna on Conductive Substrate for an SHM Sensor System with High Power Demand. Sensors, 2021, 21, 7841.	2.1	0
14	15 Years of Intelligent Container Research. , 2021, , 227-247.		3
15	Carbon Nanotubes/Polymer Films for Microsensors Applications. , 2021, , .		4
16	Experimental Study on Stress Impact during FML Manufacturing on the Functional Conformity of an Embeddable SHM-Sensor-Node. , 2021, 10, .		2
17	Micro-Oscillator as Integrable Sensor for Structure-Borne Ultrasound. , 2021, 10, .		2
18	A Combined Thin Film/Thick Film Approach to Realize an Aluminum-Based Strain Gauge Sensor for Integration in Aluminum Castings. Sensors, 2020, 20, 3579.	2.1	3

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19	Characterization of a highly sensitive and selective hydrogen gas sensor employing Pt nanoparticle network catalysts based on different bifunctional ligands. <i>Sensors and Actuators B: Chemical</i> , 2020, 322, 128619.	4.0	9
20	In-Situ Sub-Surface Strain Measurement in Deep Rolling Processes. , 2020, , .		0
21	Hybrid Directed Energy Deposition for Fabricating Metal Structures with Embedded Sensors for the Oil and Gas Industry. , 2020, , .		0
22	Characterization and Design Evaluation of Membrane-Based Calorimetric MEMS Sensors for Two-Dimensional Flow Measurement. <i>IEEE Sensors Journal</i> , 2020, 20, 4602-4609.	2.4	11
23	Hybrid directed energy deposition for fabricating metal structures with embedded sensors. <i>Additive Manufacturing</i> , 2020, 35, 101397.	1.7	14
24	Using RFID to Monitor the Curing of Aramid Fiber Reinforced Polymers. <i>Lecture Notes in Logistics</i> , 2020, , 441-450.	0.6	1
25	Condition Monitoring of O-Ring Seals with Integrated Strain Gauges and Finite Element Analysis Assisted Signal Evaluation. <i>Procedia Manufacturing</i> , 2020, 52, 56-60.	1.9	1
26	Editorial: System-Integrated Intelligence â€“ Intelligent, Flexible and Connected Systems in Products and Production. <i>Procedia Manufacturing</i> , 2020, 52, 1-3.	1.9	0
27	Towards self-healing biomimetic hair flow sensor. <i>Procedia Manufacturing</i> , 2020, 52, 44-49.	1.9	2
28	Online monitoring of thermoplastic crystallization with miniaturized interdigital sensors. , 2020, , .		0
29	Visual epidural field potentials possess high functional specificity in single trials. <i>Journal of Neurophysiology</i> , 2019, 122, 1634-1648.	0.9	7
30	Embedded Wireless Sensor Systems for Resin Flow Monitoring in Glass and Carbon Fiber Composites. <i>IEEE Sensors Journal</i> , 2019, 19, 10654-10661.	2.4	6
31	In-Vitro and In-Vivo Longevity Evaluation of Free-Floating Intracortical Silicon-Stiffened Neural Probes. , 2019, , .		2
32	Design and Fabrication Challenges of a Highly Sensitive Thermoelectric-Based Hydrogen Gas Sensor. <i>Micromachines</i> , 2019, 10, 650.	1.4	10
33	Highly Sensitive and Selective Hydrogen Gas Sensor with Platinum Nanoparticles Linked by 4,4'-Diamino-P-Terphenyl (Dater). , 2019, , .		3
34	Online Monitoring of Moisture Diffusion in Carbon Fiber Composites Using Miniaturized Flexible Material Integrated Sensors. <i>Sensors</i> , 2019, 19, 1748.	2.1	12
35	Design and Manufacturing of a Disposable, Cyclo-Olefin Copolymer, Microfluidic Device for a Biosensor â€. <i>Sensors</i> , 2019, 19, 1178.	2.1	14
36	Ligand-Linked Nanoparticles-Based Hydrogen Gas Sensor with Excellent Homogeneous Temperature Field and a Comparative Stability Evaluation of Different Ligand-Linked Catalysts. <i>Sensors</i> , 2019, 19, 1205.	2.1	8

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37	Online monitoring of shape memory polymers with a material integrated flexible interdigital sensor. , 2019, , .		1
38	Functionalization of Semi-Finished Parts by Printed Interdigital Structures for Cure Monitoring of Adhesive Joints. IEEE Sensors Journal, 2019, 19, 2370-2377.	2.4	2
39	A Flexible 202-Channel Epidural ECoG Array With PEDOT: PSS Coated Electrodes for Chronic Recording of the Visual Cortex. IEEE Sensors Journal, 2019, 19, 820-825.	2.4	25
40	Functional concept for the source independent beam-shaping of LED light. OSA Continuum, 2019, 2, 759.	1.8	1
41	Precise measurement of known and unknown freeform surfaces using Experimental Ray Tracing. , 2019, , .		1
42	Measurement of form and mid-spatial-frequency errors of specular freeform surfaces. , 2019, , .		0
43	Measuring Material Moisture in Fiber Reinforced Polymers by Integrated Sensors. IEEE Sensors Journal, 2018, 18, 3836-3843.	2.4	9
44	Online monitoring of the curing of adhesives with a miniaturised interdigital sensor using impedance spectroscopy. Journal of Adhesion Science and Technology, 2018, 32, 772-786.	1.4	8
45	A Disposable, Cyclo-Olefin Copolymer, RNA Microfluidic Sensor for Bacteria Detection. , 2018, , .		1
46	A Micromachined, Membrane Based, Thermoelectric Flow Sensor for 2-Dimensional Measurement with High Angular Resolution. , 2018, , .		1
47	Wireless Piezoresistive Pressure Sensors Used for Quality Control in Glass Fiber Composite Laminates. , 2018, , .		3
48	Challenges and Opportunities of RFID Sensortags Integration by Fibre-Reinforced Plastic Components Production. Procedia Manufacturing, 2018, 24, 54-59.	1.9	6
49	Integrating sensors in castings made of aluminum â€“ new approaches for direct sensor integration in gravity die casting. Procedia Manufacturing, 2018, 24, 179-184.	1.9	7
50	Influence of strain on miniaturized flexible sensor for on-line monitoring of CFRP production. Procedia Manufacturing, 2018, 24, 173-178.	1.9	1
51	Simultaneous Measurement of Strain and Temperature with two Resistive Strain Gauges made from Different Materials. Procedia Manufacturing, 2018, 24, 258-263.	1.9	8
52	Testing Lora for food applications - Example application for airflow measurements inside cooled warehouses with apples. Procedia Manufacturing, 2018, 24, 284-289.	1.9	11
53	Design Parameters for the Housing of Two-Dimensional Air Flow Sensors. IEEE Sensors Journal, 2018, 18, 10154-10162.	2.4	6
54	Design of Novel Ceramic Preconcentrator and Integration in Gas Chromatographic System for Detection of Ethylene Gas from Ripening Bananas. Sensors, 2018, 18, 2589.	2.1	10

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55	A Fungus Spores Dataset and a Convolutional Neural Network Based Approach for Fungus Detection. IEEE Transactions on Nanobioscience, 2018, 17, 281-290.	2.2	42
56	Silicon-Based Microfabrication of Free-Floating Neural Probes and Insertion Tool for Chronic Applications. Micromachines, 2018, 9, 131.	1.4	12
57	PEDOT: PSS coating on gold microelectrodes with excellent stability and high charge injection capacity for chronic neural interfaces. Sensors and Actuators B: Chemical, 2018, 275, 382-393.	4.0	81
58	8-Channel Neural Stimulation ASIC for Epidural Visual Cortex Stimulation. Journal of Circuits, Systems and Computers, 2017, 26, 1740008.	1.0	3
59	Smart aluminum components: Printed sensors for integration into aluminum during high-pressure casting. Journal of Manufacturing Processes, 2017, 26, 166-172.	2.8	12
60	Study of resin flow in carbon fiber reinforced polymer composites by means of pressure sensors. Journal of Composite Materials, 2017, 51, 3585-3594.	1.2	7
61	Design and evaluation of a freeform lens by using a method of luminous intensity mapping and a differential equation. , 2017, , .		2
62	Computational fluid dynamics modelling of deviating airflow and cooling conditions in banana containers. Acta Horticulturae, 2017, , 193-200.	0.1	4
63	Challenges and opportunities in remote monitoring of perishable products. Food Packaging and Shelf Life, 2017, 14, 18-25.	3.3	24
64	Reduction of power consumption and expansion of the measurement range by pulsed excitation of thermal flow sensors. Sensors and Actuators A: Physical, 2017, 265, 313-320.	2.0	8
65	HV compliant current driver with on-chip read-out protection switch for neural stimulation. Analog Integrated Circuits and Signal Processing, 2017, 92, 415-426.	0.9	3
66	Sensors on a plasticized thermoset substrate for cure monitoring of CFRP production. Sensors and Actuators A: Physical, 2017, 267, 560-566.	2.0	15
67	Fungus Detection Through Optical Sensor System Using Two Different Kinds of Feature Vectors for the Classification. IEEE Sensors Journal, 2017, 17, 5341-5349.	2.4	17
68	An efficient and simple embedded system of fungus detection system. , 2017, , .		3
69	A flexible multichannel ECoG array with PEDOT-coated electrodes for minimally invasive recording and stimulation. , 2017, , .		1
70	Housing design for two-dimensional air flow sensors. , 2017, , .		2
71	Spatial processing of sensor network data: Demonstrator and feasibility study. , 2017, , .		1
72	Using Allan variance to determine the resolution of ethylene gas chromatographic system. , 2017, , .		1

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73	Piezoresistive Pressure Sensors for Resin Flow Monitoring in Carbon Fibre-Reinforced Composite. Proceedings (mdpi), 2017, 1, .	0.2	2
74	Highly Stable PEDOT:PSS Coating on Gold Microelectrodes with Improved Charge Injection Capacity for Chronic Neural Stimulation. Proceedings (mdpi), 2017, 1, .	0.2	18
75	Demonstration of Intracortical Chronic Recording and Acute Microstimulation Using Novel Floating Neural Probes. Proceedings (mdpi), 2017, 1, .	0.2	6
76	Screen-Printed Interdigital Structure on Flexible RTM6 Substrate. Proceedings (mdpi), 2017, 1, 612.	0.2	1
77	Surface Integrated Printed Interdigital Structure for Process Monitoring the Curing of an Adhesive Joint. Proceedings (mdpi), 2017, 1, .	0.2	2
78	Experimental and Numerical Investigations in Shallow Cut Grinding by Workpiece Integrated Infrared Thermopile Array. Sensors, 2017, 17, 2250.	2.1	2
79	A Gas Chromatographic System for the Detection of Ethylene Gas Using Ambient Air as a Carrier Gas. Sensors, 2017, 17, 2283.	2.1	27
80	Intelligent Machine Parts: Challenges in the Condition Monitoring of Elastomer Gaskets with Integrated Sensors. Proceedings (mdpi), 2017, 1, .	0.2	1
81	Online Monitoring of Composites with a Miniaturized Flexible Combined Dielectric and Temperature Sensor. Proceedings (mdpi), 2017, 1, .	0.2	7
82	Implications for a Wireless, External Device System to Study Electrocorticography. Sensors, 2017, 17, 761.	2.1	4
83	Printed Sensors for Material Integrated Sensing: Functionalization of Semi-Finished Parts. Proceedings (mdpi), 2017, 1, .	0.2	2
84	Measuring strain during a cylindrical grinding process using embedded sensors in a workpiece. Journal of Sensors and Sensor Systems, 2017, 6, 331-340.	0.6	4
85	Advantages of Sub-GHz Communication in Food Logistics and DASH7 Implementation. Lecture Notes in Logistics, 2017, , 219-228.	0.6	0
86	Airflow Behavior Under Different Loading Schemes and Its Correspondence to Temperature in Perishables Transported in Refrigerated Containers. Lecture Notes in Logistics, 2017, , 481-490.	0.6	0
87	Combining the transformation and the integration methods to design a refractive lens-array for signal lighting applications. , 2017, , .		0
88	An Impedance-Based Mold Sensor with on-Chip Optical Reference. Sensors, 2016, 16, 1603.	2.1	9
89	Detection of Ethylene Using Gas Chromatographic System. Procedia Engineering, 2016, 168, 380-383.	1.2	17
90	Material integrated sensors for an optimal baseline selection on a wireless SHM network. , 2016, , .		2

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91	Strain gauge printed on carbon weave for sensing in carbon fiber reinforced plastics. , 2016, , .		6
92	Pulsed Excitation of Thermal Flow Sensors for Reduced Power Consumption and Expanded Measurement Range. Procedia Engineering, 2016, 168, 762-765.	1.2	2
93	Plasticisation of Epoxy Resin Transfer Molding Substrate for Fabrication of Interdigital Capacitive Sensors. Procedia Engineering, 2016, 168, 1110-1113.	1.2	3
94	A Multi-Nozzle Electrospray Emitter for Pneumatically Assisted Electrospray in LC-MS Analysis. Procedia Engineering, 2016, 168, 1366-1369.	1.2	2
95	Steel Integrated IR Thermopile Array for Characterizing Grinding Processes. Procedia Engineering, 2016, 168, 1568-1572.	1.2	1
96	Membrane-sealed Bioreactor for On-site Autonomous Detection of Fungi Spore Contamination in Archives. Procedia Engineering, 2016, 168, 529-532.	1.2	2
97	Compressed radio transmission of spatial field measurements by virtual sensors. , 2016, , .		2
98	Current driver with read-out HV protection for neural stimulation. , 2016, , .		3
99	Detection of fungus through an optical sensor system using the histogram of oriented gradients. , 2016, , .		9
100	Fungus Detection System. , 2016, , .		7
101	Development of a Fungal Risk Monitor for the next generation of intelligent containersaper. , 2016, , .		2
102	Foil-based strain gauges with nanogranular platinum structures for the integration in elastomer gaskets. , 2016, , .		1
103	Design, fabrication and embedding of microscale interdigital sensors for real-time cure monitoring during composite manufacturing. Sensors and Actuators A: Physical, 2016, 243, 123-133.	2.0	55
104	An easy fabrication process of fully-sealed parylene microfluidic channels with a single deposition step. Microsystem Technologies, 2016, 22, 1927-1932.	1.2	1
105	Comparison of Several Optical Methods for an Automated Fungal Spore Sensor System Concept. IEEE Sensors Journal, 2016, 16, 5596-5602.	2.4	8
106	Steel integrated thin film sensors for characterizing grinding processes. Sensors and Actuators A: Physical, 2016, 242, 203-209.	2.0	10
107	Design and fabrication of novel multi-channel floating neural probes for intracortical chronic recording. Sensors and Actuators A: Physical, 2016, 247, 125-135.	2.0	32
108	What Can MEMS Do for Logistics of Food? Intelligent Container Technologies: A Review. IEEE Sensors Journal, 2016, 16, 6810-6818.	2.4	19

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109	Wireless actuation of piezo-elements for the structural health monitoring of carbon-fiber-reinforced-polymers. <i>Mechatronics</i> , 2016, 34, 128-136.	2.0	6
110	Strain gauges based on NBR substrates for the integration into elastic materials. <i>Materials Letters</i> , 2016, 172, 60-63.	1.3	3
111	Materialintegrierte Sensorik für Fahrzeug-Leichtbautechnik. , 2016, , 191-216.		0
112	Miniature 3D Gas Chromatography Columns with Integrated Fluidic Connectors Using High-resolution Stereolithography Fabrication. <i>Procedia Engineering</i> , 2015, 120, 703-706.	1.2	29
113	Design and fabrication of multi-contact flexible silicon probes for intracortical floating implantation. , 2015, , .		6
114	Systems for locally resolved measurements of physical loads in manufacturing processes. <i>CIRP Annals - Manufacturing Technology</i> , 2015, 64, 495-498.	1.7	14
115	None Hazardous Chemical Method for Etching Thin Film Silicon Nitride Using Aqueous Solutions of Chelating Agents. <i>Procedia Engineering</i> , 2015, 120, 1107-1110.	1.2	4
116	Accelerated soak performance of BPDA-PPD polyimide for implantable MEAs. <i>Procedia Engineering</i> , 2015, 120, 36-40.	1.2	15
117	A multi-purpose ultrasonic streaming mixer for integrated magnetic bead ELISAs. <i>Journal of Micromechanics and Microengineering</i> , 2015, 25, 104001.	1.5	12
118	The intelligent container – What can MEMS do for logistics of food?. , 2015, , .		3
119	Impedance spectroscopy for detection of mold in archives with an integrated reference measurement. <i>Proceedings of SPIE</i> , 2015, , .	0.8	2
120	Investigations on the Impact of Material-Integrated Sensors with the Help of FEM-Based Modeling. <i>Sensors</i> , 2015, 15, 2336-2353.	2.1	14
121	Embedding Piezoresistive Pressure Sensors to Obtain Online Pressure Profiles Inside Fiber Composite Laminates. <i>Sensors</i> , 2015, 15, 7499-7511.	2.1	28
122	A Multi-Channel, Flex-Rigid ECoG Microelectrode Array for Visual Cortical Interfacing. <i>Sensors</i> , 2015, 15, 832-854.	2.1	40
123	Inductive wireless sensor-actuator node for structural health monitoring of fiber reinforced polymers by means of Lamb-waves. <i>Proceedings of SPIE</i> , 2015, , .	0.8	2
124	Sensor integration in rubber gaskets for structural health monitoring made by compression molding. <i>Polymer Testing</i> , 2015, 48, 31-36.	2.3	13
125	Fabrication of parylene channels embedded in silicon using a single parylene deposition step. <i>Proceedings of SPIE</i> , 2015, , .	0.8	0
126	Cokriging for cross-attribute fusion in sensor networks. <i>Information Fusion</i> , 2015, 24, 137-146.	11.7	5

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127	Investigations into packaging technology for membrane-based thermal flow sensors. Journal of Sensors and Sensor Systems, 2015, 4, 45-52.	0.6	7
128	Temperature Modulation of a Catalytic Gas Sensor. Sensors, 2014, 14, 20372-20381.	2.1	17
129	Embedded Strain Gauges for Condition Monitoring of Silicone Gaskets. Sensors, 2014, 14, 12387-12398.	2.1	19
130	Smart Sensors for the Intelligent Container. , 2014, , .		11
131	Remote quality monitoring in the banana chain. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2014, 372, 20130303.	1.6	54
132	Failure of Silicon Substrates Embedded in Epoxy Resin. Procedia Technology, 2014, 15, 216-220.	1.1	7
133	Reducing food losses by intelligent food logistics. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2014, 372, 20130302.	1.6	160
134	Low-frequency Inductive Power Transmission for Piezo-Wafer-Active-Sensors in the Structural Health Monitoring of Carbon-Fiber-Reinforced-Polymer. Procedia Technology, 2014, 15, 648-657.	1.1	9
135	Monocrystalline-silicon-based thermogenerator with broad temperature working range embedded using metal-spray-deposition. Sensors and Actuators A: Physical, 2014, 216, 417-425.	2.0	0
136	Stabilizing Catalytically Active Nanoparticles by Ligand Linking: Toward Three-Dimensional Networks with High Catalytic Surface Area. Langmuir, 2014, 30, 5564-5573.	1.6	25
137	Ligand-stabilized Pt nanoparticles (NPs) as novel materials for catalytic gas sensing: influence of the ligand on important catalytic properties. Physical Chemistry Chemical Physics, 2014, 16, 21243-21251.	1.3	18
138	Sensorial Surfaces-Embedding Sensor Structures Into the Surface of Materials. IEEE Sensors Journal, 2014, 14, 2078-2083.	2.4	5
139	Embedding rigid and flexible inlays in carbon fiber reinforced plastics. , 2014, , .		4
140	Miniaturized Flexible Interdigital Sensor for <i>In Situ</i> Dielectric Cure Monitoring of Composite Materials. IEEE Sensors Journal, 2014, 14, 2193-2197.	2.4	42
141	Integration Without Disruption: The Basic Challenge of Sensor Integration. IEEE Sensors Journal, 2014, 14, 2102-2111.	2.4	50
142	Resistive silicon microstructure for embedding in aluminium during casting. , 2014, , .		1
143	Micropatterning of nanoparticle films by bilayer lift-off. Journal of Micromechanics and Microengineering, 2014, 24, 015001.	1.5	6
144	Wireless Power Transmission for Structural Health Monitoring of Fiber-Reinforced-Composite Materials. IEEE Sensors Journal, 2014, 14, 2171-2176.	2.4	37

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145	Ethylene detection in fruit supply chains. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2014, 372, 20130311.	1.6	79
146	High sensitive and selective ethylene measurement by using a large-capacity-on-chip preconcentrator device. Sensors and Actuators B: Chemical, 2014, 197, 405-413.	4.0	36
147	A fast and sensitive catalytic gas sensors for hydrogen detection based on stabilized nanoparticles as catalytic layer. Sensors and Actuators B: Chemical, 2014, 193, 895-903.	4.0	49
148	On-chip Monitoring of pH Change in Agar-gels during Fungi Growth by Integrating Impedance and Colorimetric Principles. Procedia Engineering, 2014, 87, 373-376.	1.2	4
149	Flexible Flow Measuring System for Measurements on Non-planar Surfaces. Procedia Technology, 2014, 15, 238-247.	1.1	0
150	Strain gauges — Volume embedding vs. surface application. , 2014, , .		0
151	A miniaturized catalytic gas sensor for hydrogen detection based on stabilized nanoparticles as catalytic layer. Sensors and Actuators B: Chemical, 2013, 187, 420-425.	4.0	27
152	Bend sensor based on fibreoptics and concept for a compact evaluation unit. Production Engineering, 2013, 7, 15-22.	1.1	1
153	Sea transport of bananas in containers â€™ Parameter identification for a temperature model. Journal of Food Engineering, 2013, 115, 330-338.	2.7	57
154	Development of a Fully Implantable Recording System for ECoG Signals. , 2013, , .		11
155	Membrane-based thermal flow sensors on flexible substrates. Sensors and Actuators A: Physical, 2013, 195, 113-122.	2.0	29
156	Application of a miniaturised packed gas chromatography column and a SnO2 gas detector for analysis of low molecular weight hydrocarbons with focus on ethylene detection. Sensors and Actuators B: Chemical, 2013, 180, 43-49.	4.0	49
157	Influence of the electrode distance and metal ion concentration on the resulting structure in electrochemical micromachining with structured counter electrodes. International Journal of Machine Tools and Manufacture, 2013, 72, 25-31.	6.2	27
158	A low-power wireless UHF/LF sensor network with web-based remote supervision — Implementation in the intelligent container. , 2013, , .		4
159	Minimum Detectable Air Velocity by Thermal Flow Sensors. Sensors, 2013, 13, 10944-10953.	2.1	14
160	Development of hydrogenated amorphous carbon thin film with high electrical resistance for use in embedded sensors in abrasive environment. Journal of Intelligent Material Systems and Structures, 2013, 24, 2197-2203.	1.4	1
161	Characterization of Thermal Flow Sensors for Air Flow Measurements in Transport Containers. Lecture Notes in Logistics, 2013, , 361-370.	0.6	0
162	Combining Machine-to-Machine Communications with Intelligent Objects in Logistics. Communications in Computer and Information Science, 2012, , 102-112.	0.4	0

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163	Boundary Layer Separation and Reattachment Detection on Airfoils by Thermal Flow Sensors. Sensors, 2012, 12, 14292-14306.	2.1	34
164	A nanoparticles based catalytic gas sensor with improved stability. , 2012, , .		1
165	Implementation and Verification of a Low-Power UHF/LF Wireless Sensor Network as Part of the Intelligent Container. Procedia Engineering, 2012, 47, 68-71.	1.2	7
166	A Miniaturized Catalytic Gas Sensor for Hydrogen Detection Containing a High Porous Catalytic Layer Formed by Dry Lift-Off. Procedia Engineering, 2012, 47, 1149-1152.	1.2	1
167	Gas Chromatograph based on Packed 1/4GC-Columns and 1/4-Preconcentrator Devices for Ethylene Detection in Fruit Logistic Applications. Procedia Engineering, 2012, 47, 486-489.	1.2	9
168	Temperature Sensor Measurement System for Firefighter Gloves. Procedia Engineering, 2012, 47, 611-614.	1.2	11
169	Novel catalytic gas sensors based on functionalized nanoparticle layers. Sensors and Actuators B: Chemical, 2012, 174, 145-152.	4.0	17
170	Design and Fabrication of a Micropreconcentrator Focuser for Sensitivity Enhancement of Chemical Sensing Systems. IEEE Sensors Journal, 2012, 12, 2528-2534.	2.4	4
171	Embedding without disruption: The basic challenge of sensor integration. , 2012, , .		1
172	Detection limit improvement for NDIR ethylene gas detectors using passive approaches. Sensors and Actuators B: Chemical, 2012, 175, 246-254.	4.0	43
173	Thermoelectric Flow Sensor Integrated Into an Inductively Powered Wireless System. IEEE Sensors Journal, 2012, 12, 1891-1892.	2.4	5
174	Merging ethylene NDIR gas sensors with preconcentrator-devices for sensitivity enhancement. Sensors and Actuators B: Chemical, 2012, 170, 21-27.	4.0	20
175	A Thermoelectric Energy Harvester Directly Embedded Into Casted Aluminum. IEEE Electron Device Letters, 2012, 33, 233-235.	2.2	28
176	Strategies for Passive Sensitivity Improvement of NDIR Ethylene Gas Detectors. Procedia Engineering, 2011, 25, 1153-1156.	1.2	2
177	The "Intelligent Container" A Cognitive Sensor Network for Transport Management. IEEE Sensors Journal, 2011, 11, 688-698.	2.4	88
178	Modeling of the Response Time of Thermal Flow Sensors. Micromachines, 2011, 2, 385-393.	1.4	20
179	Testing network protocols and signal attenuation in packed food transports. International Journal of Sensor Networks, 2011, 9, 170.	0.2	31
180	Manufacturing of a wear detecting sensor made of 17-4PH steel using standard wafer processing technology. Sensors and Actuators A: Physical, 2011, 171, 34-37.	2.0	9

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181	Response time of thermal flow sensors with air as fluid. Sensors and Actuators A: Physical, 2011, 172, 15-20.	2.0	41
182	From embedded sensors to sensorial materialsâ€™The road to function scale integration. Sensors and Actuators A: Physical, 2011, 171, 3-11.	2.0	56
183	Sensorial materialsâ€™A vision about where progress in sensor integration may lead to. Sensors and Actuators A: Physical, 2011, 171, 1-2.	2.0	14
184	Dynamic localization based on spatial reasoning with RSSI in wireless sensor networks for transport logistics. Sensors and Actuators A: Physical, 2011, 171, 421-428.	2.0	42
185	A microfluidic preconcentrator for enhanced monitoring of ethylene gas. Sensors and Actuators A: Physical, 2011, 167, 226-230.	2.0	15
186	A novel flex-rigid and soft-release ECoG array. , 2011, 2011, 2973-6.		10
187	Humidity influence in application of µGC-Systems for ethylene gas with preconcentrator devices and SnO‑based detectors. , 2011, , .		0
188	Interpolation of spatial temperature profiles by sensor networks. , 2011, , .		11
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