

# Olfa Kanoun

## List of Publications by Year in descending order

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302  
papers

4,111  
citations

147801

31  
h-index

168389

53  
g-index

304  
all docs

304  
docs citations

304  
times ranked

3584  
citing authors

#	ARTICLE	IF	CITATIONS
1	Surface-Enhanced Raman Spectroscopy and Electrochemistry: The Ultimate Chemical Sensing and Manipulation Combination. <i>Critical Reviews in Analytical Chemistry</i> , 2024, 54, 110-134.	3.5	2
2	Design and implementation of a cloud-based event-driven architecture for real-time data processing in wireless sensor networks. <i>Journal of Supercomputing</i> , 2022, 78, 3374-3401.	3.6	19
3	High performance oversampling technique considering intra-class and inter-class distances. <i>Concurrency Computation Practice and Experience</i> , 2022, 34, e6753.	2.2	2
4	Hand Sign Recognition System Based on EIT Imaging and Robust CNN Classification. <i>IEEE Sensors Journal</i> , 2022, 22, 1729-1737.	4.7	14
5	Enhanced Nitrite Detection by a Carbon Screen Printed Electrode Modified with Photochemically-Made AuNPs. <i>Chemosensors</i> , 2022, 10, 40.	3.6	17
6	Comparative Study of AC Signal Analysis Methods for Impedance Spectroscopy Implementation in Embedded Systems. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 591.	2.5	13
7	Self-Calibrated AC Zero Potential Circuit for Two-Dimensional Impedimetric Sensor Matrices. <i>IEEE Sensors Journal</i> , 2022, 22, 6002-6009.	4.7	1
8	State-of-Health of Li-Ion Battery Estimation Based on the Efficiency of the Charge Transfer Extracted from Impedance Spectra. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 885.	2.5	18
9	Role of Solvent Polarity on Dispersion Quality and Stability of Functionalized Carbon Nanotubes. <i>Journal of Composites Science</i> , 2022, 6, 26.	3.0	12
10	Requirements for Energy-Harvesting-Driven Edge Devices Using Task-Offloading Approaches. <i>Electronics (Switzerland)</i> , 2022, 11, 383.	3.1	7
11	Development of an Efficient Voltammetric Sensor for the Monitoring of 4-Aminophenol Based on Flexible Laser Induced Graphene Electrodes Modified with MWCNT-PANI. <i>Sensors</i> , 2022, 22, 833.	3.8	15
12	Comparative Study of Machine-Learning Frameworks for the Elaboration of Feed-Forward Neural Networks by Varying the Complexity of Impedimetric Datasets Synthesized Using Eddy Current Sensors for the Characterization of Bi-Metallic Coins. <i>Sensors</i> , 2022, 22, 1312.	3.8	3
13	Vibration Converter with Passive Energy Management for Battery-Less Wireless Sensor Nodes in Predictive Maintenance. <i>Energies</i> , 2022, 15, 1982.	3.1	7
14	Measurement Methods for Capacitances in the Range of $1\text{pF}$ – $1\text{nF}$ : A review. <i>Measurement: Journal of the International Measurement Confederation</i> , 2022, 195, 111067.	5.0	7
15	Analytical and Experimental Performance Analysis of Enhanced Wake-Up Receivers Based on Low-Power Base-Band Amplifiers. <i>Sensors</i> , 2022, 22, 2169.	3.8	7
16	Towards Hybrid Energy-Efficient Power Management in Wireless Sensor Networks. <i>Sensors</i> , 2022, 22, 301.	3.8	12
17	A genetic algorithm for image reconstruction in electrical impedance tomography for gesture recognition. <i>TM Technisches Messen</i> , 2022, 89, 310-327.	0.7	2
18	Impedance Spectroscopy: Applications, Advances and Future Trends. <i>IEEE Instrumentation and Measurement Magazine</i> , 2022, 25, 11-21.	1.6	16

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19	Multiple Faults Detection and Location in Bus-Shaped Cable Networks by Distributed Time-Domain Reflectometry. , 2022, 6, 1-4.		6
20	Collaborative Filler Network for Enhancing the Performance of BaTiO <sub>3</sub> /PDMS Flexible Piezoelectric Polymer Composite Nanogenerators. Sensors, 2022, 22, 4181.	3.8	7
21	Pendulum-Based River Current Energy Converter for Hydrometric Monitoring Systems. Sensors, 2022, 22, 4246.	3.8	1
22	Comparative Study of AC-DC Rectifiers for Vibration Energy Harvesters. , 2022, , .		1
23	Compact multi-coil inductive power transfer system with a passive peak detector circuit for wireless sensor nodes. TM Technisches Messen, 2022, .	0.7	0
24	Electrochemical sensor for nitrite detection in water samples using flexible laser-induced graphene electrodes functionalized by CNT decorated by Au nanoparticles. Journal of Electroanalytical Chemistry, 2021, 880, 114893.	3.8	90
25	Multifrequency Inductive Sensor System for Classification of Bimetallic Coins. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-9.	4.7	7
26	Wireless Body Sensor Networks with Enhanced Reliability by Data Aggregation Based on Machine Learning Algorithms. Smart Sensors, Measurement and Instrumentation, 2021, , 67-81.	0.6	3
27	Human Breathing Monitoring by Graphene Oxide Based Sensors. Smart Sensors, Measurement and Instrumentation, 2021, , 97-107.	0.6	1
28	Piezo-Resistive Pressure and Strain Sensors for Biomedical and Tele-Manipulation Applications. Smart Sensors, Measurement and Instrumentation, 2021, , 47-65.	0.6	8
29	Energy-Aware System Design for Autonomous Wireless Sensor Nodes: A Comprehensive Review. Sensors, 2021, 21, 548.	3.8	69
30	Review on Conductive Polymer/CNTs Nanocomposites Based Flexible and Stretchable Strain and Pressure Sensors. Sensors, 2021, 21, 341.	3.8	128
31	Electrode Design for Reproducible Study of Tissues Impedance in Medical Applications. Smart Sensors, Measurement and Instrumentation, 2021, , 25-37.	0.6	0
32	Ultra Thin Nanocomposite In-Sole Pressure Sensor Matrix for Gait Analysis. Smart Sensors, Measurement and Instrumentation, 2021, , 33-45.	0.6	1
33	Impedimetric Detection of Human Interleukin 10 on Diazonium Salt Electroaddressed Gold Microelectrode Surfaces. Smart Sensors, Measurement and Instrumentation, 2021, , 109-121.	0.6	1
34	Detection of Density Changes in Soils with Impedance Spectroscopy. Applied Sciences (Switzerland), 2021, 11, 1568.	2.5	6
35	Naphthalimide-Based Fluorescent Polymers for Molecular Detection. Advanced Optical Materials, 2021, 9, 2001913.	7.3	43
36	Tuning the Performance of Flexible Lead-Free Zn-BCZT/PVDF-HFP Piezoelectric Nanogenerator. , 2021, , .		0

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37	Highly-Flexible Piezoelectric Nanogenerator based on BZT/PVDF-HFP for Mechanical Energy Harvesting. , 2021, , .		1
38	A parallel Architecture of a Genetic Algorithm for EIT Image Reconstruction. , 2021, , .		4
39	AC-DC Single Phase Rectifiers for Nanocomposite based Flexible Piezoelectric Energy Harvesters. , 2021, , .		1
40	Design optimization of spiral coils for textile applications by genetic algorithm. , 2021, , .		3
41	Design and Evaluation of a Low Energy Bluetooth Sensor Node for Animal Monitoring. , 2021, , .		3
42	Comparative Study of Digital Filters for a Smart Glove Functionalized with Nanocomposite Strain Sensor. , 2021, , .		4
43	Identification of Communication Cables Based on S-Parameters and K-Nearest Neighbors Algorithm. , 2021, , .		1
44	Upcycling Emperor Fish Scales for Biocompatible Piezoelectric Energy Harvesting. , 2021, , .		0
45	Six Sensors Bracelet for Force Myography based American Sign Language Recognition. , 2021, , .		1
46	Comparative of Swarm Intelligence based Wrappers for sEMG Signals Feature Selection. , 2021, , .		6
47	Enhanced piezoelectric performance of lead free BCZT based flexible nanogenerator. , 2021, , .		6
48	Electrochemical immunosensing of Helicobacter Pylori Bacteria In-Vitro: Review. , 2021, , .		0
49	An RFID-Based Monitoring and Localization System for Dementia Patients. , 2021, , .		4
50	Design of a Wireless Sensor Node based on MSP430FR5969 for Environment Monitoring Applications. , 2021, , .		1
51	Sliding Mode Control of an Inductive Power Transmission System with Maximum Efficiency. , 2021, , .		4
52	Electronic Embedded System for Stair Recognition Based on Possibilistic Modeling of Ultrasonic Signal. IEEE Sensors Journal, 2021, 21, 5787-5797.	4.7	5
53	Investigation of the Controllability of Inductive Power Transmission Systems based on Flexible Coils. , 2021, , .		2
54	Dry Flexible Electrode Based on MWCNT for Long Term Health Monitoring. , 2021, , .		1

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55	Investigation of Hybrid Epoxy Composite Electrodes for Electrochemical Applications. , 2021, , .		0
56	Tonic-Myoclonic Epileptic Seizure Classification based on Surface Electromyography. , 2021, , .		8
57	Hand Gesture Recognition Based on Force Myography Measurements using KNN Classifier. , 2021, , .		6
58	Eddy Current Sensor System for Tilting Independent In-Process Measurement of Magnetic Anisotropy. Sensors, 2021, 21, 2652.	3.8	8
59	Critical implementation issues of excitation signals for embedded wearable bioimpedance spectroscopy systems with limited resources. Measurement Science and Technology, 2021, 32, 084011.	2.6	21
60	A hybrid piezoelectric composite flexible film based on PVDF-HFP for boosting power generation. Composites Science and Technology, 2021, 208, 108769.	7.8	24
61	Pulse-based technique for hard faults identification in complex wire networks. , 2021, , .		3
62	Induction coil as sensor for contactless, continuous in-process determination of steel microstructure by means of Magnetic Induction Spectroscopy (MIS). CIRP Journal of Manufacturing Science and Technology, 2021, 33, 240-246.	4.5	6
63	Kombinierte Abstands- und Materialerkennung mit induktiven NÄherungssensoren. TM Technisches Messen, 2021, 88, 531-543.	0.7	1
64	An electromagnetic/magnetolectric transducer based on nonlinear RMSHI circuit for energy harvesting and sensing. Measurement: Journal of the International Measurement Confederation, 2021, 177, 109307.	5.0	8
65	Stability Analysis for Howland Current Source for Bioimpedance Measurement. , 2021, , .		1
66	A Review of Nanocomposite-Modified Electrochemical Sensors for Water Quality Monitoring. Sensors, 2021, 21, 4131.	3.8	56
67	Wearable Smart Band for American Sign Language Recognition With Polymer Carbon Nanocomposite-Based Pressure Sensors. , 2021, 5, 1-4.		16
68	Modeling the Conductivity Response to NO2 Gas of Films Based on MWCNT Networks. Sensors, 2021, 21, 4723.	3.8	7
69	Identification of Communication Cables Based on Scattering Parameters and a Support Vector Machine Algorithm. , 2021, 5, 1-4.		8
70	Edge Devices for Internet of Medical Things: Technologies, Techniques, and Implementation. Electronics (Switzerland), 2021, 10, 2104.	3.1	15
71	Amplitude and frequency estimator for aperiodic multi-frequency noisy vibration signals of a tram gearbox. Journal of Vibroengineering, 2021, 23, 1492-1507.	1.0	1
72	Flexible Ultra-Thin Nanocomposite Based Piezoresistive Pressure Sensors for Foot Pressure Distribution Measurement. Sensors, 2021, 21, 6082.	3.8	11

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73	Analysis of stress influence and plastic strain on magnetic properties during the forming process. <i>Advances in Industrial and Manufacturing Engineering</i> , 2021, 3, 100053.	2.1	1
74	A review on intelligent IoT systems design methodologies. <i>Measurement: Sensors</i> , 2021, 18, 100347.	1.7	2
75	Effect of MWCNT dispersion parameters on the performance of electrochemical sensors. <i>Measurement: Sensors</i> , 2021, 18, 100335.	1.7	2
76	Potential of Impedance Spectroscopy as a Manifold Non-invasive Method for Medical Applications. <i>Smart Sensors, Measurement and Instrumentation</i> , 2021, , 1-23.	0.6	0
77	Component Ensemble-based UML/MARTE Extensions for the Design of Dynamic Cyber-Physical Systems. , 2021, , .		1
78	Effect of hardening on electrical and magnetic properties of C-75 steel and characterization with multi-frequency inductance spectroscopy. <i>Measurement Science and Technology</i> , 2021, 32, 024009.	2.6	3
79	Precision Irrigation: An IoT-Enabled Wireless Sensor Network for Smart Irrigation Systems. <i>Women in Engineering and Science</i> , 2021, , 107-129.	0.4	10
80	Prospects of Wireless Energy-Aware Sensors for Smart Factories in the Industry 4.0 Era. <i>Electronics (Switzerland)</i> , 2021, 10, 2929.	3.1	20
81	Flexible Impedimetric Electronic Nose for High-Accurate Determination of Individual Volatile Organic Compounds by Tuning the Graphene Sensitive Properties. <i>Chemosensors</i> , 2021, 9, 360.	3.6	13
82	Hand Gesture Recognition based on Electrical Impedance Tomography Measurements using Genetic Algorithms. , 2021, , .		1
83	Comparative Study of Excitation Signals for Microcontroller-based EIS Measurement on Li-Ion Batteries. , 2021, , .		1
84	Regularized Linear Kramers-Kronig Transform for Consistency Check of Noisy Impedance Spectra with Logarithmic Frequency Distribution. , 2021, , .		4
85	A Crest-Factor Optimization Algorithm for Multisine Signals based on the Evolutionary Role Playing Game Theory. , 2021, , .		3
86	Modeling Reflections in a Complex Cable Structure with Impedance Mismatches. , 2021, , .		3
87	Investigation and Implementation of Elastomer Filament Strain Sensors for Monitoring of Hand Gestures. , 2021, , .		4
88	Functionalized PEDOT:PSS based sensor array for determination of metallic ions in smart agriculture. , 2021, , .		3
89	Electrical impedance analysis of carbon nanotube/epoxy nanocomposite-based piezoresistive strain sensors under uniaxial cyclic static tensile loading. <i>Journal of Composite Materials</i> , 2020, 54, 845-855.	2.4	19
90	Embedded Wideband Measurement System for Fast Impedance Spectroscopy Using Undersampling. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2020, 69, 3461-3469.	4.7	20

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91	Highly Sensitive Detection of NO <sub>2</sub> by Au and TiO <sub>2</sub> Nanoparticles Decorated SWCNTs Sensors. <i>Sensors</i> , 2020, 20, 12.	3.8	31
92	Manganese ferrite (MnFe <sub>2</sub> O <sub>4</sub> ) as potential nanosorbent for adsorption of uranium(VI) and thorium(IV). <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2020, 323, 515-537.	1.5	26
93	Accurate Dynamic Voltage and Frequency Scaling Measurement for Low-Power Microcontrollers in Wireless Sensor Networks. <i>Microelectronics Journal</i> , 2020, 105, 104874.	2.0	14
94	A Secure and Efficient Login and Data Exchange Scheme for an IoT Laboratory Management System. , 2020, , .		3
95	Characterization of a smart transducer for axial force measurements in vibrating environments. <i>Measurement: Journal of the International Measurement Confederation</i> , 2020, 166, 108157.	5.0	5
96	Microcontrollers for IoT: Optimizations, Computing Paradigms, and Future Directions. , 2020, , .		16
97	Electromagnetic Energy Harvester for Battery-Free IoT Solutions. , 2020, , .		10
98	Design of a DC-DC Boost Converter of Hybrid Energy Harvester for IoT Devices. , 2020, , .		4
99	Smart Multi-coil Inductive Power Transmission with IoT Based Visualization. , 2020, , .		3
100	Smart-Lab: Design and Implementation of an IoT-based Laboratory Platform. , 2020, , .		6
101	Impedance spectroscopy: From laboratory instrumentation to field sensors. <i>IEEE Instrumentation and Measurement Magazine</i> , 2020, 23, 4-7.	1.6	3
102	Benchmarking-Based Investigation on Energy Efficiency of Low-Power Microcontrollers. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2020, 69, 7505-7512.	4.7	16
103	Multiplexed Supply of a MISO Wireless Power Transfer System for Battery-Free Wireless Sensors. <i>Energies</i> , 2020, 13, 1244.	3.1	18
104	Four Sensors Bracelet for American Sign Language Recognition based on Wrist Force Myography. , 2020, , .		12
105	Surface Electrical Impedance Myography Measurements for Recognition of Numbers in American Sign Language. , 2020, , .		9
106	Summary of developing a test stand for realistic emulation of the cross-sectional area variation of hot rolled wire. <i>TM Technisches Messen</i> , 2020, 87, 332-342.	0.7	3
107	Calibration of an AC Zero Potential Circuit for Two-Dimensional Impedimetric Sensor Matrices. <i>IEEE Sensors Journal</i> , 2020, 20, 5019-5025.	4.7	7
108	Highly Sensitive Polymer/Multiwalled Carbon Nanotubes Based Pressure and Strain Sensors for Robotic Applications. <i>Studies in Systems, Decision and Control</i> , 2020, , 371-382.	1.0	7

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109	An optimized wearable coil for Wireless Power Transfer Applications. , 2020, , .		4
110	Intrusion Detection based on Correlation of Multiple Health Signals in WBSN. , 2020, , .		5
111	An Embedded ANN Raspberry PI for Inertial Sensor Based Human Activity Recognition. Lecture Notes in Computer Science, 2020, , 375-385.	1.3	6
112	Finite volume analysis of the temperature distribution during transurethral resection of the prostate. TM Technisches Messen, 2020, 87, 459-469.	0.7	0
113	Design of a DC-DC Boost Converter of Hybrid Energy Harvester for Low-Power Biomedical Applications. , 2020, , .		4
114	Electrodes Placement Investigation for Hand Gesture Recognition Based on Impedance Measurement. , 2020, , .		5
115	Modeling and Analysis of a Pendulum based Converter for Energy Harvesting from Random Vibration. , 2020, , .		0
116	Detection of Dimethoate Pesticide using rGO/PDAC modified silver Needle Electrodes. , 2020, , .		1
117	IEEE Workshop on Industrial and Medical Measurement and Sensor Technology " SENSORICA 2019. TM Technisches Messen, 2020, 87, 303-303.	0.7	0
118	Carbon Screen Printed Electrodes Functionalized with Cu(II)Pc for Phosphate Detection. , 2020, , .		0
119	Flexible lead-free piezoelectric polymer composite nanogenerator with enhanced crystallinity. , 2020, , .		0
120	Potential of carbonaceous materials for the realization of high performance sensors. , 2020, , .		1
121	Study of bistability behavior relative to the size of the composite plates. , 2020, , .		0
122	Possibilistic Feature Selection Method based on Discriminant Power for Class Discrimination. , 2020, , .		0
123	Implementation of a Dual Howland Current Source for Biological Tissue Characterization. , 2020, , .		0
124	Immunosensor based on MWNT and Au Nanoparticles for detection of 17 $\beta$ - estradiol in pg/mL. , 2020, , .		0
125	Single, Double and Quadruple Maximum Power Point Trackers for a Stand-Alone Photovoltaic System. , 2020, , .		0
126	Low-Cost Portable Impedance Analyzer based on STM32 for Electrochemical Sensors. , 2020, , .		0



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127	Influence of the Frequency Resolution on the Excitation Signals Power in Bio-impedance Measurement. , 2020, , .		3
128	IoT based Tracking of Wireless Sensor Nodes with RSSI Offset Compensation. , 2020, , .		5
129	Design and Control of an Inductive Power Transmission System with AC-AC Converter for a Constant Output Current. , 2020, , .		4
130	Simultaneous Pressure Sensors Monitoring System for Hand Gestures Recognition. , 2020, , .		10
131	Ultralow Power Voltage Supervisor for Ambient Power-Driven Microcontroller Systems. IEEE Transactions on Industrial Electronics, 2019, 66, 3843-3851.	7.9	7
132	Recent Trends of FPGA Used for Low-Power Wireless Sensor Network. IEEE Aerospace and Electronic Systems Magazine, 2019, 34, 28-38.	1.3	17
133	A magnetolectric vibration converter with tunable resonance frequency / Magnetoelektrischer Vibrationswandler mit einstellbarer Resonanzfrequenz. TM Technisches Messen, 2019, 86, 97-101.	0.7	5
134	Dynamic Autonomous Energy Consumption Measurement for a Wireless Sensor Node. , 2019, , .		5
135	Development of a hybrid vibration converter for real vibration source / Entwicklung eines Hybrid-Vibrationswandlers für eine echte Schwingungsquelle. TM Technisches Messen, 2019, 86, 57-61.	0.7	10
136	From the Editors of the Special Issue on Wireless Sensor Networks and Remote Sensing for Environmental Applications. IEEE Aerospace and Electronic Systems Magazine, 2019, 34, 5-5.	1.3	0
137	Measurement System for Lossy Capacitive Sensors: Application to Edible Oils Quality Assessment. Sensors, 2019, 19, 4299.	3.8	12
138	Smart Transducers for Energy Scavenging and Sensing in Vibrating Environments. Lecture Notes in Electrical Engineering, 2019, , 591-598.	0.4	1
139	Ion-Imprinted Electrochemical Sensor Based on Copper Nanoparticles-Polyaniline Matrix for Nitrate Detection. Journal of Sensors, 2019, 2019, 1-14.	1.1	57
140	Energy-Efficient Routing Algorithm Based on Localization and Clustering Techniques for Agricultural Applications. IEEE Aerospace and Electronic Systems Magazine, 2019, 34, 56-66.	1.3	26
141	Analysis of a Hybrid Micro-Electro-Mechanical Sensor Based on Graphene Oxide/Polyvinyl Alcohol for Humidity Measurements. Sensors, 2019, 19, 1720.	3.8	4
142	Humidity Sensing Behavior of Endohedral Li-Doped and Undoped SWCNT/SDBS Composite Films. Sensors, 2019, 19, 171.	3.8	8
143	High Accuracy and Simultaneous Scanning AC Measurement Approach for Two-Dimensional Resistive Sensor Arrays. IEEE Sensors Journal, 2019, 19, 4623-4628.	4.7	15
144	Bonding Optimization in Piezoelectric and Magnetostrictive Laminate Composites. , 2019, , .		0

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145	Investigation on Flexible Coils Geometries for Inductive Power Transmission Systems. , 2019, , .		3
146	Comparative Study of Howland Current Source Configurations for Accurate Biomedical Devices. , 2019, , .		2
147	Performance of Pressure Sensors based on Laser Induced Graphene Material on Polymeric Coated Substrate. , 2019, , .		2
148	Carbon nanotubes for high performance flexible piezoelectric polymer composite nanogenerators. , 2019, , .		5
149	Non-Contact Evaluation of Hardened Steel Samples using Inductive Spectroscopy. , 2019, , .		0
150	Muscle Movement Tracking Using Nanocomposite Based Pressure Sensor. , 2019, , .		11
151	Optimization of MWCNTs/Epoxy for High Strain Sensor Performance. , 2019, , .		0
152	Electronic Motion Capture Glove based on Highly Sensitive Nanocomposite Sensors. , 2019, , .		3
153	A Cost-Efficient and Continuous Ethernet Cable Diagnosis Technique based on Undersampling. , 2019, , .		2
154	Temperature Self-Compensated Strain Sensors based on MWCNT-Graphene Hybrid Nanocomposite. Journal of Composites Science, 2019, 3, 96.	3.0	15
155	Energy management based on fractional open circuit and P-SSHI techniques for piezoelectric energy harvesting. TM Technisches Messen, 2019, 86, 14-24.	0.7	14
156	Concept for an event-triggered wireless sensor network for vibration-based diagnosis in trams. Vibroengineering PROCEDIA, 2019, 27, 55-60.	0.5	4
157	Flexible piezoresistive sensor matrix based on a carbon nanotube PDMS composite for dynamic pressure distribution measurement. Journal of Sensors and Sensor Systems, 2019, 8, 1-7.	0.9	48
158	Highly sensitive capacitive pressure sensors for robotic applications based on carbon nanotubes and PDMS polymer nanocomposite. Journal of Sensors and Sensor Systems, 2019, 8, 87-94.	0.9	58
159	A smart energy harvester for axial-force measurements in vibrating environments. , 2018, , .		1
160	Design of a Wireless and Energy Autonomous Sensor Network for Condition Monitoring of Tram Drive Components. Designs, 2018, 2, 50.	2.4	3
161	Hybrid Micro Electro Mechanical Sensor Based on Graphene Oxide/Polyvinyl Alcohol for Humidity Measurements. Proceedings (mdpi), 2018, 2, .	0.2	1
162	Evaluation of the Cross Talking Effect in Piezoresistive Tactile Sensor Matrices. , 2018, , .		1

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163	A Smart Sensing Architecture for Misalignment Measurements. , 2018, , .		0
164	Performance Analysis of Received Signal Strength and Link Quality in Wireless Sensor Networks. , 2018, , .		13
165	Investigation of the Influence of CNT Functionalization on Dispersion Quality and Stability. , 2018, , .		1
166	Flexible strain sensing filaments based on styrene-butadiene-styrene co-polymer mixed with carbon particle filled thermoplastic polyurethane. , 2018, , .		6
167	Energy-efficient techniques in wireless sensor networks. , 2018, , 287-304.		14
168	Impedance spectroscopy advances and future trends: A comprehensive review. , 2018, , 1-22.		2
169	Inkjet Printing and Intense Pulsed Light Sintering of Multiwall Carbon Nanotubes for Sensor Applications. NIP & Digital Fabrication Conference, 2018, 2018, 33-37.	0.0	2
170	Potential of impedance spectroscopy for real-time assessing of food quality. IEEE Instrumentation and Measurement Magazine, 2018, 21, 44-48.	1.6	9
171	Next Generation Wireless Energy Aware Sensors for Internet of Things: A Review. , 2018, , .		30
172	Redundancy Elimination for Data Aggregation in Wireless Sensor Networks. , 2018, , .		22
173	A Fuzzy Based Energy Aware Unequal Clustering for Wireless Sensor Networks. Lecture Notes in Computer Science, 2018, , 126-131.	1.3	8
174	A Filtered RSSI Model Based on Hardware Characteristic for Localization Algorithm in Wireless Sensor Networks. , 2018, , .		7
175	A Tuned-RF Duty-Cycled Wake-Up Receiver with $\hat{\sim}90$ dBm Sensitivity. Sensors, 2018, 18, 86.	3.8	16
176	Electromagnetic transducer with bistable-RMSHI for energy harvesting from very weak kinetic sources. , 2018, , .		9
177	Measuring Energy Consumption of a Wireless Sensor Node During Transmission: panStamp. , 2018, , .		18
178	Processing and characterization of MWCNTs/epoxy nanocomposites thin films for strain sensing applications. Sensors and Actuators A: Physical, 2017, 257, 65-72.	4.1	47
179	Piezoresistive performance characterization of strain sensitive multi-walled carbon nanotube-epoxy nanocomposites. Sensors and Actuators A: Physical, 2017, 254, 61-68.	4.1	106
180	Assessing the electrical behaviour of MWCNTs/epoxy nanocomposite for strain sensing. Composites Part B: Engineering, 2017, 128, 91-99.	12.0	52

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181	Survey of electromagnetic and magnetoelectric vibration energy harvesters for low frequency excitation. Measurement: Journal of the International Measurement Confederation, 2017, 106, 251-263.	5.0	73
182	Shoe insole with MWCNT-PDMS-composite sensors for pressure monitoring. , 2017, , .		14
183	Improved VNA hardware for applications in civil engineering. , 2017, , .		4
184	Evaluation of simulator tools and power-aware scheduling model for wireless sensor networks. IET Computers and Digital Techniques, 2017, 11, 173-182.	1.2	15
185	Enhanced Passive RF-DC Converter Circuit Efficiency for Low RF Energy Harvesting. Sensors, 2017, 17, 546.	3.8	41
186	Investigation on the Influence of Solvents on MWCNT-PDMS Nanocomposite Pressure Sensitive Films. Proceedings (mdpi), 2017, 1, .	0.2	14
187	Impact of Surface Modification via Plasma Treatment on the Response of Strain Sensor Based on MWCNTs/epoxy Nanocomposite. , 2016, , .		0
188	Strain Sensor Based on MWCNT-Natural Rubber Composite for Wearable Electronics. , 2016, , .		4
189	AC Impedance Investigation of Multi-walled Carbon Nanotubes/PEDOT:PSS Nanocomposites Fabricated with Different Sonication Times. , 2016, , 105-116.		1
190	Investigation of the magnetostrictive effect in a terfenol-D plate under a non-uniform magnetic field by atomic force microscopy. Materials and Design, 2016, 97, 147-154.	7.0	13
191	Verfahren zum Abgleich von Gradiometern für medizinische Anwendungen. TM Technisches Messen, 2016, 83, 247-256.	0.7	1
192	Large air gap misalignment tolerable multi-coil inductive power transfer for wireless sensors. IET Power Electronics, 2016, 9, 1768-1774.	2.1	40
193	Workshop Medizinische Messtechnik in Mülheim an der Ruhr. TM Technisches Messen, 2016, 83, 245-246.	0.7	0
194	A low cost signal acquisition board design for myopathy's EMG database construction. , 2016, , .		3
195	Torque calibration with hysteresis brakes. , 2016, , .		0
196	Online cellphone battery entropy measurement for SoH estimation. , 2016, , .		3
197	Electromechanical Behavior of Chemically Reduced Graphene Oxide and Multi-walled Carbon Nanotube Hybrid Material. Nanoscale Research Letters, 2016, 11, 4.	5.7	35
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