

Egidio De Benedetto

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3732511/publications.pdf>

Version: 2024-02-01

79
papers

1,444
citations

257450

24
h-index

361022

35
g-index

81
all docs

81
docs citations

81
times ranked

1077
citing authors

#	ARTICLE	IF	CITATIONS
1	Experimental Assessment of the Use of a Novel Superabsorbent polymer (SAP) for the Optimization of Water Consumption in Agricultural Irrigation Process. <i>Water (Switzerland)</i> , 2014, 6, 2056-2069.	2.7	87
2	A New Method for Detecting Leaks in Underground Water Pipelines. <i>IEEE Sensors Journal</i> , 2012, 12, 1660-1667.	4.7	85
3	Quality and anti-adulteration control of vegetable oils through microwave dielectric spectroscopy. Measurement: <i>Journal of the International Measurement Confederation</i> , 2010, 43, 1031-1039.	5.0	77
4	Wearable Antennas for Remote Health Care Monitoring Systems. <i>International Journal of Antennas and Propagation</i> , 2017, 2017, 1-11.	1.2	58
5	A Comparative Analysis Between Customized and Commercial Systems for Complex Permittivity Measurements on Liquid Samples at Microwave Frequencies. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2013, 62, 1034-1046.	4.7	42
6	Design, implementation, and metrological characterization of a wearable, integrated AR-BCI hands-free system for health 4.0 monitoring. Measurement: <i>Journal of the International Measurement Confederation</i> , 2021, 177, 109280.	5.0	41
7	Broadband Reflectometry for Diagnostics and Monitoring Applications. <i>IEEE Sensors Journal</i> , 2011, 11, 451-459.	4.7	39
8	Leak detection through microwave reflectometry: From laboratory to practical implementation. Measurement: <i>Journal of the International Measurement Confederation</i> , 2014, 47, 963-970.	5.0	39
9	Wearable logo antenna for GPS/GSM-based tracking systems. <i>IET Microwaves, Antennas and Propagation</i> , 2016, 10, 1332-1338.	1.4	38
10	Fully-Textile, Wearable Chipless Tags for Identification and Tracking Applications. <i>Sensors</i> , 2020, 20, 429.	3.8	38
11	TDR-Based Measurements of Water Content in Construction Materials for In-the-Field Use and Calibration. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2018, 67, 1230-1237.	4.7	37
12	Recent advances in the TDR-based leak detection system for pipeline inspection. Measurement: <i>Journal of the International Measurement Confederation</i> , 2017, 98, 347-354.	5.0	36
13	Classification and adulteration control of vegetable oils based on microwave reflectometry analysis. <i>Journal of Food Engineering</i> , 2012, 112, 338-345.	5.2	35
14	A TDR-based system for the localization of leaks in newly installed, underground pipes made of any material. <i>Measurement Science and Technology</i> , 2012, 23, 105010.	2.6	35
15	Experimental Characterization and Performance Evaluation of Flexible Two-Wire Probes for TDR Monitoring of Liquid Level. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2014, 63, 2779-2788.	4.7	35
16	Dielectric Spectroscopy of Liquids Through a Combined Approach: Evaluation of the Metrological Performance and Feasibility Study on Vegetable Oils. <i>IEEE Sensors Journal</i> , 2009, 9, 1226-1233.	4.7	33
17	Embedded TDR wire-like sensing elements for monitoring applications. Measurement: <i>Journal of the International Measurement Confederation</i> , 2015, 68, 236-245.	5.0	33
18	Hydration Monitoring and Moisture Control of Cement-Based Samples Through Embedded Wire-Like Sensing Elements. <i>IEEE Sensors Journal</i> , 2015, 15, 1208-1215.	4.7	33

#	ARTICLE	IF	CITATIONS
19	Assessment of a TD-Based Method for Characterization of Antennas. IEEE Transactions on Instrumentation and Measurement, 2009, 58, 1412-1419.	4.7	31
20	Criteria for Automated Estimation of Time of Flight in TDR Analysis. IEEE Transactions on Instrumentation and Measurement, 2016, 65, 1215-1224.	4.7	30
21	Effect of the height of the observation line on the the diffraction curve in GPR prospecting. Near Surface Geophysics, 2015, 13, 243-252.	1.2	28
22	A comparative assessment of microwave-based methods for moisture content characterization in stone materials. Measurement: Journal of the International Measurement Confederation, 2018, 114, 493-500.	5.0	28
23	Feasibility of a Wearable Reflectometric System for Sensing Skin Hydration. Sensors, 2020, 20, 2833.	3.8	28
24	EXPERIMENTAL VALIDATION OF A TDR-BASED SYSTEM FOR MEASURING LEAK DISTANCES IN BURIED METAL PIPES. Progress in Electromagnetics Research, 2012, 132, 71-90.	4.4	26
25	Measurement System for Evaluating Dielectric Permittivity of Granular Materials in the 1.7â€“2.6-GHz Band. IEEE Transactions on Instrumentation and Measurement, 2016, 65, 1051-1059.	4.7	24
26	TDR-based monitoring of rising damp through the embedding of wire-like sensing elements in building structures. Measurement: Journal of the International Measurement Confederation, 2017, 98, 355-360.	5.0	22
27	Enhancement of SSVEPs Classification in BCI-Based Wearable Instrumentation Through Machine Learning Techniques. IEEE Sensors Journal, 2022, 22, 9087-9094.	4.7	22
28	Metrology-Based Design of a Wearable Augmented Reality System for Monitoring Patientâ€™s Vitals in Real Time. IEEE Sensors Journal, 2021, 21, 11176-11183.	4.7	20
29	Enhancement of leak detection in pipelines through timeâ€domain reflectometry/ground penetrating radar measurements. IET Science, Measurement and Technology, 2017, 11, 696-702.	1.6	19
30	Water Detection Using Bi-Wires as Sensing Elements: Comparison Between Capacimetry-Based and Time-of-Flight-Based Techniques. IEEE Sensors Journal, 2016, 16, 4309-4317.	4.7	18
31	A Microwave Measuring System for Detecting and Localizing Anomalies in Metallic Pipelines. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-11.	4.7	16
32	A Wearable Wireless Energy Link for Thin-Film Batteries Charging. International Journal of Antennas and Propagation, 2016, 2016, 1-9.	1.2	15
33	A Chipless Humidity Sensor for Wearable Applications. , 2019, , .		15
34	Microwave reflectometric methodologies for water content estimation in stone-made Cultural Heritage materials. Measurement: Journal of the International Measurement Confederation, 2018, 118, 275-281.	5.0	14
35	Wearable antennas for applications in remote assistance to elderly people. , 2017, , .		13
36	Novel PHB/Olive mill wastewater residue composite based film: Thermal, mechanical and degradation properties. Journal of Environmental Chemical Engineering, 2017, 5, 6001-6007.	6.7	13

#	ARTICLE	IF	CITATIONS
37	Low-Cost Chipless Sensor Tags for Wearable User Interfaces. IEEE Sensors Journal, 2019, 19, 10046-10053.	4.7	13
38	Radio-frequency Identification Based on Textile, Wearable, Chipless Tags for IoT Applications. , 2019, , .		13
39	Portable Microwave Reflectometry System for Skin Sensing. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-8.	4.7	13
40	Reproducibility analysis of a TDR-based monitoring system for intravenous drip infusions: Validation of a novel method for flow-rate measurement in IV infusion. , 2012, , .		12
41	Encapsulation of Lactobacillus kefir in alginate microbeads using a double novel aerosol technique. Materials Science and Engineering C, 2017, 77, 548-555.	7.3	12
42	Performance enhancement of wearable instrumentation for AR-based SSVEP BCI. Measurement: Journal of the International Measurement Confederation, 2022, 196, 111188.	5.0	12
43	Assessment and Scientific Progresses in the Analysis of Olfactory Evoked Potentials. Bioengineering, 2022, 9, 252.	3.5	12
44	A new measurement algorithm for TDR-based localization of large dielectric permittivity variations in long-distance cable systems. Measurement: Journal of the International Measurement Confederation, 2021, 174, 109066.	5.0	11
45	Accuracy improvement in the TDR-based localization of water leaks. Results in Physics, 2016, 6, 594-598.	4.1	10
46	An improved noninvasive resonance method for water content characterization of Cultural Heritage stone materials. Measurement: Journal of the International Measurement Confederation, 2018, 125, 257-261.	5.0	10
47	Improvement and Metrological Validation of TDR Methods for the Estimation of Static Electrical Conductivity. IEEE Transactions on Instrumentation and Measurement, 2010, 59, 1207-1215.	4.7	9
48	Microwave Wearable System for Sensing Skin Hydration. , 2021, , .		9
49	Study on the degradation of chitosan slurries. Results in Physics, 2016, 6, 728-729.	4.1	8
50	Dielectric permittivity diagnostics as a tool for cultural heritage preservation: Application on degradable globigerina limestone. Measurement: Journal of the International Measurement Confederation, 2018, 123, 270-274.	5.0	8
51	Combined Punctual and Diffused Monitoring of Concrete Structures Based on Dielectric Measurements. Sensors, 2021, 21, 4872.	3.8	8
52	Highly wearable SSVEP-based BCI: Performance comparison of augmented reality solutions for the flickering stimuli rendering. Measurement: Sensors, 2021, 18, 100305.	1.7	8
53	Design, Realization, and Experimental Characterization of an Admittance Cell for Low-Frequency Dielectric Permittivity Measurements on Liquids. IEEE Transactions on Instrumentation and Measurement, 2016, 65, 104-111.	4.7	7
54	A Wearable SSVEP BCI for AR-based, Real-time Monitoring Applications. , 2021, , .		7

#	ARTICLE	IF	CITATIONS
55	Innovative method for traceability of hides throughout the leather manufacturing process. International Journal of Advanced Manufacturing Technology, 2016, 86, 3563-3570.	3.0	6
56	A Wearable AR-based BCI for Robot Control in ADHD Treatment: Preliminary Evaluation of Adherence to Therapy. , 2021, , .		6
57	Soft Transducer for Patientâ€™s Vitals Telemonitoring with Deep Learning-Based Personalized Anomaly Detection. Sensors, 2022, 22, 536.	3.8	6
58	Performance and Usability Evaluation of an Extended Reality Platform to Monitor Patientâ€™s Health during Surgical Procedures. Sensors, 2022, 22, 3908.	3.8	6
59	Performance evaluation of a TDR-based system for detection of leaks in buried pipes. , 2012, , .		5
60	Extending industrial applicability of TDR liquid level monitoring through flexible probes. , 2013, , .		5
61	Accuracy analysis in the estimation of ToF of TDR signals. , 2015, , .		5
62	Advances in Reflectometric Sensing for Industrial Applications. Synthesis Lectures on Emerging Engineering Technologies, 2016, 2, 1-96.	0.2	4
63	Microwave reflectometric systems and monitoring apparatus for diffused-sensing applications. Acta IMEKO (2012), 2021, 10, 202.	0.7	3
64	Neural Network-Based Prediction and Monitoring of Blood Glucose Response to Nutritional Factors in Type-1 Diabetes. , 2022, , .		3
65	Localization of leaks in buried pipes through microwave reflectometry: A practical test case. , 2013, , .		2
66	A wireless power link on leather for applications in the clothing industry. , 2015, , .		2
67	Controlling the irrigation process in agriculture through elongated TDR-sensing cables. , 2017, , .		1
68	Reflectometric System for Continuous and Automated Monitoring of Irrigation in Agriculture. Advances in Agriculture, 2018, 2018, 1-10.	0.9	1
69	A New Microwave Method for On-Site Integrity Monitoring of Pipelines. , 2020, , .		1
70	Low-cost System for Skin Sensing. , 2021, , .		1
71	A ML-based Approach to Enhance Metrological Performance of Wearable Brain-Computer Interfaces. , 2022, , .		1
72	Qualitative Characterization of Granular Materials and Moisture Measurements. Lecture Notes in Electrical Engineering, 2011, , 85-131.	0.4	0

#	ARTICLE	IF	CITATIONS
73	Transmission line simulator for TDR-based measurements. , 2017, , .		0
74	Compensating for Density Effect in Permittivity-Based Moisture Content Measurements on Historic Masonry Materials. , 2018, , .		0
75	An Augmented Reality-Based Solution for Monitoring Patients Vitals in Surgical Procedures. Lecture Notes in Computer Science, 2021, , 406-415.	1.3	0
76	Broadband Reflectometry: Theoretical Background. Lecture Notes in Electrical Engineering, 2011, , 25-49.	0.4	0
77	BMR Characterization of Antennas through the Combined TD/FD Approach. Lecture Notes in Electrical Engineering, 2011, , 133-148.	0.4	0
78	Basic Physical Principles. Lecture Notes in Electrical Engineering, 2011, , 11-24.	0.4	0
79	Systems and Monitoring Apparata Based on Reflectometric Techniques for Enhanced Revealing. , 2021, , .		0