## Samir Trabelsi

List of Publications by Year in descending order

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SAMID TDARFISI

#	Article	IF	CITATIONS
1	Determination of foreign-material content in uncleaned peanuts by microwave measurements and machine learning techniques. Journal of Microwave Power and Electromagnetic Energy, 2022, 56, 3-17.	0.8	0
2	Use of dielectric mixture equations for the characterization of uncleaned peanuts. Measurement Food, 2022, 5, 100022.	1.6	0
3	Influence of Peanut Orientation on Microwave Sensing of Moisture Content in Cleaned Unshelled Peanuts. IEEE Sensors Journal, 2022, 22, 10515-10523.	4.7	2
4	Free-Space Transmission Dielectric Properties Measurement Based on Six-Port Technology. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-7.	4.7	9
5	Performance Comparison of Three Density-Independent Calibration Functions for Microwave Moisture Sensing in Unshelled Peanuts during Drying. Applied Engineering in Agriculture, 2020, 36, 667-672.	0.7	2
6	<i>Comparison of Drying Rate and Temperature Convergence in Grains and Seed with an Eighth-scale Grain Drying System</i> . , 2020, , .		0
7	Nondestructive Sensing of Water Activity From Measurement of the Dielectric Properties at Microwave Frequencies. , 2020, 4, 1-4.		3
8	In-line microwave reflection measurement technique for determining moisture content of biomass material. Biosystems Engineering, 2019, 188, 24-30.	4.3	12
9	Development of an Eighth-scale Grain Drying System with Real-time Microwave Monitoring of Moisture Content. Applied Engineering in Agriculture, 2019, 35, 767-774.	0.7	11
10	Density-independent calibration functions for nondestructive moisture sensing in flowing grain. Journal of Microwave Power and Electromagnetic Energy, 2019, 53, 69-80.	0.8	6
11	Calibration Algorithm for Rapid and Nondestructive Moisture Sensing in In-Shell Nuts. , 2019, 3, 1-4.		5
12	Measuring Dielectric Properties for Sensing Foreign Material in Peanuts. IEEE Sensors Journal, 2019, 19, 1756-1766.	4.7	14
13	Dielectric characterization of bentonite clay at various moisture contents and with mixtures of biomass in the microwave spectrum. Journal of Microwave Power and Electromagnetic Energy, 2018, 52, 3-15.	0.8	4
14	Open-Ended Half-Mode Substrate-Integrated Waveguide Sensor for Complex Permittivity Measurement. IEEE Sensors Journal, 2018, 18, 2759-2767.	4.7	15
15	Measuring changes in radio-frequency dielectric properties of chicken meat during storage. Journal of Food Measurement and Characterization, 2018, 12, 683-690.	3.2	5
16	<i>Real-time Monitoring of Moisture within an Eighth-scale Grain Bin during Drying</i> . , 2018, , .		3
17	Investigating effectiveness of density-independent calibration algorithms for nondestructive moisture sensing in flowing grains. , 2018, , .		2
18	Open-ended coplanar waveguide sensor for dielectric permittivity measurement. , 2018, , .		2

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19	Estimating Energy Costs of Nonbeneficial Dryer Operation by Using a Peanut Drying Monitoring System. Applied Engineering in Agriculture, 2018, 34, 491-496.	0.7	2
20	Microwave sensing of moisture in flowing biomass pellets. Biosystems Engineering, 2017, 155, 152-160.	4.3	17
21	Density-independent algorithm for sensing moisture content of sawdust based on reflection measurements. Biosystems Engineering, 2017, 158, 102-109.	4.3	7
22	Portable Six-Port Reflectometer for Determining Moisture Content of Biomass Material. IEEE Sensors Journal, 2017, 17, 4814-4819.	4.7	26
23	Open Transverse-Slot Substrate-Integrated Waveguide Sensor for Biomass Permittivity Determination. IEEE Transactions on Instrumentation and Measurement, 2017, 66, 2181-2188.	4.7	15
24	New Calibration Algorithms for Dielectric-Based Microwave Moisture Sensors. , 2017, 1, 1-4.		15
25	Using Microwave Sensing to Investigate Kernel Moisture Content at the Front and Back of Semitrailers during Peanut Drying. Applied Engineering in Agriculture, 2017, 33, 611-617.	0.7	7
26	Dielectric Properties of Biomass/Biochar Mixtures at Microwave Frequencies. Energies, 2017, 10, 502.	3.1	34
27	Principles of grain and seed moisture sensing through radio-frequency and microwave dielectric properties. , 2017, , .		1
28	<i>Using a Peanut Drying Monitoring System to Estimate Costs of Nonbeneficial Dryer Operation</i> . , 2017, , .		0
29	Dielectric properties-based method for rapid and nondestructive moisture sensing in almonds. Journal of Microwave Power and Electromagnetic Energy, 2016, 50, 94-105.	0.8	14
30	Use of material dielectric properties in agricultural applications. Journal of Microwave Power and Electromagnetic Energy, 2016, 50, 237-268.	0.8	12
31	Effects of temperature and material on sensing moisture content of pelleted biomass through dielectric properties. Biosystems Engineering, 2016, 149, 1-10.	4.3	15
32	Microwave sensing of quality attributes of agricultural and food products. IEEE Instrumentation and Measurement Magazine, 2016, 19, 36-41.	1.6	78
33	Historical development of grain moisture measurement and other food quality sensing through electrical properties. IEEE Instrumentation and Measurement Magazine, 2016, 19, 16-23.	1.6	36
34	Microwave moisture meter for in-shell peanut kernels. Food Control, 2016, 66, 283-290.	5.5	43
35	Variation of the dielectric properties of chicken meat with frequency and temperature. Journal of Food Measurement and Characterization, 2015, 9, 299-304.	3.2	16

Circuits and signal conditioning for a peanut-drying monitoring system. , 2015, , .

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37	Investigating the Influence of Aging on Radiofrequency Dielectric Properties of Chicken Meat. Journal of Microwave Power and Electromagnetic Energy, 2014, 48, 215-220.	0.8	9
38	Microwave dielectric method for the rapid, non-destructive determination of bulk density and moisture content of peanut hull pellets. Biosystems Engineering, 2013, 115, 332-338.	4.3	43
39	A calibration technique for measuring the complex permittivity of materials with planar transmission lines. , 2013, , .		3
40	Microwave moisture sensing through use of a piecewise density-independent function. , 2013, , .		1
41	Measuring the complex permittivity of poultry meat with a planar transmission-line sensor. , 2013, , .		0
42	Frequency and temperature dependence of dielectric properties of chicken meat. , 2012, , .		3
43	Measuring the complex permittivity of thin grain samples by the free-space transmission technique. , 2012, , .		7
44	Factors Influencing the Dielectric Properties of Agricultural and Food Products. Journal of Microwave Power and Electromagnetic Energy, 2012, 46, 93-107.	0.8	84
45	An Automated Approach to Peanut Drying with Real-time Monitoring of In-Shell Kernel Moisture Content with a Microwave Sensor. , 2012, , .		2
46	Use of grain and seed dielectric properties for moisture measurement. , 2011, , .		6
47	Measurement of the Dielectric Properties of Sawdust Between 0.5 and 15 GHz. IEEE Transactions on Instrumentation and Measurement, 2011, 60, 3384-3390.	4.7	31
48	Effects of "Natural―Water and "Added―Water on Prediction of Moisture Content and Bulk Density of Shelled Corn from Microwave Dielectric Properties. Journal of Microwave Power and Electromagnetic Energy, 2010, 44, 72-80.	0.8	3
49	Measurement of grain and seed moisture and density through permittivity relationships. , 2010, , .		3
50	Measurement of grain and seed microwave permittivity for moisture and density determination. , 2010, , .		6
51	Microwave moisture meter for granular and particulate materials. , 2010, , .		10
52	Dielectric properties of peanut-hull pellets at microwave frequencies. , 2010, , .		5
53	Microwave moisture sensor for rapid and nondestructive grading of peanuts. , 2010, , .		5
54	Microwave nondestructive sensing of moisture content in shelled peanuts independent of bulk density and with temperature compensation. Sensing and Instrumentation for Food Quality and Safety, 2009, 3, 114-121.	1.5	19

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55	Practical Microwave Meter for Sensing Moisture and Density of Granular Materials. , 2008, , .		8
56	Study of Fruit Permittivity Measurements for Quality Detection. , 2008, , .		9
57	Influence of Water Content on RF and Microwave Dielectric Behavior of Foods. Journal of Microwave Power and Electromagnetic Energy, 2008, 43, 13-23.	0.8	21
58	Microwave dielectric sensing of moisture content in shelled peanuts independent of bulk density and with temperature compensation. , 2008, , .		0
59	Investigation of dielectric sensing for fruit quality determination. , 2008, , .		10
60	Sensing Egg Quality during Storage by Radiofrequency Complex Permittivity Measurement. , 2007, , .		1
61	Inexpensive microwave moisture sensor for granular materials. , 2007, , .		3
62	Sensing quality of watermelons through dielectric permittivity. , 2007, , .		6
63	Unified microwave moisture sensing technique for grain and seed. Measurement Science and Technology, 2007, 18, 997-1003.	2.6	30
64	Near-Field Measurements of Dielectric Properties of Granular Materials with Microstrip Antennas for Microwave-Sensing Applications. Research in Nondestructive Evaluation, 2006, 17, 1-16.	1.1	2
65	Dielectric Spectroscopy of Honeydew Melons for Quality Sensing. Conference Record - IEEE Instrumentation and Measurement Technology Conference, 2006, , .	0.0	6
66	Nondestructive sensing of bulk density and moisture content in shelled peanuts from microwave permittivity measurements. Food Control, 2006, 17, 304-311.	5.5	29
67	Dielectric Properties of Honeydew Melons and Correlation with Quality. Journal of Microwave Power and Electromagnetic Energy, 2006, 41, 44-54.	0.8	30
68	Temperature-dependent behaviour of dielectric properties of bound water in grain at microwave frequencies. Measurement Science and Technology, 2006, 17, 2289-2293.	2.6	28
69	Nondestructive Moisture Sensing in Peanut Kernels from Microwave Permittivity Measurements on Unshelled Pods. Conference Record - IEEE Instrumentation and Measurement Technology Conference, 2006, , .	0.0	0
70	A Low-Cost Microwave Moisture Sensor. , 2006, , .		2
71	Microwave Dielectric Properties of Cereal Grain and Oilseed. , 2005, , .		7
72	Free-space measurement of dielectric properties of cereal grain and oilseed at microwave frequencies. Measurement Science and Technology, 2003, 14, 589-600.	2.6	158

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73	Microwave dielectric sensing of bulk density of granular materials. Measurement Science and Technology, 2001, 12, 2192-2197.	2.6	36
74	Regression Analysis of Microwave Spectra for Temperature-Compensated and Density-Independent Determination of Wheat Moisture Content. Applied Spectroscopy, 1998, 52, 1435-1446.	2.2	22
75	Density-independent functions for on-line microwave moisture meters: a general discussion. Measurement Science and Technology, 1998, 9, 570-578.	2.6	85
76	Nondestructive microwave characterization for determining the bulk density and moisture content of shelled corn. Measurement Science and Technology, 1998, 9, 1548-1556.	2.6	77