Kristen M Donnell

List of Publications by Year in descending order

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840776 794594 45 518 11 19 citations h-index g-index papers

45 45 45 482 all docs docs citations times ranked citing authors

#	Article	IF	CITATIONS
1	Active Microwave Thermography for Defect Detection of CFRP-Strengthened Cement-Based Materials. IEEE Transactions on Instrumentation and Measurement, 2016, 65, 2612-2620.	4.7	60
2	Characterization of Corroded Reinforced Steel Bars by Active Microwave Thermography. IEEE Transactions on Instrumentation and Measurement, 2015, 64, 2583-2585.	4.7	34
3	Application of Active Microwave Thermography to delamination detection. , 2014, , .		33
4	Evaluation of steel fiber distribution in cement-based mortars using active microwave thermography. Materials and Structures/Materiaux Et Constructions, 2016, 49, 5051-5065.	3.1	33
5	Active Microwave Thermography for Nondestructive Evaluation of Surface Cracks in Metal Structures. IEEE Transactions on Instrumentation and Measurement, 2019, 68, 576-585.	4.7	28
6	Effect of Sample Preparation on Microwave Material Characterization by Loaded Waveguide Technique. IEEE Transactions on Instrumentation and Measurement, 2016, 65, 1669-1677.	4.7	27
7	Detecting alkali-silica reaction: A multi-physics approach. Cement and Concrete Composites, 2016, 73, 123-135.	10.7	27
8	Microwave Imaging From Sparse Measurements for Near-Field Synthetic Aperture Radar. IEEE Transactions on Instrumentation and Measurement, 2017, 66, 2680-2692.	4.7	27
9	On the Crack Characteristic Signal From an Open-Ended Coaxial Probe. IEEE Transactions on Instrumentation and Measurement, 2014, 63, 1877-1879.	4.7	25
10	Detection of CFRP-concrete interfacial debonding using active microwave thermography. Composite Structures, 2021, 260, 113261.	5.8	20
11	Application of frequency selective surfaces for inspection of layered structures. , 2015, , .		17
12	Application of active microwave thermography to inspection of carbon fiber reinforced composites. , 2014, , .		15
13	Active Microwave Thermography to Detect and Locate Water Ingress. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 9774-9783.	4.7	14
14	Novel FSS-based sensor for concurrent temperature and strain sensing. , 2017, , .		13
15	Empirical Multiphase Dielectric Mixing Model for Cement-Based Materials Containing Alkali-Silica Reaction Gel. IEEE Transactions on Instrumentation and Measurement, 2017, 66, 2428-2436.	4.7	12
16	An Aperture Efficiency Approach for Optimization of FSS-Based Sensor Resolution. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 7837-7845.	4.7	12
17	Detection of Corrosion in Reinforcing Steel Bars Using Microwave Dual-Loaded Differential Modulated Scatterer Technique. IEEE Transactions on Instrumentation and Measurement, 2012, 61, 1-16.	4.7	11
18	Performance Metrics for Frequency Selective Surface-Based Sensors., 2017, 1, 1-4.		11

#	Article	IF	Citations
19	Embedded FSS sensing for structural health monitoring of bridge columns. , 2016, , .		10
20	A chirped pulse Fourier transform microwave spectrometer with multi-antenna detection. Journal of Molecular Spectroscopy, 2021, 376, 111396.	1.2	9
21	Health Monitoring of RAM-Coated Structures by Active Microwave Thermography. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-11.	4.7	8
22	Application of Electrically Invisible Antennas to the Modulated Scatterer Technique. IEEE Transactions on Instrumentation and Measurement, 2015, 64, 3526-3535.	4.7	7
23	Nondestructive assessment of microwave absorbing structures via active microwave thermography. , $2018,$, .		7
24	Application of Embedded Dual-Loaded Modulated Scatterer Technique (MST) to Multilayer Structures. IEEE Transactions on Instrumentation and Measurement, 2012, 61, 2799-2806.	4.7	6
25	Microwave characterization of 3D printed conductive composite materials. , 2018, , .		6
26	Microwave sensing of sand production from petroleum wells. , 2015, , .		5
27	Active frequency selective surface for strain sensing. , 2017, , .		5
28	Application of electrically invisible antennas to the Modulated Scatterer Technique. , 2013, , .		4
29	Effect of illumination pattern on FSS-based sensor resolution. , 2018, , .		4
30	Image Distortion Characterization due to Equivalent Monostatic Approximation in Near-Field Bistatic SAR Imaging. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 4898-4907.	4.7	4
31	Active Microwave Thermographic Measurement of In-Plane Thermal Diffusivity. , 2020, , .		4
32	Theoretical and experimental foundation of dual-loaded dipole scatterer as an embedded sensor. , 2010, , .		3
33	Microwave characterization of fly ash geopolymerization. , 2016, , .		3
34	Microwave materials characterization of geopolymer precursor powders. , 2018, , .		3
35	Application of the dual-loaded Modulated Scatterer Technique to multilayered material evaluation. , $2011,\ldots$		2
36	Design of a new bi-state active frequency selective surface. , 2016, , .		2

#	Article	IF	Citations
37	Wideband Multi-Loop FSS Absorber Design Based on Q- factor Approach. , 2018, , .		2
38	A Comprehensive Bi-Static Amplitude Compensated Range Migration Algorithm (AC-RMA). IEEE Transactions on Image Processing, 2021, 30, 7038-7049.	9.8	2
39	Synthetic beamforming for localized FSS-based sensing. , 2018, , .		1
40	Microwave Materials Characterization of Biodegradable Glass. , 2020, , .		1
41	Adjustable Resolution for Localized FSS-Based Sensing by Synthetic Beamforming. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-9.	4.7	1
42	In Memoriam Frank Reyes. IEEE Instrumentation and Measurement Magazine, 2015, 18, 63-67.	1.6	0
43	Mutual coupling reduction in orthogonally fed aperture-coupled patch antennas via an integrated metasurface. , 2017, , .		O
44	Improved grounded coplanar waveguideâ€toâ€multilayer substrate integrated waveguide transition for efficient feeding of an antipodal Vivaldi antenna for imaging applications. Microwave and Optical Technology Letters, 2021, 63, 1712-1718.	1.4	0
45	Pulsed-Active Microwave Thermography. , 2022, , .		O