

# Kristen M Donnell

## List of Publications by Year in descending order

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45  
papers

518  
citations

840776

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794594

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docs citations

45  
times ranked

482  
citing authors

#	ARTICLE	IF	CITATIONS
1	Adjustable Resolution for Localized FSS-Based Sensing by Synthetic Beamforming. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-9.	4.7	1
2	Pulsed-Active Microwave Thermography. , 2022, , .		0
3	A chirped pulse Fourier transform microwave spectrometer with multi-antenna detection. Journal of Molecular Spectroscopy, 2021, 376, 111396.	1.2	9
4	Detection of CFRP-concrete interfacial debonding using active microwave thermography. Composite Structures, 2021, 260, 113261.	5.8	20
5	A Comprehensive Bi-Static Amplitude Compensated Range Migration Algorithm (AC-RMA). IEEE Transactions on Image Processing, 2021, 30, 7038-7049.	9.8	2
6	Improved grounded coplanar waveguide-to-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
7	Health Monitoring of RAM-Coated Structures by Active Microwave Thermography. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-11.	4.7	8
8	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
9	Active Microwave Thermographic Measurement of In-Plane Thermal Diffusivity. , 2020, , .		4
10	Microwave Materials Characterization of Biodegradable Glass. , 2020, , .		1
11	An Aperture Efficiency Approach for Optimization of FSS-Based Sensor Resolution. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 7837-7845.	4.7	12
12	Active Microwave Thermography to Detect and Locate Water Ingress. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 9774-9783.	4.7	14
13	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
14	Wideband Multi-Loop FSS Absorber Design Based on Q- factor Approach. , 2018, , .		2
15	Effect of illumination pattern on FSS-based sensor resolution. , 2018, , .		4
16	Microwave characterization of 3D printed conductive composite materials. , 2018, , .		6
17	Synthetic beamforming for localized FSS-based sensing. , 2018, , .		1
18	Nondestructive assessment of microwave absorbing structures via active microwave thermography. , 2018, , .		7

#	ARTICLE	IF	CITATIONS
19	Microwave materials characterization of geopolymer precursor powders. , 2018, , .		3
20	Performance Metrics for Frequency Selective Surface-Based Sensors. , 2017, 1, 1-4.		11
21	Novel FSS-based sensor for concurrent temperature and strain sensing. , 2017, , .		13
22	Microwave Imaging From Sparse Measurements for Near-Field Synthetic Aperture Radar. IEEE Transactions on Instrumentation and Measurement, 2017, 66, 2680-2692.	4.7	27
23	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
24	Active frequency selective surface for strain sensing. , 2017, , .		5
25	Mutual coupling reduction in orthogonally fed aperture-coupled patch antennas via an integrated metasurface. , 2017, , .		0
26	Design of a new bi-state active frequency selective surface. , 2016, , .		2
27	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
28	Microwave characterization of fly ash geopolymerization. , 2016, , .		3
29	Embedded FSS sensing for structural health monitoring of bridge columns. , 2016, , .		10
30	Detecting alkali-silica reaction: A multi-physics approach. Cement and Concrete Composites, 2016, 73, 123-135.	10.7	27
31	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
32	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
33	Microwave sensing of sand production from petroleum wells. , 2015, , .		5
34	Application of Electrically Invisible Antennas to the Modulated Scatterer Technique. IEEE Transactions on Instrumentation and Measurement, 2015, 64, 3526-3535.	4.7	7
35	In Memoriam Frank Reyes. IEEE Instrumentation and Measurement Magazine, 2015, 18, 63-67.	1.6	0
36	Characterization of Corroded Reinforced Steel Bars by Active Microwave Thermography. IEEE Transactions on Instrumentation and Measurement, 2015, 64, 2583-2585.	4.7	34

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37	Application of frequency selective surfaces for inspection of layered structures. , 2015, , .		17
38	Application of Active Microwave Thermography to delamination detection. , 2014, , .		33
39	On the Crack Characteristic Signal From an Open-Ended Coaxial Probe. IEEE Transactions on Instrumentation and Measurement, 2014, 63, 1877-1879.	4.7	25
40	Application of active microwave thermography to inspection of carbon fiber reinforced composites. , 2014, , .		15
41	Application of electrically invisible antennas to the Modulated Scatterer Technique. , 2013, , .		4
42	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
43	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
44	Application of the dual-loaded Modulated Scatterer Technique to multilayered material evaluation. , 2011, , .		2
45	Theoretical and experimental foundation of dual-loaded dipole scatterer as an embedded sensor. , 2010, , .		3