

Kamran Ghorbani

List of Publications by Year in descending order

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91
papers

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331670

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all docs

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docs citations

91
times ranked

1531
citing authors

#	ARTICLE	IF	CITATIONS
1	Ultrahigh-Sensitivity Microwave Sensor for Microfluidic Complex Permittivity Measurement. IEEE Transactions on Microwave Theory and Techniques, 2019, 67, 4269-4277.	4.6	226
2	Differential Sensors Using Microstrip Lines Loaded With Two Split-Ring Resonators. IEEE Sensors Journal, 2018, 18, 5786-5793.	4.7	199
3	Microwave reflective biosensor for glucose level detection in aqueous solutions. Sensors and Actuators A: Physical, 2020, 301, 111662.	4.1	124
4	An Integrated Liquid Cooling System Based on Galinstan Liquid Metal Droplets. ACS Applied Materials & Interfaces, 2016, 8, 2173-2180.	8.0	109
5	Transmission Lines Terminated With LC Resonators for Differential Permittivity Sensing. IEEE Microwave and Wireless Components Letters, 2018, 28, 1149-1151.	3.2	100
6	A Reconfigurable FSS Using a Spring Resonator Element. IEEE Antennas and Wireless Propagation Letters, 2013, 12, 781-784.	4.0	75
7	Differential microwave sensor for characterization of glycerol-water solutions. Sensors and Actuators B: Chemical, 2020, 321, 128561.	7.8	71
8	Wireless strain measurement using circular microstrip patch antennas. Sensors and Actuators A: Physical, 2012, 184, 86-92.	4.1	70
9	Single-Frequency Amplitude-Modulation Sensor for Dielectric Characterization of Solids and Microfluidics. IEEE Sensors Journal, 2021, 21, 12189-12201.	4.7	61
10	Multi-Service Highly Sensitive Rectifier for Enhanced RF Energy Scavenging. Scientific Reports, 2015, 5, 9655.	3.3	58
11	Microwave Differential Frequency Splitting Sensor Using Magnetic-LC Resonators. Sensors, 2020, 20, 1066.	3.8	56
12	Highly Sensitive Phase-Variation Dielectric Constant Sensor Based on a Capacitively-Loaded Slow-Wave Transmission Line. IEEE Transactions on Circuits and Systems I: Regular Papers, 2021, 68, 2787-2799.	5.4	54
13	Dual-Mode Resonator for Simultaneous Permittivity and Thickness Measurement of Dielectrics. IEEE Sensors Journal, 2020, 20, 185-192.	4.7	53
14	Continuously Tunable Dual-Mode Bandstop Filter. IEEE Microwave and Wireless Components Letters, 2018, 28, 419-421.	3.2	46
15	Utilising microstrip patch antenna strain sensors for structural health monitoring. Journal of Intelligent Material Systems and Structures, 2012, 23, 169-182.	2.5	40
16	Embroidered Active Microwave Composite Preimpregnated Electronics-Pregtronics. IEEE Transactions on Microwave Theory and Techniques, 2016, 64, 3175-3186.	4.6	30
17	Differential Transmission Lines Loaded With Magnetic LC Resonators and Application in Common Mode Suppression. IEEE Transactions on Circuits and Systems I: Regular Papers, 2019, 66, 3811-3821.	5.4	29
18	Complex Dielectric Measurements of Forest Fire Ash at X-Band Frequencies. IEEE Geoscience and Remote Sensing Letters, 2011, 8, 859-863.	3.1	27

#	ARTICLE	IF	CITATIONS
19	Extremely Sensitive Microwave Microfluidic Dielectric Sensor Using a Transmission Line Loaded with Shunt LC Resonators. <i>Sensors</i> , 2021, 21, 6811.	3.8	26
20	Quality Factor Effect on the Wireless Range of Microstrip Patch Antenna Strain Sensors. <i>Sensors</i> , 2014, 14, 595-605.	3.8	25
21	Differential Bandpass Filters Based on Dumbbell-Shaped Defected Ground Resonators. <i>IEEE Microwave and Wireless Components Letters</i> , 2018, 28, 129-131.	3.2	24
22	Reconfigurable, Self-Sufficient Convective Heat Exchanger for Temperature Control of Microfluidic Systems. <i>Analytical Chemistry</i> , 2019, 91, 15784-15790.	6.5	22
23	Investigations of a Load-Bearing Composite Electrically Small Egyptian Axe Dipole Antenna. <i>IEEE Transactions on Antennas and Propagation</i> , 2017, 65, 3827-3837.	5.1	21
24	Discrete Holographic Antenna Embedded in a Structural Composite Laminate. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2020, 19, 358-362.	4.0	20
25	Microwave Resonance-Based Reflective Mode Displacement Sensor With Wide Dynamic Range. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2022, 71, 1-9.	4.7	20
26	A slot spiral in carbon-fibre composite laminate as a conformal load-bearing antenna. <i>Journal of Intelligent Material Systems and Structures</i> , 2014, 25, 1295-1305.	2.5	19
27	Dynamic Nanofin Heat Sinks. <i>Advanced Energy Materials</i> , 2014, 4, 1300537.	19.5	19
28	A Novel Method of Conductivity Measurements for Carbon-Fiber Monopole Antenna. <i>IEEE Transactions on Antennas and Propagation</i> , 2011, 59, 2120-2126.	5.1	16
29	Multitone Excitation Analysis in RF Energy Harvesters—Considerations and Limitations. <i>IEEE Internet of Things Journal</i> , 2018, 5, 2804-2816.	8.7	16
30	Capacitively Fed Cavity-Backed Slot Antenna in Carbon-Fiber Composite Panels. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2012, 11, 1028-1031.	4.0	15
31	Highly sensitive rectifier for efficient RF energy harvesting. , 2014, , .		15
32	The Nature of Fire Ash Particles: Microwave Material Properties, Dynamic Behavior, and Temperature Correlation. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2015, 8, 480-492.	4.9	14
33	Experimental Study of the Effect of Modern Automotive Paints on Vehicular Antennas. <i>IEEE Transactions on Antennas and Propagation</i> , 2011, 59, 434-442.	5.1	13
34	Highly sensitive FM frequency scavenger integrated in building materials. , 2015, , .		11
35	Quasi-Orbital Angular Momentum (Q-OAM) Generated by Quasi-Circular Array Antenna (QCA). <i>Scientific Reports</i> , 2018, 8, 8363.	3.3	11
36	Experimental BER Performance of Quasi-Circular Array Antenna for OAM Communications. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2020, 19, 1350-1354.	4.0	11

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37	3D Frequency Selective Surfaces with close band spacing. , 2012, , .		10
38	A Complex Dielectric Mixing Law Model for Forest Fire Ash Particulates. IEEE Geoscience and Remote Sensing Letters, 2012, 9, 832-835.	3.1	10
39	Determining High-Frequency Conductivity Based on Shielding Effectiveness Measurement Using Rectangular Waveguides. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 155-162.	4.7	10
40	Split-Ring Slot in the Broad-Wall of a Rectangular Waveguide. IEEE Antennas and Wireless Propagation Letters, 2014, 13, 991-994.	4.0	9
41	Microstrip Lines Loaded with Bandstop Resonators for High Resolution Permittivity Sensing. , 2018, , .		9
42	Temperature-Controlled Microfluidic System Incorporating Polymer Tubes. Analytical Chemistry, 2019, 91, 2498-2505.	6.5	9
43	An Adaptive All-Pass Filter for Time-Varying Delay Estimation. IEEE Signal Processing Letters, 2021, 28, 628-632.	3.6	9
44	The design and realization of uniplanar CPW fed PICA slot antennas. , 2008, , .		7
45	Reducing the Attenuation in CFRP Waveguide Using Carbon Fiber Veil. IEEE Microwave and Wireless Components Letters, 2017, 27, 1089-1091.	3.2	7
46	Conformal Voronoi Metasurface Antenna Embedded in a Composite Structural Laminate. IEEE Transactions on Antennas and Propagation, 2021, 69, 3717-3725.	5.1	7
47	3D tapered resonators for FSSs with incident angle independence. IET Microwaves, Antennas and Propagation, 2017, 11, 2228-2234.	1.4	6
48	Tomographic Characterization of a Multifunctional Composite High-Impedance Surface. IEEE Transactions on Microwave Theory and Techniques, 2018, 66, 2904-2913.	4.6	6
49	Complex Permittivity and Permeability of Vanadium Dioxide at Microwave Frequencies. IEEE Transactions on Microwave Theory and Techniques, 2019, 67, 2805-2811.	4.6	6
50	Highly Sensitive Microwave-Based Biosensor for Electrolytic Level Measurement in Water. , 2019, , .		6
51	Reflection Measurement of Fire Over Microwave Band: A Promising Active Method for Forest Fire Detection. IEEE Sensors Journal, 2021, 21, 2891-2898.	4.7	6
52	Structurally Integrated Radar in an Aerospace Composite Laminate. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2021, 11, 1835-1843.	2.5	6
53	A compact broadband spiral antenna. , 2008, , .		5
54	Coaxial Right/Left-Handed Transmission Line for Electronic Beam Steering in the Slotted Waveguide Antenna Stiffened Structure. IEEE Transactions on Microwave Theory and Techniques, 2014, 62, 773-778.	4.6	5

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55	Investigation of microwave active elements embedded in composite structures. , 2016, , .		5
56	Efficient Computation of Real-Time Distorted Conformal Load-Bearing Antenna Structure Under Dynamic Mechanical Load Based on Modal Superposition. IEEE Journal on Multiscale and Multiphysics Computational Techniques, 2018, 3, 246-254.	2.2	5
57	Microwave Microfluidic Sensor Using Microstrip Line Terminated with LC Resonators. , 2019, , .		5
58	RF Signal Multiplexer Embedded Into Multifunctional Composite Structure. IEEE Transactions on Microwave Theory and Techniques, 2019, 67, 4935-4943.	4.6	5
59	Oscillation and self-propulsion of Leidenfrost droplets enclosed in cylindrical cavities. Soft Matter, 2020, 16, 8854-8860.	2.7	5
60	Properties and Radar Cross-Section of forest fire ash particles at millimeter wave. , 2012, , .		4
61	Embroidered microwave antennas for aerospace applications. , 2016, , .		4
62	Enhancement of laminar convective heat transfer using microparticle suspensions. Heat and Mass Transfer, 2017, 53, 169-176.	2.1	4
63	Estimating the conductivity of carbon fibre veil (CFV) based on shielding effectiveness. , 2017, , .		4
64	Passive and active metamaterial-inspired radiating and scattering systems integrated into structural composite materials. , 2017, , .		4
65	Investigation of a conformal amplifier embedded in an aerospace composite structure. , 2017, , .		4
66	Multi-Functional Composite RF Four-Way Switch. , 2019, , .		4
67	Frequency Agile 90° Hybrid Coupler Using Barium Strontium Titanate Varactors. IEEE MTT-S International Microwave Symposium Digest IEEE MTT-S International Microwave Symposium, 2007, , .	0.0	3
68	Reconfigurable Two-Arm Spiral Antenna Microwave Photonic Polarization Diversity Technique. IEEE Photonics Technology Letters, 2009, 21, 1668-1670.	2.5	3
69	Conformal load bearing antenna structure using Carbon Fibre Reinforced Polymer (CFRP). , 2014, , .		3
70	Adaptive Vector Method for Motion Compensation in Ultra-Wideband Coherent Doppler Tomography. IEEE Transactions on Microwave Theory and Techniques, 2019, 67, 4591-4598.	4.6	3
71	Phase Variation Reflective-Mode Displacement Sensor Using a CPW Loaded with Dumbbell-Shaped Resonator. , 2021, , .		3
72	Integration of RF transmission lines in carbon fiber reinforced polymer (CFRP) structures. , 2013, , .		2

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73	Investigation of linear displacement noise in ultra-wideband Doppler tomography. , 2015, , .		2
74	Variable Directional Coupler Employing Microfluidics. , 2008, , .		1
75	CPW antenna for miniaturization of SAR system front-end. , 2012, , .		1
76	Spiral slotted waveguide antenna array. , 2013, , .		1
77	Reflectivity modeling of eucalypt ash particles with respects to moisture absorption over microwave and millimeter wave. , 2014, , .		1
78	Slotted waveguide antenna array using complimentary split ring resonator elements. , 2014, , .		1
79	Measurements on the Effects of Moisture on the Complex Permittivity of High Temperature Ash. IEEE Transactions on Microwave Theory and Techniques, 2016, , 1-9.	4.6	1
80	Wideband Measurement of the Phase Deviation and Time-Domain Response of an Open Fire. IEEE Geoscience and Remote Sensing Letters, 2017, 14, 314-318.	3.1	1
81	Microwave Microfluidic Sensor for Detecting Heavy Metal Pollution in Water. , 2021, , .		1
82	Low Cost Interdigital BST Varactors for Tunable Microwave Applications. , 2005, , .		0
83	RF vector sum phase shifter using a novel variable directional coupler. , 2008, , .		0
84	Sensitivity improved photonic Instantaneous Frequency Measurement receiver. , 2008, , .		0
85	Multiple Frequency Band Microwave Photonic Receiver. IEEE Transactions on Antennas and Propagation, 2009, 57, 3688-3692.	5.1	0
86	Higher Order Modes Propagation in Rectangular Waveguides Made from Anisotropic Material. , 2018, , .		0
87	Narrow Bandpass Filters Using Microstrip Lines Loaded with Asymmetric Bandstop Resonator Pairs. , 2019, , .		0
88	Different Levels of Approximation in High-Frequency Modeling of Carbon Fiber Reinforced Polymers. , 2020, , .		0
89	Depth Perception in Wideband Coherent Doppler Tomography Using the Dual-Layer Peak Matching Technique. IEEE Transactions on Microwave Theory and Techniques, 2020, 68, 1954-1963.	4.6	0
90	Phase Compensation Using Multipole PSVT Algorithm in Coherent Doppler Tomography. IEEE Microwave and Wireless Components Letters, 2021, 31, 969-972.	3.2	0

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91	Investigation of a Composite Embedded RF Passive Devices. , 2021, , .		0