

# James R Scott

## List of Publications by Year in descending order

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41  
papers

1,577  
citations

516710

16  
h-index

713466

21  
g-index

41  
all docs

41  
docs citations

41  
times ranked

1705  
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Single-Frequency Amplitude-Modulation Sensor for Dielectric Characterization of Solids and Microfluidics. IEEE Sensors Journal, 2021, 21, 12189-12201.	4.7	61
3	Dual-Mode Resonator for Simultaneous Permittivity and Thickness Measurement of Dielectrics. IEEE Sensors Journal, 2020, 20, 185-192.	4.7	53
4	Microwave reflective biosensor for glucose level detection in aqueous solutions. Sensors and Actuators A: Physical, 2020, 301, 111662.	4.1	124
5	Differential microwave sensor for characterization of glycerol-water solutions. Sensors and Actuators B: Chemical, 2020, 321, 128561.	7.8	71
6	Microwave Differential Frequency Splitting Sensor Using Magnetic-LC Resonators. Sensors, 2020, 20, 1066.	3.8	56
7	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
8	Microwave Microfluidic Sensor Using Microstrip Line Terminated with LC Resonators. , 2019, , .		5
9	Ultrahigh-Sensitivity Microwave Sensor for Microfluidic Complex Permittivity Measurement. IEEE Transactions on Microwave Theory and Techniques, 2019, 67, 4269-4277.	4.6	226
10	Highly Sensitive Microwave-Based Biosensor for Electrolytic Level Measurement in Water. , 2019, , .		6
11	A MDP-based Energy Efficient and Delay Aware Handover Algorithm. , 2019, , .		0
12	Adaptive X-Band Satellite Antenna for Internet-of-Things (IoT) over Satellite Applications. , 2019, , .		7
13	Narrow Bandpass Filters Using Microstrip Lines Loaded with Asymmetric Bandstop Resonator Pairs. , 2019, , .		0
14	Energy efficient and delay aware ternary-state transceivers for aerial base stations. Digital Communications and Networks, 2019, 5, 40-50.	5.0	8
15	Multitone Excitation Analysis in RF Energy Harvesters—Considerations and Limitations. IEEE Internet of Things Journal, 2018, 5, 2804-2816.	8.7	16
16	Continuously Tunable Dual-Mode Bandstop Filter. IEEE Microwave and Wireless Components Letters, 2018, 28, 419-421.	3.2	46
17	Microstrip Lines Loaded with Bandstop Resonators for High Resolution Permittivity Sensing. , 2018, , .		9
18	Transmission Lines Terminated With LC Resonators for Differential Permittivity Sensing. IEEE Microwave and Wireless Components Letters, 2018, 28, 1149-1151.	3.2	100

#	ARTICLE	IF	CITATIONS
19	Differential Sensors Using Microstrip Lines Loaded With Two Split-Ring Resonators. IEEE Sensors Journal, 2018, 18, 5786-5793.	4.7	199
20	Modal analysis of transmission lines periodically loaded with semi-lumped resonators. , 2018, , .		1
21	The guide wavelength in a CFRP WR90 waveguide. , 2017, , .		1
22	Narrowband bandpass frequency selective surface with miniaturized elements. , 2017, , .		7
23	RF phase sensitive amplifier. , 2016, , .		1
24	Energy efficiency of cellular base stations with ternary-state transceivers. , 2015, , .		5
25	Multi-Service Highly Sensitive Rectifier for Enhanced RF Energy Scavenging. Scientific Reports, 2015, 5, 9655.	3.3	58
26	Optimal rate adaptation for energy efficiency with MQAM and MFSK. , 2014, , .		8
27	Enhanced Charge Carrier Mobility in Two-Dimensional High Dielectric Molybdenum Oxide. Advanced Materials, 2013, 25, 109-114.	21.0	355
28	Enhanced Charge Carrier Mobility in Two-Dimensional High Dielectric Molybdenum Oxide (Adv. Mater.) Tj ETQq0 0.0rgBT /Qverlock 10	21.0	9
29	The reflectivity of carbon fiber reinforced polymer short circuit illuminated by guided microwaves. Applied Physics Letters, 2013, 103, 111910.	3.3	3
30	LOW THIRD-ORDER INTERMODULATION DISTORTION IN $\text{Ba}_{0.6}\text{Sr}_{0.4}\text{TiO}_3$ THIN FILM INTERDIGITAL CAPACITORS. Progress in Electromagnetics Research C, 2013, 44, 225-238.	0.9	0
31	CPW antenna for miniaturization of SAR system front-end. , 2012, , .		1
32	AN INVESTIGATION OF TRADEOFF OPTIONS FOR THE IMPROVEMENT OF SPURIOUS-FREE DYNAMIC RANGE IN HBT TRANSIMPEDANCE DISTRIBUTED AMPLIFIERS. Progress in Electromagnetics Research Letters, 2012, 30, 67-79.	0.7	0
33	A comparison of InP HBT transimpedance amplifier topologies for high dynamic range photonic links. , 2009, , .		2
34	Variable Directional Coupler Employing Microfluidics. , 2008, , .		1
35	RF vector sum phase shifter using a novel variable directional coupler. , 2008, , .		0
36	Broadband Equiangular Spiral Antenna with Embedded Chip Resistors. , 2007, , .		4

#	ARTICLE	IF	CITATIONS
37	Multi-Wavelength Variable Drive-Voltage Modulator for use in High Dynamic Range Photonic Links. , 2007, , .		2
38	Modelling aspects of surface acoustic wave gas sensors. Sensors and Actuators A: Physical, 1994, 42, 638-642.	4.1	6
39	Gigabit-per-second dual-gate MESFET switching and multiplexer operation for high-speed fiber-optic systems. Journal of Lightwave Technology, 1987, 5, 1459-1465.	4.6	1
40	A Simplified Microwave Model of the GaAs Dual-Gate MESFET. IEEE Transactions on Microwave Theory and Techniques, 1984, 32, 243-248.	4.6	21
41	Modeling and Characterization of Microstrip-to-Coaxial Transitions. IEEE Transactions on Microwave Theory and Techniques, 1981, 29, 799-805.	4.6	21