

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

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all docs

41
docs citations

41
times ranked

1705
citing authors

#	ARTICLE	IF	CITATIONS
1	Enhanced Charge Carrier Mobility in Two-Dimensional High Dielectric Molybdenum Oxide. <i>Advanced Materials</i> , 2013, 25, 109-114.	21.0	355
2	Ultrahigh-Sensitivity Microwave Sensor for Microfluidic Complex Permittivity Measurement. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2019, 67, 4269-4277.	4.6	226
3	Differential Sensors Using Microstrip Lines Loaded With Two Split-Ring Resonators. <i>IEEE Sensors Journal</i> , 2018, 18, 5786-5793.	4.7	199
4	Microwave reflective biosensor for glucose level detection in aqueous solutions. <i>Sensors and Actuators A: Physical</i> , 2020, 301, 111662.	4.1	124
5	Transmission Lines Terminated With LC Resonators for Differential Permittivity Sensing. <i>IEEE Microwave and Wireless Components Letters</i> , 2018, 28, 1149-1151.	3.2	100
6	Differential microwave sensor for characterization of glycerol-water solutions. <i>Sensors and Actuators B: Chemical</i> , 2020, 321, 128561.	7.8	71
7	Single-Frequency Amplitude-Modulation Sensor for Dielectric Characterization of Solids and Microfluidics. <i>IEEE Sensors Journal</i> , 2021, 21, 12189-12201.	4.7	61
8	Multi-Service Highly Sensitive Rectifier for Enhanced RF Energy Scavenging. <i>Scientific Reports</i> , 2015, 5, 9655.	3.3	58
9	Microwave Differential Frequency Splitting Sensor Using Magnetic-LC Resonators. <i>Sensors</i> , 2020, 20, 1066.	3.8	56
10	Highly Sensitive Phase-Variation Dielectric Constant Sensor Based on a Capacitively-Loaded Slow-Wave Transmission Line. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2021, 68, 2787-2799.	5.4	54
11	Dual-Mode Resonator for Simultaneous Permittivity and Thickness Measurement of Dielectrics. <i>IEEE Sensors Journal</i> , 2020, 20, 185-192.	4.7	53
12	Continuously Tunable Dual-Mode Bandstop Filter. <i>IEEE Microwave and Wireless Components Letters</i> , 2018, 28, 419-421.	3.2	46
13	Differential Transmission Lines Loaded With Magnetic LC Resonators and Application in Common Mode Suppression. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2019, 66, 3811-3821.	5.4	29
14	Modeling and Characterization of Microstrip-to-Coaxial Transitions. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 1981, 29, 799-805.	4.6	21
15	A Simplified Microwave Model of the GaAs Dual-Gate MESFET. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 1984, 32, 243-248.	4.6	21
16	Multitone Excitation Analysis in RF Energy Harvesters—Considerations and Limitations. <i>IEEE Internet of Things Journal</i> , 2018, 5, 2804-2816.	8.7	16
17	Enhanced Charge Carrier Mobility in Two-Dimensional High Dielectric Molybdenum Oxide (<i>Adv. Mater.</i>) Tj ETQq1 1 0,784314 rgBT / Ov	21.0	355
18	Microstrip Lines Loaded with Bandstop Resonators for High Resolution Permittivity Sensing. , 2018, , .		9

#	ARTICLE	IF	CITATIONS
19	Optimal rate adaptation for energy efficiency with MQAM and MFSK. , 2014, , .		8
20	Energy efficient and delay aware ternary-state transceivers for aerial base stations. Digital Communications and Networks, 2019, 5, 40-50.	5.0	8
21	Narrowband bandpass frequency selective surface with miniaturized elements. , 2017, , .		7
22	Adaptive X-Band Satellite Antenna for Internet-of-Things (IoT) over Satellite Applications. , 2019, , .		7
23	Modelling aspects of surface acoustic wave gas sensors. Sensors and Actuators A: Physical, 1994, 42, 638-642.	4.1	6
24	Highly Sensitive Microwave-Based Biosensor for Electrolytic Level Measurement in Water. , 2019, , .		6
25	Energy efficiency of cellular base stations with ternary-state transceivers. , 2015, , .		5
26	Microwave Microfluidic Sensor Using Microstrip Line Terminated with LC Resonators. , 2019, , .		5
27	Broadband Equiangular Spiral Antenna with Embedded Chip Resistors. , 2007, , .		4
28	The reflectivity of carbon fiber reinforced polymer short circuit illuminated by guided microwaves. Applied Physics Letters, 2013, 103, 111910.	3.3	3
29	Multi-Wavelength Variable Drive-Voltage Modulator for use in High Dynamic Range Photonic Links. , 2007, , .		2
30	A comparison of InP HBT transimpedance amplifier topologies for high dynamic range photonic links. , 2009, , .		2
31	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
32	Variable Directional Coupler Employing Microfluidics. , 2008, , .		1
33	CPW antenna for miniaturization of SAR system front-end. , 2012, , .		1
34	RF phase sensitive amplifier. , 2016, , .		1
35	The guide wavelength in a CFRP WR90 waveguide. , 2017, , .		1
36	Modal analysis of transmission lines periodically loaded with semi-lumped resonators. , 2018, , .		1

#	ARTICLE	IF	CITATIONS
37	RF vector sum phase shifter using a novel variable directional coupler. , 2008, , .		0
38	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
39	LOW THIRD-ORDER INTERMODULATION DISTORTION IN Ba _{0.6} Sr _{0.4} TiO ₃ THIN FILM INTERDIGITAL CAPACITORS. Progress in Electromagnetics Research C, 2013, 44, 225-238.	0.9	0
40	A MDP-based Energy Efficient and Delay Aware Handover Algorithm. , 2019, , .		0
41	Narrow Bandpass Filters Using Microstrip Lines Loaded with Asymmetric Bandstop Resonator Pairs. , 2019, , .		0