Mohammad Abdolrazzaghi

List of Publications by Year
in descending order

66 papers	2,341 citations	159585 30 h-index	223800 46 g-index
66 all docs	66 docs citations	66 times ranked	1278 citing authors

#	Article	IF	Citations
1	Printed concaveâ€like slot for bandwidth enhancement of insetâ€fed patch antenna on metallic surfaces. Microwave and Optical Technology Letters, 2021, 63, 1745-1752.	1.4	0
2	Highly Sensitive Microwave Sensor for High Precision Sensing of Water Contamination in Mineral Oil. IEEE Sensors Journal, 2021, 21, 13247-13254.	4.7	14
3	Non-contact real-time water and brine concentration monitoring in crude oil based on multi-variable analysis of microwave resonators. Measurement: Journal of the International Measurement Confederation, 2021, 177, 109286.	5.0	12
4	Non-recovery moisture sensor for breach integrity using the degenerate mode of planar microwave ring resonator. Sensors and Actuators A: Physical, 2021, 328, 112775.	4.1	1
5	Comparative Analysis of Machine Learning Techniques for Temperature Compensation in Microwave Sensors. IEEE Transactions on Microwave Theory and Techniques, 2021, 69, 4223-4236.	4.6	60
6	Noninvasive Glucose Sensing in Aqueous Solutions Using an Active Split-Ring Resonator. IEEE Sensors Journal, 2021, 21, 18742-18755.	4.7	84
7	High-Dynamic-Range Chipless Microwave Resonator-Based Strain Sensor. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-7.	4.7	12
8	Multiresonant Chipless RFID Array System for Coating Defect Detection and Corrosion Prediction. IEEE Transactions on Industrial Electronics, 2020, 67, 8868-8877.	7.9	65
9	Noncontact high sensitivity chipless tag microwave resonator for bitumen concentration measurement at high temperatures. Fuel, 2020, 265, 116916.	6.4	25
10	Investigation on planar microwave sensors with enhanced sensitivity from microfluidic integration. Sensors and Actuators A: Physical, 2020, 301, 111752.	4.1	35
11	Non-invasive continuous-time glucose monitoring system using a chipless printable sensor based on split ring microwave resonators. Scientific Reports, 2020, 10, 12980.	3.3	95
12	A Temperature-Compensated High-Resolution Microwave Sensor Using Artificial Neural Network. IEEE Microwave and Wireless Components Letters, 2020, 30, 919-922.	3.2	32
13	An SIW Oscillator for Microfluidic Lossy Medium Characterization. , 2020, , .		8
14	Selective Volume Fraction Sensing Using Resonant- Based Microwave Sensor and its Harmonics. IEEE Transactions on Microwave Theory and Techniques, 2020, 68, 3958-3968.	4.6	19
15	<scp>Steppedâ€impedance</scp> slotted <scp>microstripâ€fed</scp> patch antenna for <scp>onâ€metal radio frequency identification</scp> applications. Microwave and Optical Technology Letters, 2020, 62, 3324-3332.	1.4	4
16	Monitoring pH Level Using High-Resolution Microwave Sensor for Mitigation of Stress Corrosion Cracking in Steel Pipelines. IEEE Sensors Journal, 2020, 20, 7033-7043.	4.7	27
17	Exploiting Sensitivity Enhancement in Micro-wave Planar Sensors Using Intermodulation Products With Phase Noise Analysis. IEEE Transactions on Circuits and Systems I: Regular Papers, 2020, 67, 4382-4395.	5.4	42
18	Multifunctional Ultrahigh Sensitive Microwave Planar Sensor to Monitor Mechanical Motion: Rotation, Displacement, and Stretch. Sensors, 2020, 20, 1184.	3.8	25

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19	A novel miniaturized asymmetric CPW split ring resonator with extended field distribution pattern for sensing applications. Sensors and Actuators A: Physical, 2020, 304, 111769.	4.1	9
20	Machine Learning to Immune Microwave Sensors from Temperature Impact. , 2020, , .		4
21	Glycerol Concentration Monitoring Using High-resolution Non-contact RF Sensor. , 2020, , .		2
22	Locally Strong-Coupled Microwave Resonator Using PEMC Boundary for Distant Sensing Applications. IEEE Transactions on Microwave Theory and Techniques, 2019, 67, 4130-4139.	4.6	33
23	Being an Electromagnetic Engineer: It Is Not a Job, It Is a Lifestyle [Women in Engineering]. IEEE Antennas and Propagation Magazine, 2019, 61, 116-119.	1.4	6
24	Discrete Microwave Spectroscopy using Planar Resonator. , 2019, , .		4
25	Dual-Band Microwave Circuits for Selective Binary Gas Sensing System. IEEE Transactions on Microwave Theory and Techniques, 2019, 67, 4206-4219.	4.6	30
26	Sensitive Spectroscopy Using DSRR Array and Linvill Negative Impedance. , 2019, , .		8
27	Sensitivity Optimization in SRRs Using Interferometry Phase Cancellation. , 2019, , .		4
28	Relative Humidity Sensing using PANI/PVA integrated with Feedback Oscillator Circuit. , 2019, , .		6
29	Zero Power Consumption Chipless Distant Microwave Moisture Sensor for Smart Home Applications. , 2019, , .		3
30	Monitoring the residual capacity of activated carbon in an emission abatement system using a non-contact, high resolution microwave resonator sensor. Sensors and Actuators B: Chemical, 2019, 282, 218-224.	7.8	19
31	Ultraviolet sensing using a TiO₂nanotube integrated high resolution planar microwave resonator device. Nanoscale, 2018, 10, 4882-4889.	5.6	34
32	Strongly Enhanced Sensitivity in Planar Microwave Sensors Based on Metamaterial Coupling. IEEE Transactions on Microwave Theory and Techniques, 2018, 66, 1843-1855.	4.6	218
33	Noncontact and Nonintrusive Microwave-Microfluidic Flow Sensor for Energy and Biomedical Engineering. Scientific Reports, 2018, 8, 139.	3.3	125
34	Fast-forward solver for inhomogeneous media using machine learning methods: artificial neural network, support vector machine and fuzzy logic. Neural Computing and Applications, 2018, 29, 1583-1591.	5.6	12
35	A Microwave Ring Resonator Sensor for Early Detection of Breaches in Pipeline Coatings. IEEE Transactions on Industrial Electronics, 2018, 65, 1626-1635.	7.9	94
36	A 4 GHz Near-Field Monitoring Planar Oscillator Sensor. , 2018, , .		3

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37	A Phase-Noise Reduced Microwave Oscillator Sensor With Enhanced Limit of Detection Using Active Filter. IEEE Microwave and Wireless Components Letters, 2018, 28, 837-839.	3.2	19
38	A Dual-Mode Split-Ring Resonator to Eliminate Relative Humidity Impact. IEEE Microwave and Wireless Components Letters, 2018, 28, 939-941.	3.2	29
39	Sensitivity enhancement in planar microwave active-resonator using metal organic framework for CO2 detection. Sensors and Actuators B: Chemical, 2018, 255, 1561-1568.	7.8	61
40	High-Resolution RFID Liquid Sensing Using a Chipless Tag. IEEE Microwave and Wireless Components Letters, 2017, 27, 311-313.	3.2	39
41	A Novel Technique for Determining the Adsorption Capacity and Breakthrough Time of Adsorbents Using a Noncontact High-Resolution Microwave Resonator Sensor. Environmental Science & Technology, 2017, 51, 427-435.	10.0	16
42	Monitoring Solid Particle Deposition in Lossy Medium Using Planar Resonator Sensor. IEEE Sensors Journal, 2017, 17, 7981-7989.	4.7	50
43	Dual Active Resonator for Dispersion Coefficient Measurement of Asphaltene Nano-Particles. IEEE Sensors Journal, 2017, 17, 7248-7256.	4.7	33
44	Miniaturized Quarter-Mode Substrate Integrated Cavity Resonators for Humidity Sensing. IEEE Microwave and Wireless Components Letters, 2017, 27, 612-614.	3.2	44
45	Contactless Asphaltene Detection Using an Active Planar Microwave Resonator Sensor. Energy & Fuels, 2017, 31, 8784-8791.	5.1	26
46	A non-contact microwave sensor for monitoring the interaction of zeolite 13X with CO2 and CH4 in gaseous streams. Sensors and Actuators B: Chemical, 2017, 238, 1240-1247.	7.8	55
47	Robust Ultra-High Resolution Microwave Planar Sensor Using Fuzzy Neural Network Approach. IEEE Sensors Journal, 2017, 17, 323-332.	4.7	46
48	Compelling impact of intermodulation products of regenerative active resonators on sensitivity. , 2017, , .		3
49	Highly sensitive microwave split ring resonator sensor using gap extension for glucose sensing. , 2017, , .		21
50	Contactless asphaltene solid particle deposition monitoring using active microwave resonators. , 2016, , .		6
51	Wide dynamic range microwave planar coupled ring resonator for sensing applications. Applied Physics Letters, 2016, 108, .	3.3	50
52	Sensitivity enhancement of split ring resonator based liquid sensors. , 2016, , .		34
53	Particle size characterization using a high resolution planar resonator sensor in a lossy medium. Sensors and Actuators B: Chemical, 2016, 234, 332-337.	7.8	30
54	Effect of phosphonate monolayer adsorbate on the microwave photoresponse of TiO₂nanotube membranes mounted on a planar double ring resonator. Nanotechnology, 2016, 27, 375201.	2.6	37

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55	Enhanced Q double resonant active sensor for humidity and moisture effect elimination. , 2016, , .		14
56	Wireless Communication in Feedback-Assisted Active Sensors. IEEE Sensors Journal, 2016, 16, 8151-8157.	4.7	37
57	Selective microwave sensors exploiting the interaction of analytes with trap states in TiO₂nanotube arrays. Nanoscale, 2016, 8, 7466-7473.	5.6	69
58	Liquid sensing in aquatic environment using high quality planar microwave resonator. Sensors and Actuators B: Chemical, 2016, 225, 517-521.	7.8	57
59	Microwave ring resonator-based non-contact interface sensor for oil sands applications. Sensors and Actuators B: Chemical, 2016, 224, 632-639.	7.8	80
60	Non-contact liquid sensing using high resolution microwave microstrip resonator. , 2015, , .		22
61	Highly sensitive miniaturized bio-sensor using 2-layer double split ring resonators. , 2015, , .		4
62	High resolution microwave microstrip resonator for sensing applications. Sensors and Actuators A: Physical, 2015, 233, 224-230.	4.1	75
63	Liquid Sensing Using Active Feedback Assisted Planar Microwave Resonator. IEEE Microwave and Wireless Components Letters, 2015, 25, 621-623.	3.2	71
64	Microbead-assisted high resolution microwave planar ring resonator for organic-vapor sensing. Applied Physics Letters, 2015, 106, .	3.3	52
65	Detection of Volatile Organic Compounds Using Microwave Sensors. IEEE Sensors Journal, 2015, 15, 248-254.	4.7	66
66	A novel technique for rapid vapor detection using swelling polymer covered microstrip ring resonator. , 2014, , .		21