

Mohammad Abdolrazzaghi

List of Publications by Year in descending order

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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	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
2	Noncontact and Nonintrusive Microwave-Microfluidic Flow Sensor for Energy and Biomedical Engineering. Scientific Reports, 2018, 8, 139.	3.3	125
3	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
4	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
5	Noninvasive Glucose Sensing in Aqueous Solutions Using an Active Split-Ring Resonator. IEEE Sensors Journal, 2021, 21, 18742-18755.	4.7	84
6	Microwave ring resonator-based non-contact interface sensor for oil sands applications. Sensors and Actuators B: Chemical, 2016, 224, 632-639.	7.8	80
7	High resolution microwave microstrip resonator for sensing applications. Sensors and Actuators A: Physical, 2015, 233, 224-230.	4.1	75
8	Liquid Sensing Using Active Feedback Assisted Planar Microwave Resonator. IEEE Microwave and Wireless Components Letters, 2015, 25, 621-623.	3.2	71
9	Selective microwave sensors exploiting the interaction of analytes with trap states in TiO ₂ nanotube arrays. Nanoscale, 2016, 8, 7466-7473.	5.6	69
10	Detection of Volatile Organic Compounds Using Microwave Sensors. IEEE Sensors Journal, 2015, 15, 248-254.	4.7	66
11	Multiresonant Chipless RFID Array System for Coating Defect Detection and Corrosion Prediction. IEEE Transactions on Industrial Electronics, 2020, 67, 8868-8877.	7.9	65
12	Sensitivity enhancement in planar microwave active-resonator using metal organic framework for CO ₂ detection. Sensors and Actuators B: Chemical, 2018, 255, 1561-1568.	7.8	61
13	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
14	Liquid sensing in aquatic environment using high quality planar microwave resonator. Sensors and Actuators B: Chemical, 2016, 225, 517-521.	7.8	57
15	A non-contact microwave sensor for monitoring the interaction of zeolite 13X with CO ₂ and CH ₄ in gaseous streams. Sensors and Actuators B: Chemical, 2017, 238, 1240-1247.	7.8	55
16	Microbead-assisted high resolution microwave planar ring resonator for organic-vapor sensing. Applied Physics Letters, 2015, 106, .	3.3	52
17	Wide dynamic range microwave planar coupled ring resonator for sensing applications. Applied Physics Letters, 2016, 108, .	3.3	50
18	Monitoring Solid Particle Deposition in Lossy Medium Using Planar Resonator Sensor. IEEE Sensors Journal, 2017, 17, 7981-7989.	4.7	50

#	ARTICLE	IF	CITATIONS
19	Robust Ultra-High Resolution Microwave Planar Sensor Using Fuzzy Neural Network Approach. IEEE Sensors Journal, 2017, 17, 323-332.	4.7	46
20	Miniaturized Quarter-Mode Substrate Integrated Cavity Resonators for Humidity Sensing. IEEE Microwave and Wireless Components Letters, 2017, 27, 612-614.	3.2	44
21	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
22	High-Resolution RFID Liquid Sensing Using a Chipless Tag. IEEE Microwave and Wireless Components Letters, 2017, 27, 311-313.	3.2	39
23	Effect of phosphonate monolayer adsorbate on the microwave photoresponse of TiO ₂ nanotube membranes mounted on a planar double ring resonator. Nanotechnology, 2016, 27, 375201.	2.6	37
24	Wireless Communication in Feedback-Assisted Active Sensors. IEEE Sensors Journal, 2016, 16, 8151-8157.	4.7	37
25	Investigation on planar microwave sensors with enhanced sensitivity from microfluidic integration. Sensors and Actuators A: Physical, 2020, 301, 111752.	4.1	35
26	Sensitivity enhancement of split ring resonator based liquid sensors. , 2016, , .		34
27	Ultraviolet sensing using a TiO ₂ nanotube integrated high resolution planar microwave resonator device. Nanoscale, 2018, 10, 4882-4889.	5.6	34
28	Dual Active Resonator for Dispersion Coefficient Measurement of Asphaltene Nano-Particles. IEEE Sensors Journal, 2017, 17, 7248-7256.	4.7	33
29	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
30	A Temperature-Compensated High-Resolution Microwave Sensor Using Artificial Neural Network. IEEE Microwave and Wireless Components Letters, 2020, 30, 919-922.	3.2	32
31	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
32	Dual-Band Microwave Circuits for Selective Binary Gas Sensing System. IEEE Transactions on Microwave Theory and Techniques, 2019, 67, 4206-4219.	4.6	30
33	A Dual-Mode Split-Ring Resonator to Eliminate Relative Humidity Impact. IEEE Microwave and Wireless Components Letters, 2018, 28, 939-941.	3.2	29
34	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
35	Contactless Asphaltene Detection Using an Active Planar Microwave Resonator Sensor. Energy & Fuels, 2017, 31, 8784-8791.	5.1	26
36	Noncontact high sensitivity chipless tag microwave resonator for bitumen concentration measurement at high temperatures. Fuel, 2020, 265, 116916.	6.4	25

#	ARTICLE	IF	CITATIONS
37	Multifunctional Ultrahigh Sensitive Microwave Planar Sensor to Monitor Mechanical Motion: Rotation, Displacement, and Stretch. <i>Sensors</i> , 2020, 20, 1184.	3.8	25
38	Non-contact liquid sensing using high resolution microwave microstrip resonator. , 2015, , .		22
39	A novel technique for rapid vapor detection using swelling polymer covered microstrip ring resonator. , 2014, , .		21
40	Highly sensitive microwave split ring resonator sensor using gap extension for glucose sensing. , 2017, , .		21
41	A Phase-Noise Reduced Microwave Oscillator Sensor With Enhanced Limit of Detection Using Active Filter. <i>IEEE Microwave and Wireless Components Letters</i> , 2018, 28, 837-839.	3.2	19
42	Monitoring the residual capacity of activated carbon in an emission abatement system using a non-contact, high resolution microwave resonator sensor. <i>Sensors and Actuators B: Chemical</i> , 2019, 282, 218-224.	7.8	19
43	Selective Volume Fraction Sensing Using Resonant- Based Microwave Sensor and its Harmonics. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2020, 68, 3958-3968.	4.6	19
44	A Novel Technique for Determining the Adsorption Capacity and Breakthrough Time of Adsorbents Using a Noncontact High-Resolution Microwave Resonator Sensor. <i>Environmental Science & Technology</i> , 2017, 51, 427-435.	10.0	16
45	Enhanced Q double resonant active sensor for humidity and moisture effect elimination. , 2016, , .		14
46	Highly Sensitive Microwave Sensor for High Precision Sensing of Water Contamination in Mineral Oil. <i>IEEE Sensors Journal</i> , 2021, 21, 13247-13254.	4.7	14
47	Fast-forward solver for inhomogeneous media using machine learning methods: artificial neural network, support vector machine and fuzzy logic. <i>Neural Computing and Applications</i> , 2018, 29, 1583-1591.	5.6	12
48	Non-contact real-time water and brine concentration monitoring in crude oil based on multi-variable analysis of microwave resonators. <i>Measurement: Journal of the International Measurement Confederation</i> , 2021, 177, 109286.	5.0	12
49	High-Dynamic-Range Chipless Microwave Resonator-Based Strain Sensor. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2021, 70, 1-7.	4.7	12
50	A novel miniaturized asymmetric CPW split ring resonator with extended field distribution pattern for sensing applications. <i>Sensors and Actuators A: Physical</i> , 2020, 304, 111769.	4.1	9
51	Sensitive Spectroscopy Using DSRR Array and Linvill Negative Impedance. , 2019, , .		8
52	An SIW Oscillator for Microfluidic Lossy Medium Characterization. , 2020, , .		8
53	Contactless asphaltene solid particle deposition monitoring using active microwave resonators. , 2016, , .		6
54	Being an Electromagnetic Engineer: It Is Not a Job, It Is a Lifestyle [Women in Engineering]. <i>IEEE Antennas and Propagation Magazine</i> , 2019, 61, 116-119.	1.4	6

#	ARTICLE	IF	CITATIONS
55	Relative Humidity Sensing using PANI/PVA integrated with Feedback Oscillator Circuit. , 2019, , .		6
56	Highly sensitive miniaturized bio-sensor using 2-layer double split ring resonators. , 2015, , .		4
57	Discrete Microwave Spectroscopy using Planar Resonator. , 2019, , .		4
58	Sensitivity Optimization in SRRs Using Interferometry Phase Cancellation. , 2019, , .		4
59	<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
60	Machine Learning to Immune Microwave Sensors from Temperature Impact. , 2020, , .		4
61	Compelling impact of intermodulation products of regenerative active resonators on sensitivity. , 2017, , .		3
62	A 4 GHz Near-Field Monitoring Planar Oscillator Sensor. , 2018, , .		3
63	Zero Power Consumption Chipless Distant Microwave Moisture Sensor for Smart Home Applications. , 2019, , .		3
64	Glycerol Concentration Monitoring Using High-resolution Non-contact RF Sensor. , 2020, , .		2
65	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
66	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