

Mohammad Abdolrazzaghi

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

62

papers

1,572

citations

24

h-index

37

g-index

66

ext. papers

1,890

ext. citations

4.6

avg, IF

5.7

L-index

#	Paper	IF	Citations
62	Highly Sensitive Microwave Sensor for High Precision Sensing of Water Contamination in Mineral Oil. <i>IEEE Sensors Journal</i> , 2021 , 21, 13247-13254	4	6
61	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	4.6	2
60	Printed concave-like slot for bandwidth enhancement of inset-fed patch antenna on metallic surfaces. <i>Microwave and Optical Technology Letters</i> , 2021 , 63, 1745-1752	1.2	
59	Non-recovery moisture sensor for breach integrity using the degenerate mode of planar microwave ring resonator. <i>Sensors and Actuators A: Physical</i> , 2021 , 328, 112775	3.9	1
58	Comparative Analysis of Machine Learning Techniques for Temperature Compensation in Microwave Sensors. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2021 , 69, 4223-4236	4.1	18
57	Noninvasive Glucose Sensing in Aqueous Solutions Using an Active Split-Ring Resonator. <i>IEEE Sensors Journal</i> , 2021 , 21, 18742-18755	4	26
56	High-Dynamic-Range Chipless Microwave Resonator-Based Strain Sensor. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2021 , 70, 1-7	5.2	6
55	An SIW Oscillator for Microfluidic Lossy Medium Characterization 2020 ,		4
54	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	4.1	12
53	Stepped-impedance slotted microstrip-fed patch antenna for on-metal radio frequency identification applications. <i>Microwave and Optical Technology Letters</i> , 2020 , 62, 3324-3332	1.2	3
52	Monitoring pH Level Using High-Resolution Microwave Sensor for Mitigation of Stress Corrosion Cracking in Steel Pipelines. <i>IEEE Sensors Journal</i> , 2020 , 20, 7033-7043	4	13
51	Exploiting Sensitivity Enhancement in Micro-wave Planar Sensors Using Intermodulation Products With Phase Noise Analysis. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2020 , 67, 4382-4395	3.9	19
50	Multifunctional Ultrahigh Sensitive Microwave Planar Sensor to Monitor Mechanical Motion: Rotation, Displacement and Stretch. <i>Sensors</i> , 2020 , 20,	3.8	15
49	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	3.9	8
48	Multiresonant Chipless RFID Array System for Coating Defect Detection and Corrosion Prediction. <i>IEEE Transactions on Industrial Electronics</i> , 2020 , 67, 8868-8877	8.9	40
47	Noncontact high sensitivity chipless tag microwave resonator for bitumen concentration measurement at high temperatures. <i>Fuel</i> , 2020 , 265, 116916	7.1	17
46	Investigation on planar microwave sensors with enhanced sensitivity from microfluidic integration. <i>Sensors and Actuators A: Physical</i> , 2020 , 301, 111752	3.9	22

45	Non-invasive continuous-time glucose monitoring system using a chipless printable sensor based on split ring microwave resonators. <i>Scientific Reports</i> , 2020 , 10, 12980	4.9	52
44	A Temperature-Compensated High-Resolution Microwave Sensor Using Artificial Neural Network. <i>IEEE Microwave and Wireless Components Letters</i> , 2020 , 30, 919-922	2.6	15
43	Dual-Band Microwave Circuits for Selective Binary Gas Sensing System. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2019 , 67, 4206-4219	4.1	24
42	Sensitive Spectroscopy Using DSRR Array and Linvill Negative Impedance 2019 ,		5
41	Sensitivity Optimization in SRRs Using Interferometry Phase Cancellation 2019 ,		3
40	Locally Strong-Coupled Microwave Resonator Using PEMC Boundary for Distant Sensing Applications. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2019 , 67, 4130-4139	4.1	23
39	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	1.7	4
38	Discrete Microwave Spectroscopy using Planar Resonator 2019 ,		4
37	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	8.5	14
36	Ultraviolet sensing using a TiO nanotube integrated high resolution planar microwave resonator device. <i>Nanoscale</i> , 2018 , 10, 4882-4889	7.7	21
35	Strongly Enhanced Sensitivity in Planar Microwave Sensors Based on Metamaterial Coupling. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2018 , 66, 1843-1855	4.1	135
34	Noncontact and Nonintrusive Microwave-Microfluidic Flow Sensor for Energy and Biomedical Engineering. <i>Scientific Reports</i> , 2018 , 8, 139	4.9	89
33	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	4.8	8
32	. <i>IEEE Microwave and Wireless Components Letters</i> , 2018 , 28, 837-839	2.6	14
31	A Dual-Mode Split-Ring Resonator to Eliminate Relative Humidity Impact. <i>IEEE Microwave and Wireless Components Letters</i> , 2018 , 28, 939-941	2.6	21
30	Sensitivity enhancement in planar microwave active-resonator using metal organic framework for CO2 detection. <i>Sensors and Actuators B: Chemical</i> , 2018 , 255, 1561-1568	8.5	50
29	A Microwave Ring Resonator Sensor for Early Detection of Breaches in Pipeline Coatings. <i>IEEE Transactions on Industrial Electronics</i> , 2018 , 65, 1626-1635	8.9	66
28	A 4 GHz Near-Field Monitoring Planar Oscillator Sensor 2018 ,		3

27	High-Resolution RFID Liquid Sensing Using a Chipless Tag. <i>IEEE Microwave and Wireless Components Letters</i> , 2017 , 27, 311-313	2.6	33
26	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	10.3	12
25	Monitoring Solid Particle Deposition in Lossy Medium Using Planar Resonator Sensor. <i>IEEE Sensors Journal</i> , 2017 , 17, 7981-7989	4	35
24	Dual Active Resonator for Dispersion Coefficient Measurement of Asphaltene Nano-Particles. <i>IEEE Sensors Journal</i> , 2017 , 17, 7248-7256	4	22
23	Miniaturized Quarter-Mode Substrate Integrated Cavity Resonators for Humidity Sensing. <i>IEEE Microwave and Wireless Components Letters</i> , 2017 , 27, 612-614	2.6	32
22	Contactless Asphaltene Detection Using an Active Planar Microwave Resonator Sensor. <i>Energy & Fuels</i> , 2017 , 31, 8784-8791	4.1	19
21	A non-contact microwave sensor for monitoring the interaction of zeolite 13X with CO ₂ and CH ₄ in gaseous streams. <i>Sensors and Actuators B: Chemical</i> , 2017 , 238, 1240-1247	8.5	47
20	Robust Ultra-High Resolution Microwave Planar Sensor Using Fuzzy Neural Network Approach. <i>IEEE Sensors Journal</i> , 2017 , 17, 323-332	4	29
19	Compelling impact of intermodulation products of regenerative active resonators on sensitivity 2017 ,		3
18	Highly sensitive microwave split ring resonator sensor using gap extension for glucose sensing 2017 ,		13
17	Enhanced Q double resonant active sensor for humidity and moisture effect elimination 2016 ,		12
16	Wireless Communication in Feedback-Assisted Active Sensors. <i>IEEE Sensors Journal</i> , 2016 , 16, 8151-81574		24
15	Selective microwave sensors exploiting the interaction of analytes with trap states in TiO ₂ nanotube arrays. <i>Nanoscale</i> , 2016 , 8, 7466-73	7.7	60
14	Liquid sensing in aquatic environment using high quality planar microwave resonator. <i>Sensors and Actuators B: Chemical</i> , 2016 , 225, 517-521	8.5	47
13	Microwave ring resonator-based non-contact interface sensor for oil sands applications. <i>Sensors and Actuators B: Chemical</i> , 2016 , 224, 632-639	8.5	61
12	Contactless asphaltene solid particle deposition monitoring using active microwave resonators 2016 ,		2
11	Wide dynamic range microwave planar coupled ring resonator for sensing applications. <i>Applied Physics Letters</i> , 2016 , 108, 232906	3-4	39
10	Sensitivity enhancement of split ring resonator based liquid sensors 2016 ,		18

9	Particle size characterization using a high resolution planar resonator sensor in a lossy medium. <i>Sensors and Actuators B: Chemical</i> , 2016 , 234, 332-337	8.5	25
8	Effect of phosphonate monolayer adsorbate on the microwave photoresponse of TiO ₂ nanotube membranes mounted on a planar double ring resonator. <i>Nanotechnology</i> , 2016 , 27, 375201	3.4	31
7	High resolution microwave microstrip resonator for sensing applications. <i>Sensors and Actuators A: Physical</i> , 2015 , 233, 224-230	3.9	50
6	Liquid Sensing Using Active Feedback Assisted Planar Microwave Resonator. <i>IEEE Microwave and Wireless Components Letters</i> , 2015 , 25, 621-623	2.6	53
5	Microbead-assisted high resolution microwave planar ring resonator for organic-vapor sensing. <i>Applied Physics Letters</i> , 2015 , 106, 062903	3.4	45
4	Detection of Volatile Organic Compounds Using Microwave Sensors. <i>IEEE Sensors Journal</i> , 2015 , 15, 248-254	4	51
3	Non-contact liquid sensing using high resolution microwave microstrip resonator 2015 ,		19
2	Highly sensitive miniaturized bio-sensor using 2-layer double split ring resonators 2015 ,		3
1	2014 ,		19