

Mohammad Abdolrazzaghi

List of Publications by Citations

Source: <https://exaly.com/author-pdf/4699379/mohammad-abdolrazzaghi-publications-by-citations.pdf>

Version: 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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	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
61	Noncontact and Nonintrusive Microwave-Microfluidic Flow Sensor for Energy and Biomedical Engineering. <i>Scientific Reports</i> , 2018 , 8, 139	4.9	89
60	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
59	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
58	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
57	Liquid Sensing Using Active Feedback Assisted Planar Microwave Resonator. <i>IEEE Microwave and Wireless Components Letters</i> , 2015 , 25, 621-623	2.6	53
56	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
55	Detection of Volatile Organic Compounds Using Microwave Sensors. <i>IEEE Sensors Journal</i> , 2015 , 15, 248-254	4.54	51
54	High resolution microwave microstrip resonator for sensing applications. <i>Sensors and Actuators A: Physical</i> , 2015 , 233, 224-230	3.9	50
53	Sensitivity enhancement in planar microwave active-resonator using metal organic framework for CO ₂ detection. <i>Sensors and Actuators B: Chemical</i> , 2018 , 255, 1561-1568	8.5	50
52	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
51	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
50	Microbead-assisted high resolution microwave planar ring resonator for organic-vapor sensing. <i>Applied Physics Letters</i> , 2015 , 106, 062903	3.4	45
49	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
48	Wide dynamic range microwave planar coupled ring resonator for sensing applications. <i>Applied Physics Letters</i> , 2016 , 108, 232906	3.4	39
47	Monitoring Solid Particle Deposition in Lossy Medium Using Planar Resonator Sensor. <i>IEEE Sensors Journal</i> , 2017 , 17, 7981-7989	4	35
46	High-Resolution RFID Liquid Sensing Using a Chipless Tag. <i>IEEE Microwave and Wireless Components Letters</i> , 2017 , 27, 311-313	2.6	33

45	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
44	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
43	Robust Ultra-High Resolution Microwave Planar Sensor Using Fuzzy Neural Network Approach. <i>IEEE Sensors Journal</i> , 2017 , 17, 323-332	4	29
42	Noninvasive Glucose Sensing in Aqueous Solutions Using an Active Split-Ring Resonator. <i>IEEE Sensors Journal</i> , 2021 , 21, 18742-18755	4	26
41	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
40	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
39	Wireless Communication in Feedback-Assisted Active Sensors. <i>IEEE Sensors Journal</i> , 2016 , 16, 8151-8157	4	24
38	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
37	Dual Active Resonator for Dispersion Coefficient Measurement of Asphaltene Nano-Particles. <i>IEEE Sensors Journal</i> , 2017 , 17, 7248-7256	4	22
36	Investigation on planar microwave sensors with enhanced sensitivity from microfluidic integration. <i>Sensors and Actuators A: Physical</i> , 2020 , 301, 111752	3.9	22
35	Ultraviolet sensing using a TiO nanotube integrated high resolution planar microwave resonator device. <i>Nanoscale</i> , 2018 , 10, 4882-4889	7.7	21
34	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
33	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
32	2014 ,		19
31	Contactless Asphaltene Detection Using an Active Planar Microwave Resonator Sensor. <i>Energy & Fuels</i> , 2017 , 31, 8784-8791	4.1	19
30	Non-contact liquid sensing using high resolution microwave microstrip resonator 2015 ,		19
29	Sensitivity enhancement of split ring resonator based liquid sensors 2016 ,		18
28	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

27	Noncontact high sensitivity chipless tag microwave resonator for bitumen concentration measurement at high temperatures. <i>Fuel</i> , 2020 , 265, 116916	7.1	17
26	Multifunctional Ultrahigh Sensitive Microwave Planar Sensor to Monitor Mechanical Motion: Rotation, Displacement and Stretch. <i>Sensors</i> , 2020 , 20,	3.8	15
25	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
24	. <i>IEEE Microwave and Wireless Components Letters</i> , 2018 , 28, 837-839	2.6	14
23	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
22	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
21	Highly sensitive microwave split ring resonator sensor using gap extension for glucose sensing 2017 ,		13
20	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
19	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
18	Enhanced Q double resonant active sensor for humidity and moisture effect elimination 2016 ,		12
17	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
16	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, 1583-1594	4.8	8
15	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
14	High-Dynamic-Range Chipless Microwave Resonator-Based Strain Sensor. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2021 , 70, 1-7	5.2	6
13	Sensitive Spectroscopy Using DSRR Array and Linvill Negative Impedance 2019 ,		5
12	An SIW Oscillator for Microfluidic Lossy Medium Characterization 2020 ,		4
11	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
10	Discrete Microwave Spectroscopy using Planar Resonator 2019 ,		4

9	Sensitivity Optimization in SRRs Using Interferometry Phase Cancellation 2019 ,		3
8	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
7	Compelling impact of intermodulation products of regenerative active resonators on sensitivity 2017 ,		3
6	Highly sensitive miniaturized bio-sensor using 2-layer double split ring resonators 2015 ,		3
5	A 4 GHz Near-Field Monitoring Planar Oscillator Sensor 2018 ,		3
4	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
3	Contactless asphaltene solid particle deposition monitoring using active microwave resonators 2016 ,		2
2	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
1	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	