

Marios Sophocleous

List of Publications by Year in descending order

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Version: 2024-02-01

32
papers

451
citations

840776

11
h-index

752698

20
g-index

32
all docs

32
docs citations

32
times ranked

548
citing authors

#	ARTICLE	IF	CITATIONS
1	Trade-Offs in Sensor Systems Design: A Tutorial. IEEE Sensors Journal, 2022, 22, 10040-10061.	4.7	1
2	The ElectroUteroGraph: A Novel Tool for Assessing Uterine Contractions of Non-Pregnant Women. IEEE Open Journal of Engineering in Medicine and Biology, 2022, 3, 34-40.	2.3	3
3	Toward the direct and online detection of freshness and health-threatening additives in milk. Spectroscopy Letters, 2022, 55, 310-324.	1.0	2
4	Guest Editorial Special Issue on Sensors Tutorials: A Vigorous Dive Into the Vast Sea of Sensor-Related Knowledgeâ€”Part II. IEEE Sensors Journal, 2022, 22, 10062-10062.	4.7	0
5	AI-Driven Intent-Based Networking for 5G Enhanced Robot Autonomy. IFIP Advances in Information and Communication Technology, 2022, , 61-70.	0.7	2
6	Organic Electrochemical Transistors as an Emerging Platform for Bio-Sensing Applications: A Review. IEEE Sensors Journal, 2021, 21, 3977-4006.	4.7	27
7	Towards Fully Automated Decision-Making Systems for Precision Agriculture. Advances in Environmental Engineering and Green Technologies Book Series, 2021, , 71-93.	0.4	3
8	A Versatile, Stand-Alone, In-Field Sensor Node for Implementation in Precision Agriculture. IEEE Journal on Emerging and Selected Topics in Circuits and Systems, 2021, 11, 449-457.	3.6	8
9	Electrical Modelling of In-Vivo Impedance Spectroscopy of Nicotiana tabacum Plants. Frontiers in Electronics, 2021, 2, .	3.2	8
10	Towards optimization of plant cell detection in suspensions using impedance-based analyses and the unified equivalent circuit model. Scientific Reports, 2021, 11, 19310.	3.3	2
11	Electrical impedance spectroscopy of plant cells in aqueous buffer media over a wide frequency range of 4ÅHz to 20ÅGHz. MethodsX, 2021, 8, 101185.	1.6	2
12	Guest Editorial Special Issue on Sensors Tutorials: A Vigorous Dive Into the Vast Sea of Sensor-Related Knowledgeâ€”Part I. IEEE Sensors Journal, 2021, 21, 22133-22133.	4.7	0
13	The use of novel thick-film sensors in the estimation of soil structural changes through the correlation of soil electrical conductivity and soil water content. Sensors and Actuators A: Physical, 2020, 301, 111773.	4.1	7
14	Modeling and Performance Comparison of Screen-Printed, Impedance Spectroscopy Probes for Harsh Environments. IEEE Sensors Journal, 2020, 20, 2533-2542.	4.7	2
15	Electrical Impedance Spectroscopy of plant cells in aqueous biological buffer solutions and their modelling using a unified electrical equivalent circuit over a wide frequency range: 4Hz to 20ÅGHz. Biosensors and Bioelectronics, 2020, 168, 112485.	10.1	16
16	Solution-processed, low voltage tantalum-based memristive switches. Materials Letters, 2020, 269, 127676.	2.6	6
17	A versatile, stand-alone system for a screen-printed, soil-sensing array for Precision Agriculture. , 2020, , .		2
18	Instrumentation Challenges for Impedance Spectroscopy for Precision Agriculture Applications. , 2019, , .		1

#	ARTICLE	IF	CITATIONS
19	A Durable, Screen-Printed Sensor for <i>In Situ</i> and Real-Time Monitoring of Concrete's Electrical Resistivity Suitable for Smart Buildings/Cities and IoT. , 2018, 2, 1-4.		12
20	High-frequency, dielectric spectroscopy for the detection of electrophysiological/biophysical differences in different bacteria types and concentrations. <i>Analytica Chimica Acta</i> , 2018, 1028, 86-95.	5.4	15
21	A review of screen-printed silver/silver chloride (Ag/AgCl) reference electrodes potentially suitable for environmental potentiometric sensors. <i>Sensors and Actuators A: Physical</i> , 2017, 267, 106-120.	4.1	122
22	Electrical Resistivity Sensing Methods and Implications. , 2017, , .		7
23	A novel thick-film electrical conductivity sensor suitable for liquid and soil conductivity measurements. <i>Sensors and Actuators B: Chemical</i> , 2015, 213, 417-422.	7.8	19
24	A novel thick-film screen printed electrical conductivity sensor for measurement of liquid and soil conductivity. , 2014, , .		13
25	Base oil oxidation detection using novel chemical sensors and impedance spectroscopy measurements. <i>Sensors and Actuators B: Chemical</i> , 2014, 199, 247-258.	7.8	28
26	The effect on performance of fabrication parameter variations of thick-film screen printed silver/silver chloride potentiometric reference electrodes. <i>Sensors and Actuators A: Physical</i> , 2013, 197, 1-8.	4.1	27
27	Performance of miniaturised thick-film solid state pH sensors. <i>Sensors and Actuators A: Physical</i> , 2013, 202, 2-7.	4.1	35
28	Engine oil acidity detection using solid state ion selective electrodes. <i>Tribology International</i> , 2013, 65, 48-56.	5.9	31
29	Thick film screen printed environmental and chemical sensor array reference electrodes suitable for subterranean and subaqueous deployments. <i>Microelectronics International</i> , 2013, 30, 92-98.	0.6	22
30	An experimental analysis of Thick-Film solid-state reference electrodes. , 2012, , .		0
31	Performance of Miniaturised Thick-Film Solid State pH Sensors. <i>Procedia Engineering</i> , 2012, 47, 1299-1302.	1.2	6
32	An investigation into the effect of fabrication parameter variation on the characteristics of screen-printed thick-film silver/silver chloride reference electrodes. <i>Microelectronics International</i> , 2011, 28, 49-52.	0.6	22