# Marios Sophocleous

List of Publications by Year
in descending order



| 32 | 451 | 840776 11 | 752698 20 |
|---|---|---|---|
| papers | citations | h-index | g-index |

| 32 | 32 | 32 | 548 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | A review of screen-printed silver/silver chloride (Ag/AgCl) reference electrodes potentially suitable for environmental potentiometric sensors. Sensors and Actuators A: Physical, 2017, 267, 106-120. | 4.1 | 122 |
| 2 | Performance of miniaturised thick-film solid state pH sensors. Sensors and Actuators A: Physical, 2013, 202, 2-7. | 4.1 | 35 |
| 3 | Engine oil acidity detection using solid state ion selective electrodes. Tribology International, 2013, 65, 48-56. | 5.9 | 31 |
| 4 | Base oil oxidation detection using novel chemical sensors and impedance spectroscopy measurements. Sensors and Actuators B: Chemical, 2014, 199, 247-258. | 7.8 | 28 |
| 5 | The effect on performance of fabrication parameter variations of thick-film screen printed silver/silver chloride potentiometric reference electrodes. Sensors and Actuators A: Physical, 2013, 197, 1-8. | 4.1 | 27 |
| 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 | An investigation into the effect of fabrication parameter variation on the characteristics of screenâ€printed thickâ€film silver/silver chloride reference electrodes. Microelectronics International, 2011, 28, 49-52. | 0.6 | 22 |
| 8 | Thick film screen printed environmental and chemical sensor array reference electrodes suitable for subterranean and subaqueous deployments. Microelectronics International, 2013, 30, 92-98. | 0.6 | 22 |
| 9 | A novel thick-film electrical conductivity sensor suitable for liquid and soil conductivity measurements. Sensors and Actuators B: Chemical, 2015, 213, 417-422. | 7.8 | 19 |
| 10 | 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 20ÂGHz. Biosensors and Bioelectronics, 2020, 168, 112485. | 10.1 | 16 |
| 11 | High-frequency, dielectric spectroscopy for the detection of electrophysiological/biophysical differences in different bacteria types and concentrations. Analytica Chimica Acta, 2018, 1028, 86-95. | 5.4 | 15 |
| 12 | A novel thick-film screen printed electrical conductivity sensor for measurement of liquid and soil conductivity. , 2014, , . | | 13 |
| 13 | A Durable, Screen-Printed Sensor for <italic>In Situ</italic> and Real-Time Monitoring of Concrete's Electrical Resistivity Suitable for Smart Buildings/Cities and IoT. , 2018, 2, 1-4. | | 12 |
| 14 | 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 |
| 15 | Electrical Modelling of In-Vivo Impedance Spectroscopy of Nicotiana tabacum Plants. Frontiers in Electronics, 2021, 2, . | 3.2 | 8 |
| 16 | Electrical Resistivity Sensing Methods and Implications. , 2017, , . | | 7 |
| 17 | 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 |
| 18 | Performance of Miniaturised Thick-Film Solid State pH Sensors. Procedia Engineering, 2012, 47, 1299-1302. | 1.2 | 6 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Solution-processed, low voltage tantalum-based memristive switches. Materials Letters, 2020, 269, 127676. | 2.6 | 6 |
| 20 | Towards Fully Automated Decision-Making Systems for Precision Agriculture. Advances in Environmental Engineering and Green Technologies Book Series, 2021, , 71-93. | 0.4 | 3 |
| 21 | 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 |
| 22 | Modeling and Performance Comparison of Screen-Printed, Impedance Spectroscopy Probes for Harsh Environments. IEEE Sensors Journal, 2020, 20, 2533-2542. | 4.7 | 2 |
| 23 | 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 |
| 24 | Electrical impedance spectroscopy of plant cells in aqueous buffer media over a wide frequency range of 4ÂHz to 20ÂGHz. MethodsX, 2021, 8, 101185. | 1.6 | 2 |
| 25 | A versatile, stand-alone system for a screen-printed, soil-sensing array for Precision Agriculture. , 2020, , . | | 2 |
| 26 | Toward the direct and online detection of freshness and health-threatening additives in milk. Spectroscopy Letters, 2022, 55, 310-324. | 1.0 | 2 |
| 27 | AI-Driven Intent-Based Networking for 5G Enhanced Robot Autonomy. IFIP Advances in Information and Communication Technology, 2022, , 61-70. | 0.7 | 2 |
| 28 | Instrumentation Challenges for Impedance Spectroscopy for Precision Agriculture Applications. , 2019, , . | | 1 |
| 29 | Trade-Offs in Sensor Systems Design: A Tutorial. IEEE Sensors Journal, 2022, 22, 10040-10061. | 4.7 | 1 |
| 30 | An experimental analysis of Thick-Film solid-state reference electrodes. , 2012, , . | | 0 |
| 31 | 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 |
| 32 | 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 |