

Greg Bridges

List of Publications by Year in descending order

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96
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1,412
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all docs

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docs citations

96
times ranked

1245
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | A Compact Wireless Passive Harmonic Sensor for Packaged Food Quality Monitoring. IEEE Transactions on Microwave Theory and Techniques, 2022, 70, 2389-2397. | 4.6 | 17 |
| 2 | A Compact Wireless Passive Harmonic Sensor for Ammonia Sensing in Packaged Food. , 2022, 6, 1-4. | | 9 |
| 3 | Prototyping of Novel Isolator Design Based on Cavity Magnonics. IEEE Transactions on Microwave Theory and Techniques, 2022, 70, 3020-3028. | 4.6 | 2 |
| 4 | Contactless Air-Filled Substrate-Integrated Waveguide (CLAF-SIW) Resonator for Wireless Passive Temperature Sensing. IEEE Transactions on Microwave Theory and Techniques, 2022, 70, 3724-3731. | 4.6 | 5 |
| 5 | Full Beta-Dispersion Region Dielectric Spectra and Dielectric Models of Viable and Non-Viable CHO Cells. IEEE Journal of Electromagnetics, RF and Microwaves in Medicine and Biology, 2021, 5, 70-77. | 3.4 | 6 |
| 6 | TDR-Based Fault Detection in Grounding Electrodes Using a Rod Insertion Method. , 2021, , . | | 1 |
| 7 | Radar Cross Section-Based Chipless Tag With Built-In Reference for Relative Humidity Monitoring of Packaged Food Commodities. IEEE Sensors Journal, 2021, 21, 18773-18780. | 4.7 | 18 |
| 8 | Wireless Passive Sensors for Food Quality Monitoring: Improving the Safety of Food Products. IEEE Antennas and Propagation Magazine, 2020, 62, 76-89. | 1.4 | 52 |
| 9 | Parallel single-cell optical transit dielectrophoresis cytometer. Electrophoresis, 2020, 41, 720-728. | 2.4 | 6 |
| 10 | Cytoplasmic conductivity as a marker for bioprocess monitoring: Study of Chinese hamster ovary cells under nutrient deprivation and reintroduction. Biotechnology and Bioengineering, 2019, 116, 2896-2905. | 3.3 | 7 |
| 11 | Progression of change in membrane capacitance and cytoplasm conductivity of cells during controlled starvation using dual-frequency DEP cytometry. Analytica Chimica Acta, 2019, 1059, 59-67. | 5.4 | 16 |
| 12 | In-Flow Dielectrophoresis Sensor for Measuring the Dielectric Spectrum of Single Cells: Viable and Non-viable Cells. , 2019, , . | | 3 |
| 13 | UHF Measurement of Partial Discharge on Stator Bars Using Patch Antennas. , 2019, , . | | 1 |
| 14 | RCS Based Depolarizing Passive Tag with Improved Clutter Rejection for Potentiometric Gas Sensing. , 2019, , . | | 2 |
| 15 | Dielectric Properties of Cells. , 2019, , 585-598. | | 1 |
| 16 | Dielectric Properties of Single Cells Subjected to Heat Shock Using DEP Cytometry. IEEE Transactions on Microwave Theory and Techniques, 2018, 66, 5933-5940. | 4.6 | 13 |
| 17 | Radar Cross Section Based Passive Wireless Sensor for Volatile Sensing. , 2018, , . | | 1 |
| 18 | Microwave Near-Field Detection of Single Biological Cells and Nanoparticles. , 2018, , . | | 3 |

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|----|---|------|-----------|
| 19 | Quantitative Model for Ion Transport and Cytoplasm Conductivity of Chinese Hamster Ovary Cells. Scientific Reports, 2018, 8, 17818. | 3.3 | 19 |
| 20 | DEP Measurement of the Dielectric Properties of Single CHO Cells Under Thermal Stress. , 2018, , . | | 2 |
| 21 | Single cell dielectrophoresis study of apoptosis progression induced by controlled starvation. Bioelectrochemistry, 2018, 124, 73-79. | 4.6 | 13 |
| 22 | Dielectrophoresis study of temporal change in internal conductivity of single CHO cells after electroporation by pulsed electric fields. Biomicrofluidics, 2017, 11, 014111. | 2.4 | 13 |
| 23 | Change in the dielectric response of single cells induced by nutrient deprivation over a wide frequency range. , 2017, , . | | 5 |
| 24 | Dielectric model for Chinese hamster ovary cells obtained by dielectrophoresis cytometry. Biomicrofluidics, 2016, 10, 014111. | 2.4 | 38 |
| 25 | Two-frequency dielectrophoresis analysis of viable/non-viable single CHO cells employing a microwave cytometer. , 2016, , . | | 1 |
| 26 | In-flow dielectric characterization of single biological cells using a wideband DEP cytometer. , 2016, , . | | 3 |
| 27 | Stacked coupled-coil approach for multi-parameter passive wireless sensing. , 2016, , . | | 0 |
| 28 | Multi-Frequency DEP Cytometer Employing a Microwave Sensor for Dielectric Analysis of Single Cells. IEEE Transactions on Microwave Theory and Techniques, 2016, , 1-9. | 4.6 | 23 |
| 29 | Multi-frequency DEP cytometer employing a microwave interferometer for the dielectric analysis of micro-particles. , 2015, , . | | 4 |
| 30 | Torque-mixing magnetic resonance spectroscopy. Science, 2015, 350, 798-801. | 12.6 | 37 |
| 31 | Near-field coupled RFID tag for carbon dioxide concentration sensing. , 2015, , . | | 1 |
| 32 | Monitoring acidic and basic volatile concentration using a pH-electrode based wireless passive sensor. Sensors and Actuators B: Chemical, 2015, 209, 803-810. | 7.8 | 33 |
| 33 | Non-destructive detection of fish spoilage using a wireless basic volatile sensor. Talanta, 2015, 134, 718-723. | 5.5 | 51 |
| 34 | Monitoring the dielectric response of single cells following mitochondrial adenosine triphosphate synthase inhibition by oligomycin using a dielectrophoretic cytometer. Biomicrofluidics, 2014, 8, 064114. | 2.4 | 6 |
| 35 | Dielectrophoresis study of electroporation effects on Chinese hamster ovary cells. , 2014, , . | | 0 |
| 36 | An inductively coupled passive tag for remote basic volatile sensing. , 2014, , . | | 1 |

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|----|---|-----|-----------|
| 37 | Corrosion Potential Sensor for Remote Monitoring of Civil Structure Based on Printed Circuit Board Sensor. IEEE Transactions on Instrumentation and Measurement, 2014, 63, 2422-2431. | 4.7 | 29 |
| 38 | Near field chipless tag for food quality monitoring. , 2014, , . | | 6 |
| 39 | Fluid Embeddable Coupled Coil Sensor for Wireless pH Monitoring in a Bioreactor. IEEE Transactions on Instrumentation and Measurement, 2014, 63, 1337-1346. | 4.7 | 23 |
| 40 | An embedded inductively coupled printed circuit board based corrosion potential sensor. , 2013, , . | | 4 |
| 41 | The changing dielectric properties of CHO cells can be used to determine early apoptotic events in a bioprocess. Biotechnology and Bioengineering, 2013, 110, 2902-2914. | 3.3 | 46 |
| 42 | Membrane dielectric dispersion in nanosecond pulsed electroporation of biological cells. IEEE Transactions on Dielectrics and Electrical Insulation, 2013, 20, 1256-1265. | 2.9 | 33 |
| 43 | An MST-based microwave tomography system using homodyne receiver. , 2013, , . | | 2 |
| 44 | Microfluidic device for simultaneous pulsed electric field electroporation and dielectrophoresis studies of single biological cells. , 2013, , . | | 2 |
| 45 | Wireless passive sensor for pH monitoring inside a small bioreactor. , 2013, , . | | 8 |
| 46 | Semi-automated detection of single cell signatures from a dielectrophoretic cytometer. , 2013, , . | | 1 |
| 47 | A Wireless Passive Sensor for Temperature Compensated Remote pH Monitoring. IEEE Sensors Journal, 2013, 13, 2428-2436. | 4.7 | 65 |
| 48 | Differential electronic detector to monitor apoptosis using dielectrophoresis-induced translation of flowing cells (dielectrophoresis cytometry). Biomicrofluidics, 2013, 7, 024101. | 2.4 | 39 |
| 49 | A wireless passive pH sensor for real-time in vivo milk quality monitoring. , 2012, , . | | 5 |
| 50 | Gain compensated symmetric loaded transmission line exhibiting bidirectional negative group delay. Applied Physics A: Materials Science and Processing, 2012, 109, 1087-1093. | 2.3 | 2 |
| 51 | Design procedure of a filter-antenna module implemented in substrate integrated waveguide technology. Analog Integrated Circuits and Signal Processing, 2012, 73, 895-907. | 1.4 | 2 |
| 52 | Nondestructive two-dimensional phase imaging of embedded defects via on-chip spintronic sensor. Applied Physics Letters, 2012, 100, 252406. | 3.3 | 14 |
| 53 | Electrode Potential-Based Coupled Coil Sensor for Remote pH Monitoring. IEEE Sensors Journal, 2011, 11, 2813-2819. | 4.7 | 22 |
| 54 | Bilateral Gain-Compensated Negative Group Delay Circuit. IEEE Microwave and Wireless Components Letters, 2011, 21, 308-310. | 3.2 | 35 |

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|----|--|-----|-----------|
| 55 | A wireless passive sensor for pH monitoring employing temperature compensation. , 2011, , . | | 1 |
| 56 | Filter-Antenna Module Using Substrate Integrated Waveguide Cavities. IEEE Antennas and Wireless Propagation Letters, 2011, 10, 59-62. | 4.0 | 83 |
| 57 | Asymptotic Limits of Negative Group Delay in Active Resonator-Based Distributed Circuits. IEEE Transactions on Circuits and Systems I: Regular Papers, 2011, 58, 1727-1735. | 5.4 | 78 |
| 58 | Wireless Passive Sensor for Remote pH Monitoring. Journal of Nanotechnology in Engineering and Medicine, 2011, 2, . | 0.8 | 2 |
| 59 | Transient-imposed limitations of negative group delay circuits. , 2010, , . | | 6 |
| 60 | Finite Formulation for Modeling Guided Wave Structures Embedded in a Lossy Half-Space. International Journal for Computational Methods in Engineering Science and Mechanics, 2010, 11, 146-156. | 2.1 | 1 |
| 61 | The effect of dielectric relaxation in nanosecond pulse electroporation of biological cells. , 2010, , . | | 2 |
| 62 | Coupled coil sensor for detecting surface corrosion on steel reinforcement. , 2010, , . | | 7 |
| 63 | A wireless passive pH sensor based on pH electrode potential measurement. , 2010, , . | | 3 |
| 64 | Buried cable parameter extraction using a full-space unbounded conformal mapping technique. , 2009, , . | | 3 |
| 65 | Microwave frequency sensor for detection of biological cells in microfluidic channels. Biomicrofluidics, 2009, 3, 034103. | 2.4 | 64 |
| 66 | A microwave interferometric system for simultaneous actuation and detection of single biological cells. Lab on A Chip, 2009, 9, 3406. | 6.0 | 98 |
| 67 | RF Cavity Passive Wireless Sensors With Time-Domain Gating-Based Interrogation for SHM of Civil Structures. IEEE Sensors Journal, 2009, 9, 1430-1438. | 4.7 | 66 |
| 68 | Full-wave-based transmission-line model for lossy-substrate multiconductor interconnects. International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, 2008, 21, 103-115. | 1.9 | 4 |
| 69 | Microelectromechanical Resonator Characterization Using Noncontact Parametric Electrostatic Excitation and Probing. Journal of Microelectromechanical Systems, 2007, 16, 1054-1060. | 2.5 | 11 |
| 70 | An Ultra Wideband (UWB) Mixer with 0.18UM RF CMOS Technology. , 2006, , . | | 11 |
| 71 | Direct evidence of "spring softening" nonlinearity in micromachined mechanical resonator using optical beam deflection technique. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2006, 24, 732-736. | 2.1 | 12 |
| 72 | Embeddable wireless strain sensor based on resonant rf cavities. Review of Scientific Instruments, 2005, 76, 094703. | 1.3 | 38 |

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| 73 | Resolution enhancement in probing of high-speed integrated circuits using dynamic electrostatic force-gradient microscopy. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2004, 22, 948. | 2.1 | 2 |
| 74 | Evaluation of dissipation within an ILGA for computational electromagnetics. International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, 2004, 17, 1-15. | 1.9 | 1 |
| 75 | Equivalent circuit model for photonic bandgap microstrip lines with ground plane perforations. , 2004, , . | | 0 |
| 76 | Integration of an FDTD analysis of lossy multiconductor transmission lines within a general-purpose circuit simulator. , 2004, , . | | 0 |
| 77 | Simulation of transients on frequency dependent transmission lines using an improved multipoint Pad  approximation technique. , 2004, , . | | 0 |
| 78 | High frequency GMI measurement of soft magnetic co-based ribbons. , 2004, , . | | 0 |
| 79 | Quantitative voltage measurement of high-frequency internal integrated circuit signals by scanning probe microscopy. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2002, 20, 999-1003. | 2.1 | 7 |
| 80 | Capacitance sensor with sub-zeptofarad ($<10^{-21}$ F) sensitivity for scanning capacitance microscopy. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 2002, 20, 479. | 1.6 | 9 |
| 81 | Location of Current Carrying Faults in Integrated Circuits by Magnetic Force Microscopy. Materials Research Society Symposia Proceedings, 2002, 738, 7201. | 0.1 | 0 |
| 82 | Enhancements of Non-contact Measurements of Electrical Waveforms on the Proximity of a Signal Surface Using Groups of Pulses. , 2002, , . | | 0 |
| 83 |  Zeptofarad (10^{-21} F) resolution capacitance sensor for scanning capacitance microscopy. Review of Scientific Instruments, 2001, 72, 2618-2623. | 1.3 | 38 |
| 84 | Heterodyne electrostatic imaging of polarization due to a surface acoustic wave. Applied Physics Letters, 2001, 79, 3729-3731. | 3.3 | 4 |
| 85 | Efficient simulation of multiconductor transmission lines using order-reduction techniques. , 2000, , . | | 1 |
| 86 | Application of lattice gas automata to electromagnetic scattering and transmission line modelling. , 2000, , . | | 0 |
| 87 | High resolution sampling electrostatic force microscopy using pulse width modulation technique. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 2000, 18, 626. | 1.6 | 7 |
| 88 | Quantitative two-dimensional carrier profiling of a 400 nm complementary metal oxide semiconductor device by Schottky scanning capacitance microscopy. Journal of Applied Physics, 2000, 88, 6752-6757. | 2.5 | 9 |
| 89 | Non-contact probing of high speed microelectronics using electrostatic force sampling. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1998, 16, 830-833. | 2.1 | 9 |
| 90 | Noncontact internal probing of microwave integrated circuits. , 1998, , . | | 1 |

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| 91 | On the potential use of cellular automata machines for electromagnetic field solution. International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, 1995, 8, 301-312. | 1.9 | 5 |
| 92 | Parallel pseudorandom number generation in GaAs cellular automata for high speed circuit testing. Journal of Electronic Testing: Theory and Applications (JETTA), 1995, 6, 325-330. | 1.2 | 13 |
| 93 | High-frequency pattern extraction in digital integrated circuits using scanning electrostatic force microscopy. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 1995, 13, 1375. | 1.6 | 20 |
| 94 | Scanned electrostatic force microscope for noninvasive high frequency potential measurement. Applied Physics Letters, 1994, 64, 1442-1444. | 3.3 | 18 |
| 95 | Sampled waveform measurement in integrated circuits using heterodyne electrostatic force microscopy. Review of Scientific Instruments, 1994, 65, 3378-3381. | 1.3 | 17 |
| 96 | High frequency potential probe using electrostatic force microscopy. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1994, 12, 2591-2594. | 2.1 | 10 |