

Tushar Kanti Bera

List of Publications by Year in descending order

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38
papers

986
citations

471509

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h-index

477307

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38
all docs

38
docs citations

38
times ranked

774
citing authors

#	ARTICLE	IF	CITATIONS
1	Studies on the different coil geometries and core materials for magnetic induction spectroscopy (MIS) system development. <i>Materials Today: Proceedings</i> , 2021, 45, 5782-5787.	1.8	0
2	A LabVIEW-based electrical bioimpedance spectroscopic data interpreter (LEBISDI) for biological tissue impedance analysis and equivalent circuit modelling. <i>Journal of Electrical Bioimpedance</i> , 2019, 7, 35-54.	0.9	19
3	Design and development of microcontroller based instrumentation for studying complex bioelectrical impedance of fruits using electrical impedance spectroscopy. <i>Journal of Food Process Engineering</i> , 2018, 41, e12640.	2.9	10
4	Electrical Impedance Variations in Banana Ripening: An Analytical Study with Electrical Impedance Spectroscopy. <i>Journal of Food Process Engineering</i> , 2017, 40, e12387.	2.9	31
5	Electrical impedance spectroscopy for measuring the impedance response of carbon-fiber-reinforced polymer composite laminates. <i>Composite Structures</i> , 2017, 168, 510-521.	5.8	31
6	Combining the converse humidity/resistance response behaviors of rGO films for flexible logic devices. <i>Journal of Materials Chemistry C</i> , 2017, 5, 3848-3854.	5.5	13
7	Electrical impedance spectroscopic study of mandarin orange during ripening. <i>Journal of Food Measurement and Characterization</i> , 2017, 11, 1654-1664.	3.2	29
8	Leveraging a temperature-tunable, scale-like microstructure to produce multimodal, supersensitive sensors. <i>Nanoscale</i> , 2017, 9, 7888-7894.	5.6	18
9	Electrical impedance spectroscopy (EIS)-based evaluation of biological tissue phantoms to study multifrequency electrical impedance tomography (Mf-EIT) systems. <i>Journal of Visualization</i> , 2016, 19, 691-713.	1.8	48
10	Studying the Variations of Complex Electrical Bio-Impedance of Plant Tissues During Boiling. <i>Procedia Technology</i> , 2016, 23, 248-255.	1.1	9
11	Noninvasive Electromagnetic Methods for Brain Monitoring: A Technical Review. <i>Intelligent Systems Reference Library</i> , 2015, , 51-95.	1.2	11
12	Laser-based surface preparation of composite laminates leads to improved electrodes for electrical measurements. <i>Applied Surface Science</i> , 2015, 359, 388-397.	6.1	18
13	Bioelectrical Impedance Methods for Noninvasive Health Monitoring: A Review. <i>Journal of Medical Engineering</i> , 2014, 2014, 1-28.	1.1	252
14	Studying the surface electrode switching of a sixteen electrode EIT system using a LabVIEW-based electrode switching module (LV-ESM). , 2014, , .		1
15	A LabVIEW Based Data Acquisition System for Electrical Impedance Tomography (EIT). <i>Advances in Intelligent Systems and Computing</i> , 2014, , 377-389.	0.6	3
16	Studies on thin film based flexible gold electrode arrays for resistivity imaging in electrical impedance tomography. <i>Measurement: Journal of the International Measurement Confederation</i> , 2014, 47, 264-286.	5.0	17
17	Projection Error Propagation-based Regularization (PEPR) method for resistivity reconstruction in Electrical Impedance Tomography (EIT). <i>Measurement: Journal of the International Measurement Confederation</i> , 2014, 49, 329-350.	5.0	13
18	Electrical Impedance Spectroscopy for Electro-Mechanical Characterization of Conductive Fabrics. <i>Sensors</i> , 2014, 14, 9738-9754.	3.8	28

#	ARTICLE	IF	CITATIONS
19	Studies and Evaluation of EIT Image Reconstruction in EIDORS with Simulated Boundary Data. <i>Advances in Intelligent Systems and Computing</i> , 2014, , 1573-1581.	0.6	1
20	A Low Cost Electrical Impedance Tomography (EIT) Instrumentation for Impedance Imaging of Practical Phantoms: A Laboratory Study. <i>Advances in Intelligent Systems and Computing</i> , 2014, , 689-701.	0.6	2
21	A MatLAB Based Virtual Phantom for 2D Electrical Impedance Tomography (MatVP2DEIT): Studying the Medical Electrical Impedance Tomography Reconstruction in Computer. <i>Journal of Medical Imaging and Health Informatics</i> , 2014, 4, 147-167.	0.3	3
22	SPECTROSCOPIC ADMITTIVITY IMAGING OF BIOLOGICAL TISSUES: CHALLENGES AND FUTURE DIRECTIONS. <i>Journal of the Korean Society for Industrial and Applied Mathematics</i> , 2014, 18, 77-105.	0.0	1
23	A battery-based constant current source (Bb-CCS) for biomedical applications. , 2013, , .		11
24	Effective Admittivity of Biological Tissues as a Coefficient of Elliptic PDE. <i>Computational and Mathematical Methods in Medicine</i> , 2013, 2013, 1-10.	1.3	19
25	A MATLAB-Based Boundary Data Simulator for Studying the Resistivity Reconstruction Using Neighbouring Current Pattern. <i>Journal of Medical Engineering</i> , 2013, 2013, 1-15.	1.1	27
26	A multifrequency Electrical Impedance Tomography (EIT) system for biomedical imaging. , 2012, , .		18
27	Image Reconstruction in Electrical Impedance Tomography (EIT) with Projection Error Propagation-based Regularization (PEPR): A Practical Phantom Study. <i>Lecture Notes in Computer Science</i> , 2012, , 95-105.	1.3	16
28	Studying the resistivity imaging of chicken tissue phantoms with different current patterns in Electrical Impedance Tomography (EIT). <i>Measurement: Journal of the International Measurement Confederation</i> , 2012, 45, 663-682.	5.0	50
29	Improving the image reconstruction in Electrical Impedance Tomography (EIT) with block matrix-based Multiple Regularization (BMMR): A practical phantom study. , 2011, , .		16
30	Gold electrode sensors for electrical impedance tomography (EIT) studies. , 2011, , .		12
31	Switching of the surface electrode array in A 16-electrode EIT system using 8-Bit parallel digital data. , 2011, , .		7
32	A Chicken Tissue Phantom for Studying an Electrical Impedance Tomography (EIT) System Suitable for Clinical Imaging. <i>Sensing and Imaging</i> , 2011, 12, 95-116.	1.5	32
33	Resistivity imaging of a reconfigurable phantom with circular inhomogeneities in 2D-electrical impedance tomography. <i>Measurement: Journal of the International Measurement Confederation</i> , 2011, 44, 518-526.	5.0	49
34	A Model Based Iterative Image Reconstruction (MoBIIR) Algorithm for Conductivity Imaging in EIT Using Simulated Boundary Data. , 2011, , .		5
35	Improving Image Quality in Electrical Impedance Tomography (EIT) Using Projection Error Propagation-Based Regularization (PEPR) Technique: A Simulation Study. <i>Journal of Electrical Bioimpedance</i> , 2011, 2, 2-12.	0.9	52
36	Improving Conductivity Image Quality Using Block Matrix-based Multiple Regularization (BMMR) Technique in EIT: A Simulation Study. <i>Journal of Electrical Bioimpedance</i> , 2011, 2, 33-47.	0.9	29

#	ARTICLE	IF	CITATIONS
37	Electrical Impedance Spectroscopic Studies on Broiler Chicken Tissue Suitable for the Development of Practical Phantoms in Multifrequency EIT. Journal of Electrical Bioimpedance, 2011, 2, 48-63.	0.9	43
38	A multifrequency constant current source suitable for Electrical Impedance Tomography (EIT). , 2010, , .		42