Tushar Kanti Bera

List of Publications by Year
in descending order

38 papers	986 citations	471509 17 h-index	477307 29 g-index
38 all docs	38 docs citations	38 times ranked	774 citing authors

#	Article	IF	Citations
1	Bioelectrical Impedance Methods for Noninvasive Health Monitoring: A Review. Journal of Medical Engineering, 2014, 2014, 1-28.	1.1	252
2	Improving Image Quality in Electrical Impedance Tomography (EIT) Using Projection Error Propagation-Based Regularization (PEPR) Technique: A Simulation Study. Journal of Electrical Bioimpedance, 2011, 2, 2-12.	0.9	52
3	Studying the resistivity imaging of chicken tissue phantoms with different current patterns in Electrical Impedance Tomography (EIT). Measurement: Journal of the International Measurement Confederation, 2012, 45, 663-682.	5.0	50
4	Resistivity imaging of a reconfigurable phantom with circular inhomogeneities in 2D-electrical impedance tomography. Measurement: Journal of the International Measurement Confederation, 2011, 44, 518-526.	5.0	49
5	Electrical impedance spectroscopy (EIS)-based evaluation of biological tissue phantoms to study multifrequency electrical impedance tomography (Mf-EIT) systems. Journal of Visualization, 2016, 19, 691-713.	1.8	48
6	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
7	A multifrequency constant current source suitable for Electrical Impedance Tomography (EIT). , 2010, , .		42
8	A Chicken Tissue Phantom for Studying an Electrical Impedance Tomography (EIT) System Suitable for Clinical Imaging. Sensing and Imaging, 2011, 12, 95-116.	1.5	32
9	Electrical Impedance Variations in Banana Ripening: An Analytical Study with Electrical Impedance Spectroscopy. Journal of Food Process Engineering, 2017, 40, e12387.	2.9	31
10	Electrical impedance spectroscopy for measuring the impedance response of carbon-fiber-reinforced polymer composite laminates. Composite Structures, 2017, 168, 510-521.	5.8	31
11	Electrical impedance spectroscopic study of mandarin orange during ripening. Journal of Food Measurement and Characterization, 2017, 11, 1654-1664.	3.2	29
12	Improving Conductivity Image Quality Using Block Matrix-based Multiple Regularization (BMMR) Technique in EIT: A Simulation Study. Journal of Electrical Bioimpedance, 2011, 2, 33-47.	0.9	29
13	Electrical Impedance Spectroscopy for Electro-Mechanical Characterization of Conductive Fabrics. Sensors, 2014, 14, 9738-9754.	3.8	28
14	A MATLAB-Based Boundary Data Simulator for Studying the Resistivity Reconstruction Using Neighbouring Current Pattern. Journal of Medical Engineering, 2013, 2013, 1-15.	1.1	27
15	Effective Admittivity of Biological Tissues as a Coefficient of Elliptic PDE. Computational and Mathematical Methods in Medicine, 2013, 2013, 1-10.	1.3	19
16	A LabVIEW-based electrical bioimpedance spectroscopic data interpreter (LEBISDI) for biological tissue impedance analysis and equivalent circuit modelling. Journal of Electrical Bioimpedance, 2019, 7, 35-54.	0.9	19
17	A multifrequency Electrical Impedance Tomography (EIT) system for biomedical imaging. , 2012, , .		18
18	Laser-based surface preparation of composite laminates leads to improved electrodes for electrical measurements. Applied Surface Science, 2015, 359, 388-397.	6.1	18

#	Article	IF	Citations
19	Leveraging a temperature-tunable, scale-like microstructure to produce multimodal, supersensitive sensors. Nanoscale, 2017, 9, 7888-7894.	5.6	18
20	Studies on thin film based flexible gold electrode arrays for resistivity imaging in electrical impedance tomography. Measurement: Journal of the International Measurement Confederation, 2014, 47, 264-286.	5.0	17
21	Improving the image reconstruction in Electrical Impedance Tomography (EIT) with block matrix-based Multiple Regularization (BMMR): A practical phantom study. , 2011, , .		16
22	Image Reconstruction in Electrical Impedance Tomography (EIT) with Projection Error Propagation-based Regularization (PEPR): A Practical Phantom Study. Lecture Notes in Computer Science, 2012, , 95-105.	1.3	16
23	Projection Error Propagation-based Regularization (PEPR) method for resistivity reconstruction in Electrical Impedance Tomography (EIT). Measurement: Journal of the International Measurement Confederation, 2014, 49, 329-350.	5.0	13
24	Combining the converse humidity/resistance response behaviors of rGO films for flexible logic devices. Journal of Materials Chemistry C, 2017, 5, 3848-3854.	5.5	13
25	Gold electrode sensors for electrical impedance tomography (EIT) studies. , 2011, , .		12
26	A battery-based constant current source (Bb-CCS) for biomedical applications. , 2013, , .		11
27	Noninvasive Electromagnetic Methods for Brain Monitoring: A Technical Review. Intelligent Systems Reference Library, 2015, , 51-95.	1.2	11
28	Design and development of microcontroller based instrumentation for studying complex bioelectrical impedance of fruits using electrical impedance spectroscopy. Journal of Food Process Engineering, 2018, 41, e12640.	2.9	10
29	Studying the Variations of Complex Electrical Bio-Impedance of Plant Tissues During Boiling. Procedia Technology, 2016, 23, 248-255.	1.1	9
30	Switching of the surface electrode array in A 16-electrode EIT system using 8-Bit parallel digital data. , 2011, , .		7
31	A Model Based Iterative Image Reconstruction (MoBIIR) Algorithm for Conductivity Imaging in EIT Using Simulated Boundary Data. , 2011, , .		5
32	A LabVIEW Based Data Acquisition System for Electrical Impedance Tomography (EIT). Advances in Intelligent Systems and Computing, 2014, , 377-389.	0.6	3
33	A MatLAB Based Virtual Phantom for 2D Electrical Impedance Tomography (MatVP2DEIT): Studying the Medical Electrical Impedance Tomography Reconstruction in Computer. Journal of Medical Imaging and Health Informatics, 2014, 4, 147-167.	0.3	3
34	A Low Cost Electrical Impedance Tomography (EIT) Instrumentation for Impedance Imaging of Practical Phantoms: A Laboratory Study. Advances in Intelligent Systems and Computing, 2014, , 689-701.	0.6	2
35	Studying the surface electrode switching of a sixteen electrode EIT system using a LabVIEW-based electrode switching module (LV-ESM). , 2014, , .		1
36	Studies and Evaluation of EIT Image Reconstruction in EIDORS with Simulated Boundary Data. Advances in Intelligent Systems and Computing, 2014, , 1573-1581.	0.6	1

#	Article	IF	Citations
37	SPECTROSCOPIC ADMITTIVITY IMAGING OF BIOLOGICAL TISSUES: CHALLENGES AND FUTURE DIRECTIONS. Journal of the Korean Society for Industrial and Applied Mathematics, 2014, 18, 77-105.	0.0	1
38	Studies on the different coil geometries and core materials for magnetic induction spectroscopy (MIS) system development. Materials Today: Proceedings, 2021, 45, 5782-5787.	1.8	0