

Saurav Z K Sajib

List of Publications by Year in descending order

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35
papers

379
citations

759055

12
h-index

839398

18
g-index

35
all docs

35
docs citations

35
times ranked

261
citing authors

#	ARTICLE	IF	CITATIONS
1	Magnetic-resonance-based measurement of electromagnetic fields and conductivity in vivo using single current administration – A machine learning approach. PLoS ONE, 2021, 16, e0254690.	1.1	9
2	Low frequency conductivity reconstruction based on a single current injection via MREIT. Physics in Medicine and Biology, 2020, 65, 225016.	1.6	2
3	Conductivity Tensor Imaging of <i>In Vivo</i> Human Brain and Experimental Validation Using Giant Vesicle Suspension. IEEE Transactions on Medical Imaging, 2019, 38, 1569-1577.	5.4	25
4	Extracellular Total Electrolyte Concentration Imaging for Electrical Brain Stimulation (EBS). Scientific Reports, 2018, 8, 290.	1.6	12
5	Electrodeless conductivity tensor imaging (CTI) using MRI: basic theory and animal experiments. Biomedical Engineering Letters, 2018, 8, 273-282.	2.1	25
6	In vivo mapping of current density distribution in brain tissues during deep brain stimulation (DBS). AIP Advances, 2017, 7, 015004.	0.6	9
7	Software Toolbox for Low-Frequency Conductivity and Current Density Imaging Using MRI. IEEE Transactions on Biomedical Engineering, 2017, 64, 2505-2514.	2.5	20
8	Anisotropic Conductivity Tensor Imaging of <i>In Vivo</i> Canine Brain Using DT-MREIT. IEEE Transactions on Medical Imaging, 2017, 36, 124-131.	5.4	37
9	Realistic Electric Field Mapping of Anisotropic Muscle During Electrical Stimulation Using a Combination of Water Diffusion Tensor and Electrical Conductivity. International Neurology Journal, 2017, 21, S32-38.	0.5	2
10	Enhanced magnetic flux density mapping using coherent steady state equilibrium signal in MREIT. AIP Advances, 2016, 6, 035121.	0.6	0
11	Experimental evaluation of electrical conductivity imaging of anisotropic brain tissues using a combination of diffusion tensor imaging and magnetic resonance electrical impedance tomography. AIP Advances, 2016, 6, .	0.6	7
12	Current Density Imaging During Transcranial Direct Current Stimulation Using DT-MRI and MREIT: Algorithm Development and Numerical Simulations. IEEE Transactions on Biomedical Engineering, 2016, 63, 168-175.	2.5	33
13	Electric Field Mapping in ex vivo Anisotropic Muscle Tissue Using DT-MREIT. IFMBE Proceedings, 2016, , 71-74.	0.2	2
14	Evaluation of three-dimensional anisotropic head model for mapping realistic electromagnetic fields of brain tissues. AIP Advances, 2015, 5, 087152.	0.6	1
15	Sub-millimeter resolution electrical conductivity images of brain tissues using magnetic resonance-based electrical impedance tomography. Applied Physics Letters, 2015, 107, .	1.5	6
16	Magnetic flux density measurement through phase decomposition using non-interleaved scan in MREIT. Electronics Letters, 2015, 51, 890-892.	0.5	1
17	Reconstruction of apparent orthotropic conductivity tensor image using magnetic resonance electrical impedance tomography. Journal of Applied Physics, 2015, 117, 104701.	1.1	4
18	Electric Field Distribution in Ex Vivo Muscle Tissue with Anisotropic Conductivity Values at a Millimeter Scale Obtained by Using DT-MREIT. IFMBE Proceedings, 2015, , 833-836.	0.2	0

#	ARTICLE	IF	CITATIONS
19	Optimization of magnetic flux density measurement using multiple RF receiver coils and multi-echo in MREIT. Physics in Medicine and Biology, 2014, 59, 4827-4844.	1.6	4
20	Modelling of electromagnetic field distribution for optimising electrode configurations in liver MR-based electrical impedance tomography. Electronics Letters, 2014, 50, 1273-1275.	0.5	1
21	Numerical simulation of electromagnetic field distribution induced in brain by electrical stimulation. Electronics Letters, 2014, 50, 1045-1047.	0.5	2
22	Noise analysis in fast magnetic resonance electrical impedance tomography (MREIT) based on spoiled multi gradient echo (SPMGE) pulse sequence. Physics in Medicine and Biology, 2014, 59, 4723-4738.	1.6	7
23	Reconstruction of dual-frequency conductivity by optimization of phase map in MREIT and MREPT. BioMedical Engineering OnLine, 2014, 13, 24.	1.3	13
24	Anisotropic conductivity tensor imaging in MREIT using directional diffusion rate of water molecules. Physics in Medicine and Biology, 2014, 59, 2955-2974.	1.6	36
25	Focused Current Density Imaging Using Internal Electrode in Magnetic Resonance Electrical Impedance Tomography (MREIT). IEEE Transactions on Biomedical Engineering, 2014, 61, 1938-1946.	2.5	9
26	Simultaneous imaging of dual-frequency electrical conductivity using a combination of MREIT and MREPT. Magnetic Resonance in Medicine, 2014, 71, 200-208.	1.9	17
27	Simulations and phantom evaluations of magnetic resonance electrical impedance tomography (MREIT) for breast cancer detection. Journal of Magnetic Resonance, 2013, 230, 40-49.	1.2	15
28	Analysis of local projected current density from one component of magnetic flux density in MREIT. Inverse Problems, 2013, 29, 075001.	1.0	9
29	Numerical Simulations of MREIT Conductivity Imaging for Brain Tumor Detection. Computational and Mathematical Methods in Medicine, 2013, 2013, 1-10.	0.7	10
30	Electrical tissue property imaging using MRI at dc and Larmor frequency. Inverse Problems, 2012, 28, 084002.	1.0	26
31	Regional absolute conductivity reconstruction using projected current density in MREIT. Physics in Medicine and Biology, 2012, 57, 5841-5859.	1.6	23
32	Potential of MREIT conductivity imaging to detect breast cancer: Experimental and numerical simulation studies. , 2012, 2012, 440-3.		0
33	Improved conductivity image of human lower extremity using MREIT with chemical shift artifact correction. Biomedical Engineering Letters, 2012, 2, 62-68.	2.1	8
34	Novel Parameter Estimation Method for Chirp Signals Using Bowtie Chirplet and Discrete Fractional Fourier Transform. , 2008, , .		4
35	A parameter estimation method for linear amplitude modulated chirp signals based on Discrete Fractional Fourier Transform. , 2008, , .		0