

Oh-In Kwon

List of Publications by Year in descending order

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Version: 2024-02-01

56
papers

1,423
citations

361413

20
h-index

330143

37
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57
all docs

57
docs citations

57
times ranked

601
citing authors

#	ARTICLE	IF	CITATIONS
1	Magnetic resonance electrical impedance tomography (MREIT): simulation study of J-substitution algorithm. IEEE Transactions on Biomedical Engineering, 2002, 49, 160-167.	4.2	251
2	Reconstruction of conductivity and current density images using only one component of magnetic field measurements. IEEE Transactions on Biomedical Engineering, 2003, 50, 1121-1124.	4.2	177
3	Noise analysis in magnetic resonance electrical impedance tomography at 3 and 11 T field strengths. Physiological Measurement, 2005, 26, 875-884.	2.1	92
4	<i>In vivo</i> electrical conductivity imaging of a canine brain using a 3 T MREIT system. Physiological Measurement, 2008, 29, 1145-1155.	2.1	74
5	Measurement of induced magnetic flux density using injection current nonlinear encoding (ICNE) in MREIT. Physiological Measurement, 2007, 28, 117-127.	2.1	61
6	Analysis of recoverable current from one component of magnetic flux density in MREIT and MRCDI. Physics in Medicine and Biology, 2007, 52, 3001-3013.	3.0	60
7	Equipotential line method for magnetic resonance electrical impedance tomography. Inverse Problems, 2002, 18, 1089-1100.	2.0	58
8	Harmonic Decomposition in PDE-Based Denoising Technique for Magnetic Resonance Electrical Impedance Tomography. IEEE Transactions on Biomedical Engineering, 2005, 52, 1912-1920.	4.2	42
9	Optimization of multiply acquired magnetic flux density B_z using ICNE-Multiecho train in MREIT. Physics in Medicine and Biology, 2010, 55, 2743-2759.	3.0	37
10	Anisotropic Conductivity Tensor Imaging of <i>In Vivo</i> Canine Brain Using DT-MREIT. IEEE Transactions on Medical Imaging, 2017, 36, 124-131.	8.9	37
11	Anisotropic conductivity tensor imaging in MREIT using directional diffusion rate of water molecules. Physics in Medicine and Biology, 2014, 59, 2955-2974.	3.0	36
12	Conductivity image reconstruction from defective data in MREIT: numerical Simulation and animal experiment. IEEE Transactions on Medical Imaging, 2006, 25, 168-176.	8.9	31
13	Estimation of anomaly location and size using electrical impedance tomography. IEEE Transactions on Biomedical Engineering, 2003, 50, 89-96.	4.2	30
14	Shear Modulus Decomposition Algorithm in Magnetic Resonance Elastography. IEEE Transactions on Medical Imaging, 2009, 28, 1526-1533.	8.9	29
15	Evaluation of Hepatoprotective Effect of Curcumin on Liver Cirrhosis Using a Combination of Biochemical Analysis and Magnetic Resonance-Based Electrical Conductivity Imaging. Mediators of Inflammation, 2018, 2018, 1-9.	3.0	29
16	Electrical tissue property imaging using MRI at dc and Larmor frequency. Inverse Problems, 2012, 28, 084002.	2.0	26
17	Electrodeless conductivity tensor imaging (CTI) using MRI: basic theory and animal experiments. Biomedical Engineering Letters, 2018, 8, 273-282.	4.1	25
18	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.	8.9	25

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19	Regional absolute conductivity reconstruction using projected current density in MREIT. <i>Physics in Medicine and Biology</i> , 2012, 57, 5841-5859.	3.0	23
20	Feasibility of magnetic resonance electrical impedance tomography (MREIT) conductivity imaging to evaluate brain abscess lesion: <i>In vivo</i> canine model. <i>Journal of Magnetic Resonance Imaging</i> , 2013, 38, 189-197.	3.4	23
21	Conductivity imaging with low level current injection using transversal J_z -substitution algorithm in MREIT. <i>Physics in Medicine and Biology</i> , 2007, 52, 6717-6730.	3.0	20
22	Simultaneous imaging of dual-frequency electrical conductivity using a combination of μ MREIT and μ MREPT. <i>Magnetic Resonance in Medicine</i> , 2014, 71, 200-208.	3.0	17
23	A tissue-relaxation-dependent neighboring method for robust mapping of the myelin water fraction. <i>NeuroImage</i> , 2013, 74, 12-21.	4.2	16
24	Frequency-Dependent Conductivity Contrast for Tissue Characterization Using a Dual-Frequency Range Conductivity Mapping Magnetic Resonance Method. <i>IEEE Transactions on Medical Imaging</i> , 2015, 34, 507-513.	8.9	16
25	Fast segmentation of ultrasound images using robust Rayleigh distribution decomposition. <i>Pattern Recognition</i> , 2012, 45, 3490-3500.	8.1	15
26	Noise analysis and MR pulse sequence optimization in MREIT using an injected current nonlinear encoding (ICNE) method. <i>Physiological Measurement</i> , 2007, 28, 1391-1404.	2.1	13
27	Fast conductivity imaging in magnetic resonance electrical impedance tomography (MREIT) for RF ablation monitoring. <i>International Journal of Hyperthermia</i> , 2014, 30, 447-455.	2.5	13
28	Reconstruction of dual-frequency conductivity by optimization of phase map in MREIT and MREPT. <i>BioMedical Engineering OnLine</i> , 2014, 13, 24.	2.7	13
29	Extracellular Total Electrolyte Concentration Imaging for Electrical Brain Stimulation (EBS). <i>Scientific Reports</i> , 2018, 8, 290.	3.3	12
30	Low-frequency dominant electrical conductivity imaging of in vivo human brain using high-frequency conductivity at Larmor-frequency and spherical mean diffusivity without external injection current. <i>NeuroImage</i> , 2021, 225, 117466.	4.2	12
31	Axial Anisotropic Conductivity Imaging Based on Projected Current Density in MREIT. <i>IEEE Transactions on Medical Imaging</i> , 2010, 29, 781-789.	8.9	11
32	<i>In Vivo</i> Measurement of Brain Tissue Response After Irradiation: Comparison of T2 Relaxation, Apparent Diffusion Coefficient, and Electrical Conductivity. <i>IEEE Transactions on Medical Imaging</i> , 2019, 38, 2779-2784.	8.9	11
33	Validation of conductivity tensor imaging using giant vesicle suspensions with different ion mobilities. <i>BioMedical Engineering OnLine</i> , 2020, 19, 35.	2.7	11
34	In vivo mapping of current density distribution in brain tissues during deep brain stimulation (DBS). <i>AIP Advances</i> , 2017, 7, 015004.	1.3	9
35	Magnetic-resonance-based measurement of electromagnetic fields and conductivity in vivo using single current administration: A machine learning approach. <i>PLoS ONE</i> , 2021, 16, e0254690.	2.5	9
36	Experimental evaluation of electrical conductivity imaging of anisotropic brain tissues using a combination of diffusion tensor imaging and magnetic resonance electrical impedance tomography. <i>AIP Advances</i> , 2016, 6, .	1.3	7

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37	Extracellular electrical conductivity property imaging by decomposition of high-frequency conductivity at Larmor-frequency using multi-b-value diffusion-weighted imaging. PLoS ONE, 2020, 15, e0230903.	2.5	7
38	Anisotropic elastic moduli reconstruction in transversely isotropic model using MRE. Inverse Problems, 2012, 28, 115003.	2.0	6
39	A regularization technique for closed contour segmentation in ultrasound images. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2011, 58, 1577-1589.	3.0	5
40	A hybrid one-step inversion method for shear modulus imaging using time-harmonic vibrations. Inverse Problems, 2010, 26, 085014.	2.0	4
41	Magnetic flux density reconstruction using interleaved partial Fourier acquisitions in MREIT. Physics in Medicine and Biology, 2011, 56, 2059-2073.	3.0	4
42	Improved conductivity reconstruction from multi-echo MREIT utilizing weighted voxel-specific signal-to-noise ratios. Physics in Medicine and Biology, 2012, 57, 3643-3659.	3.0	4
43	Angular resolution enhancement technique for diffusion-weighted imaging (DWI) using predicted diffusion gradient directions. NeuroImage, 2018, 183, 836-846.	4.2	4
44	Anisotropic conductivity tensor imaging for transcranial direct current stimulation (tDCS) using magnetic resonance diffusion tensor imaging (MR-DTI). PLoS ONE, 2018, 13, e0197063.	2.5	4
45	Decomposition of high-frequency electrical conductivity into extracellular and intracellular compartments based on two-compartment model using low-to-high multi-b diffusion MRI. BioMedical Engineering OnLine, 2021, 20, 29.	2.7	4
46	High-frequency conductivity at Larmor-frequency in human brain using moving local window multilayer perceptron neural network. PLoS ONE, 2021, 16, e0251417.	2.5	2
47	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.	1.2	2
48	Application of High-Frequency Conductivity Map Using MRI to Evaluate It in the Brain of Alzheimer's Disease Patients. Frontiers in Neurology, 2022, 13, .	2.4	2
49	Conductivity image enhancement in MREIT using adaptively weighted spatial averaging filter. BioMedical Engineering OnLine, 2014, 13, 87.	2.7	1
50	Evaluation of three-dimensional anisotropic head model for mapping realistic electromagnetic fields of brain tissues. AIP Advances, 2015, 5, 087152.	1.3	1
51	Magnetic flux density measurement through phase decomposition using non-interleaved scan in MREIT. Electronics Letters, 2015, 51, 890-892.	1.0	1
52	Microelectrode array analysis of hippocampal network dynamics following theta-burst stimulation via current source density reconstruction by Gaussian interpolation. Journal of Neuroscience Methods, 2016, 264, 1-10.	2.5	1
53	Three-dimensional forward problem in magnetic resonance electrical impedance tomography (MREIT). , 0, , .		0
54	Newton Method to Recover the Phase Accumulated during MRI Data Acquisition. Journal of Applied Mathematics, 2012, 2012, 1-15.	0.9	0

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55	Enhanced magnetic flux density mapping using coherent steady state equilibrium signal in MREIT. AIP Advances, 2016, 6, 035121.	1.3	0
56	ELECTRICAL IMPEDANCE TOMOGRAPHY FOR IMAGING AND LESION ESTIMATION. , 2005, , 193-239.		0