Oh-In Kwon

List of Publications by Year
in descending order

56 papers	1,423 citations	361413 20 h-index	330143 37 g-index
57 all docs	57 docs citations	57 times ranked	601 citing authors

#	Article	IF	Citations
1	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
2	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. NeuroImage, 2021, 225, 117466.	4.2	12
3	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
4	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
5	Magnetic-resonance-based measurement of electromagnetic fields and conductivity in vivo using single current administration—A machine learning approach. PLoS ONE, 2021, 16, e0254690.	2.5	9
6	Validation of conductivity tensor imaging using giant vesicle suspensions with different ion mobilities. BioMedical Engineering OnLine, 2020, 19, 35.	2.7	11
7	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
8	*In Vivo* Measurement of Brain Tissue Response After Irradiation: Comparison of T2 Relaxation, Apparent Diffusion Coefficient, and Electrical Conductivity. IEEE Transactions on Medical Imaging, 2019, 38, 2779-2784.	8.9	11
9	Conductivity Tensor Imaging of *In Vivo* Human Brain and Experimental Validation Using Giant Vesicle Suspension. IEEE Transactions on Medical Imaging, 2019, 38, 1569-1577.	8.9	25
10	Extracellular Total Electrolyte Concentration Imaging for Electrical Brain Stimulation (EBS). Scientific Reports, 2018, 8, 290.	3.3	12
11	Electrodeless conductivity tensor imaging (CTI) using MRI: basic theory and animal experiments. Biomedical Engineering Letters, 2018, 8, 273-282.	4.1	25
12	Angular resolution enhancement technique for diffusion-weighted imaging (DWI) using predicted diffusion gradient directions. NeuroImage, 2018, 183, 836-846.	4.2	4
13	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
14	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
15	In vivo mapping of current density distribution in brain tissues during deep brain stimulation (DBS). AIP Advances, 2017, 7, 015004.	1.3	9
16	Anisotropic Conductivity Tensor Imaging of <italic>In Vivo</italic> Canine Brain Using DT-MREIT. IEEE Transactions on Medical Imaging, 2017, 36, 124-131.	8.9	37
17	Realistic Electric Field Mapping of Anisotropic Muscle During Electrical Stimulation Using a Combination of Water Diffusion Tensor and Electrical Conductivity. International Neurourology Journal, 2017, 21, S32-38.	1.2	2
18	Enhanced magnetic flux density mapping using coherent steady state equilibrium signal in MREIT. AIP Advances, 2016, 6, 035121.	1.3	0

#	Article	IF	Citations
19	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, .	1.3	7
20	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
21	Evaluation of three-dimensional anisotropic head model for mapping realistic electromagnetic fields of brain tissues. AIP Advances, 2015, 5, 087152.	1.3	1
22	Frequency-Dependent Conductivity Contrast for Tissue Characterization Using a Dual-Frequency Range Conductivity Mapping Magnetic Resonance Method. IEEE Transactions on Medical Imaging, 2015, 34, 507-513.	8.9	16
23	Magnetic flux density measurement through phase decomposition using nonâ€interleaved scan in MREIT. Electronics Letters, 2015, 51, 890-892.	1.0	1
24	Fast conductivity imaging in magnetic resonance electrical impedance tomography (MREIT) for RF ablation monitoring. International Journal of Hyperthermia, 2014, 30, 447-455.	2.5	13
25	Reconstruction of dual-frequency conductivity by optimization of phase map in MREIT and MREPT. BioMedical Engineering OnLine, 2014, 13, 24.	2.7	13
26	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
27	Conductivity image enhancement in MREIT using adaptively weighted spatial averaging filter. BioMedical Engineering OnLine, 2014, 13, 87.	2.7	1
28	Simultaneous imaging of dualâ€frequency electrical conductivity using a combination of <scp>MREIT</scp> and <scp>MREPT</scp>. Magnetic Resonance in Medicine, 2014, 71, 200-208.	3.0	17
29	Feasibility of magnetic resonance electrical impedance tomography (MREIT) conductivity imaging to evaluate brain abscess lesion:<i>In vivo</i>canine model. Journal of Magnetic Resonance Imaging, 2013, 38, 189-197.	3.4	23
30	A tissue-relaxation-dependent neighboring method for robust mapping of the myelin water fraction. NeuroImage, 2013, 74, 12-21.	4.2	16
31	Newton Method to Recover the Phase Accumulated during MRI Data Acquisition. Journal of Applied Mathematics, 2012, 2012, 1-15.	0.9	0
32	Anisotropic elastic moduli reconstruction in transversely isotropic model using MRE. Inverse Problems, 2012, 28, 115003.	2.0	6
33	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
34	Electrical tissue property imaging using MRI at dc and Larmor frequency. Inverse Problems, 2012, 28, 084002.	2.0	26
35	Regional absolute conductivity reconstruction using projected current density in MREIT. Physics in Medicine and Biology, 2012, 57, 5841-5859.	3.0	23
36	Fast segmentation of ultrasound images using robust Rayleigh distribution decomposition. Pattern Recognition, 2012, 45, 3490-3500.	8.1	15

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37	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
38	Magnetic flux density reconstruction using interleaved partial Fourier acquisitions in MREIT. Physics in Medicine and Biology, 2011, 56, 2059-2073.	3.0	4
39	Axial Anisotropic Conductivity Imaging Based on Projected Current Density in MREIT. IEEE Transactions on Medical Imaging, 2010, 29, 781-789.	8.9	11
40	A hybrid one-step inversion method for shear modulus imaging using time-harmonic vibrations. Inverse Problems, 2010, 26, 085014.	2.0	4
41	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
42	Shear Modulus Decomposition Algorithm in Magnetic Resonance Elastography. IEEE Transactions on Medical Imaging, 2009, 28, 1526-1533.	8.9	29
43	*In vivo* electrical conductivity imaging of a canine brain using a 3 T MREIT system. Physiological Measurement, 2008, 29, 1145-1155.	2.1	74
44	Conductivity imaging with low level current injection using transversal *J*-substitution algorithm in MREIT. Physics in Medicine and Biology, 2007, 52, 6717-6730.	3.0	20
45	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
46	Measurement of induced magnetic flux density using injection current nonlinear encoding (ICNE) in MREIT. Physiological Measurement, 2007, 28, 117-127.	2.1	61
47	Noise analysis and MR pulse sequence optimization in MREIT using an injected current nonlinear encoding (ICNE) method. Physiological Measurement, 2007, 28, 1391-1404.	2.1	13
48	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
49	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
50	Noise analysis in magnetic resonance electrical impedance tomography at 3 and 11 T field strengths. Physiological Measurement, 2005, 26, 875-884.	2.1	92
51	ELECTRICAL IMPEDANCE TOMOGRAPHY FOR IMAGING AND LESION ESTIMATION. , 2005, , 193-239.		0
52	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
53	Estimation of anomaly location and size using electrical impedance tomography. IEEE Transactions on Biomedical Engineering, 2003, 50, 89-96.	4.2	30
54	Equipotential line method for magnetic resonance electrical impedance tomography. Inverse Problems, 2002, 18, 1089-1100.	2.0	58

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55	Magnetic resonance electrical impedance tomography (MREIT): simulation study of J-substitution algorithm. IEEE Transactions on Biomedical Engineering, 2002, 49, 160-167.	4.2	251
56	Three-dimensional forward problem in magnetic resonance electrical impedance tomography (MREIT). , 0, , .		0