

Bin He

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247
papers

10,897
citations

61
h-index

96
g-index

302
ext. papers

13,062
ext. citations

5.1
avg, IF

6.68
L-index

#	Paper	IF	Citations
247	Quadcopter control in three-dimensional space using a noninvasive motor imagery-based brain-computer interface. <i>Journal of Neural Engineering</i> , 2013 , 10, 046003	5	330
246	Estimation of the cortical functional connectivity with the multimodal integration of high-resolution EEG and fMRI data by directed transfer function. <i>NeuroImage</i> , 2005 , 24, 118-31	7.9	311
245	Comparison of different cortical connectivity estimators for high-resolution EEG recordings. <i>Human Brain Mapping</i> , 2007 , 28, 143-57	5.9	277
244	Brain-computer interfaces using sensorimotor rhythms: current state and future perspectives. <i>IEEE Transactions on Biomedical Engineering</i> , 2014 , 61, 1425-35	5	264
243	Electric dipole tracing in the brain by means of the boundary element method and its accuracy. <i>IEEE Transactions on Biomedical Engineering</i> , 1987 , 34, 406-14	5	238
242	Graph analysis of epileptogenic networks in human partial epilepsy. <i>Epilepsia</i> , 2011 , 52, 84-93	6.4	213
241	Noninvasive Electroencephalogram Based Control of a Robotic Arm for Reach and Grasp Tasks. <i>Scientific Reports</i> , 2016 , 6, 38565	4.9	213
240	Electrophysiological imaging of brain activity and connectivity-challenges and opportunities. <i>IEEE Transactions on Biomedical Engineering</i> , 2011 , 58, 1918-31	5	194
239	Binocular rivalry requires visual attention. <i>Neuron</i> , 2011 , 71, 362-9	13.9	184
238	EEG Source Imaging Enhances the Decoding of Complex Right-Hand Motor Imagery Tasks. <i>IEEE Transactions on Biomedical Engineering</i> , 2016 , 63, 4-14	5	176
237	Negative covariation between task-related responses in alpha/beta-band activity and BOLD in human sensorimotor cortex: an EEG and fMRI study of motor imagery and movements. <i>NeuroImage</i> , 2010 , 49, 2596-606	7.9	176
236	Continuous three-dimensional control of a virtual helicopter using a motor imagery based brain-computer interface. <i>PLoS ONE</i> , 2011 , 6, e26322	3.7	169
235	The standardized EEG electrode array of the IFCN. <i>Clinical Neurophysiology</i> , 2017 , 128, 2070-2077	4.3	168
234	A wavelet-based time-frequency analysis approach for classification of motor imagery for brain-computer interface applications. <i>Journal of Neural Engineering</i> , 2005 , 2, 65-72	5	164
233	Estimation of in vivo human brain-to-skull conductivity ratio from simultaneous extra- and intra-cranial electrical potential recordings. <i>Clinical Neurophysiology</i> , 2005 , 116, 456-65	4.3	159
232	Motor imagery classification by means of source analysis for brain-computer interface applications. <i>Journal of Neural Engineering</i> , 2004 , 1, 135-41	5	157
231	Magnetoacoustic tomography with magnetic induction (MAT-MI). <i>Physics in Medicine and Biology</i> , 2005 , 50, 5175-87	3.8	153

230	eConnectome: A MATLAB toolbox for mapping and imaging of brain functional connectivity. <i>Journal of Neuroscience Methods</i> , 2011 , 195, 261-9	3	152
229	EEG control of a virtual helicopter in 3-dimensional space using intelligent control strategies. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2010 , 18, 581-9	4.8	150
228	Ictal source analysis: localization and imaging of causal interactions in humans. <i>NeuroImage</i> , 2007 , 34, 575-86	7.9	150
227	Classifying EEG-based motor imagery tasks by means of time-frequency synthesized spatial patterns. <i>Clinical Neurophysiology</i> , 2004 , 115, 2744-53	4.3	147
226	Defecting or not defecting: how to "read" human behavior during cooperative games by EEG measurements. <i>PLoS ONE</i> , 2010 , 5, e14187	3.7	125
225	Noninvasive neuroimaging enhances continuous neural tracking for robotic device control. <i>Science Robotics</i> , 2019 , 4,	18.6	121
224	Noninvasive Brain-Computer Interfaces Based on Sensorimotor Rhythms. <i>Proceedings of the IEEE</i> , 2015 , 103, 907-925	14.3	119
223	Neocortical seizure foci localization by means of a directed transfer function method. <i>Epilepsia</i> , 2010 , 51, 564-72	6.4	110
222	Neuromodulation for brain disorders: challenges and opportunities. <i>IEEE Transactions on Biomedical Engineering</i> , 2013 , 60, 610-24	5	107
221	Estimation of time-varying connectivity patterns through the use of an adaptive directed transfer function. <i>IEEE Transactions on Biomedical Engineering</i> , 2008 , 55, 2557-64	5	103
220	Brain-Computer Interface 2005 , 85-121		102
219	Estimation of in vivo brain-to-skull conductivity ratio in humans. <i>Applied Physics Letters</i> , 2006 , 89, 223903-223903		101
218	Estimating cortical potentials from scalp EEGs in a realistically shaped inhomogeneous head model by means of the boundary element method. <i>IEEE Transactions on Biomedical Engineering</i> , 1999 , 46, 1264-8	5	98
217	Classification of motor imagery tasks for brain-computer interface applications by means of two equivalent dipoles analysis. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2005 , 13, 166-71	4.8	97
216	Noninvasive imaging of cardiac transmembrane potentials within three-dimensional myocardium by means of a realistic geometry anisotropic heart model. <i>IEEE Transactions on Biomedical Engineering</i> , 2003 , 50, 1190-202	5	95
215	Investigating Cooperative Behavior in Ecological Settings: An EEG Hyperscanning Study. <i>PLoS ONE</i> , 2016 , 11, e0154236	3.7	93
214	Cortical imaging of event-related (de)synchronization during online control of brain-computer interface using minimum-norm estimates in frequency domain. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2008 , 16, 425-31	4.8	90
213	Relationship between speed and EEG activity during imagined and executed hand movements. <i>Journal of Neural Engineering</i> , 2010 , 7, 26001	5	89

212	Multimodal functional neuroimaging: integrating functional MRI and EEG/MEG. <i>IEEE Reviews in Biomedical Engineering</i> , 2008 , 1, 23-40	6.4	88
211	Electrophysiological Source Imaging: A Noninvasive Window to Brain Dynamics. <i>Annual Review of Biomedical Engineering</i> , 2018 , 20, 171-196	12	87
210	Electrophysiological Brain Connectivity: Theory and Implementation. <i>IEEE Transactions on Biomedical Engineering</i> , 2019 ,	5	86
209	Sparse source imaging in electroencephalography with accurate field modeling. <i>Human Brain Mapping</i> , 2008 , 29, 1053-67	5.9	84
208	fMRI-EEG integrated cortical source imaging by use of time-variant spatial constraints. <i>NeuroImage</i> , 2008 , 39, 1198-214	7.9	83
207	Estimation of the effective and functional human cortical connectivity with structural equation modeling and directed transfer function applied to high-resolution EEG. <i>Magnetic Resonance Imaging</i> , 2004 , 22, 1457-70	3.3	83
206	Boundary element method-based cortical potential imaging of somatosensory evoked potentials using subjectsSmagnetic resonance images. <i>NeuroImage</i> , 2002 , 16, 564-76	7.9	82
205	Imaging electrical impedance from acoustic measurements by means of magnetoacoustic tomography with magnetic induction (MAT-MI). <i>IEEE Transactions on Biomedical Engineering</i> , 2007 , 54, 323-30	5	80
204	Localization of the site of origin of cardiac activation by means of a heart-model-based electrocardiographic imaging approach. <i>IEEE Transactions on Biomedical Engineering</i> , 2001 , 48, 660-9	5	79
203	Brain-computer interface control in a virtual reality environment and applications for the internet of things. <i>IEEE Access</i> , 2018 , 6, 10840-10849	3.5	76
202	High-resolution EEG: a new realistic geometry spline Laplacian estimation technique. <i>Clinical Neurophysiology</i> , 2001 , 112, 845-52	4.3	76
201	Seizure source imaging by means of FINE spatio-temporal dipole localization and directed transfer function in partial epilepsy patients. <i>Clinical Neurophysiology</i> , 2012 , 123, 1275-83	4.3	74
200	A new magnetic resonance electrical impedance tomography (MREIT) algorithm: the RSM-MREIT algorithm with applications to estimation of human head conductivity. <i>Physics in Medicine and Biology</i> , 2006 , 51, 3067-83	3.8	71
199	Evaluation of cortical current density imaging methods using intracranial electrocorticograms and functional MRI. <i>NeuroImage</i> , 2007 , 35, 598-608	7.9	71
198	High-definition transcranial direct current stimulation induces both acute and persistent changes in broadband cortical synchronization: a simultaneous tDCS-EEG study. <i>IEEE Transactions on Biomedical Engineering</i> , 2014 , 61, 1967-78	5	70
197	Brain-Computer Interfaces 2013 , 87-151		70
196	Imaging electric properties of biological tissues by RF field mapping in MRI. <i>IEEE Transactions on Medical Imaging</i> , 2010 , 29, 474-81	11.7	70
195	Effect of EEG electrode number on epileptic source localization in pediatric patients. <i>Clinical Neurophysiology</i> , 2015 , 126, 472-80	4.3	69

194	Gradient-based electrical properties tomography (gEPT): A robust method for mapping electrical properties of biological tissues in vivo using magnetic resonance imaging. <i>Magnetic Resonance in Medicine</i> , 2015 , 74, 634-46	4.4	67
193	Dynamic imaging of ictal oscillations using non-invasive high-resolution EEG. <i>NeuroImage</i> , 2011 , 56, 1908-17	4.7	65
192	A self-coherence enhancement algorithm and its application to enhancing three-dimensional source estimation from EEGs. <i>Annals of Biomedical Engineering</i> , 2001 , 29, 1019-27	4.7	65
191	Identification of epileptogenic foci from causal analysis of ECoG interictal spike activity. <i>Clinical Neurophysiology</i> , 2009 , 120, 1449-56	4.3	64
190	Classification of motor imagery by means of cortical current density estimation and Von Neumann entropy. <i>Journal of Neural Engineering</i> , 2007 , 4, 17-25	5	64
189	Noninvasive reconstruction of three-dimensional ventricular activation sequence from the inverse solution of distributed equivalent current density. <i>IEEE Transactions on Medical Imaging</i> , 2006 , 25, 1307-18	4.7	63
188	An alternative subspace approach to EEG dipole source localization. <i>Physics in Medicine and Biology</i> , 2004 , 49, 327-43	3.8	63
187	Linear and nonlinear relationships between visual stimuli, EEG and BOLD fMRI signals. <i>NeuroImage</i> , 2010 , 50, 1054-66	7.9	61
186	Noninvasive three-dimensional electrocardiographic imaging of ventricular activation sequence. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2005 , 289, H2724-32	5.2	61
185	Magnetic-resonance-based electrical properties tomography: a review. <i>IEEE Reviews in Biomedical Engineering</i> , 2014 , 7, 87-96	6.4	59
184	A computer simulation study of cortical imaging from scalp potentials. <i>IEEE Transactions on Biomedical Engineering</i> , 1998 , 45, 724-35	5	59
183	A cortical potential imaging study from simultaneous extra- and intracranial electrical recordings by means of the finite element method. <i>NeuroImage</i> , 2006 , 31, 1513-24	7.9	59
182	Estimation of the cortical connectivity by high-resolution EEG and structural equation modeling: simulations and application to finger tapping data. <i>IEEE Transactions on Biomedical Engineering</i> , 2005 , 52, 757-68	5	59
181	Complex B1 mapping and electrical properties imaging of the human brain using a 16-channel transceiver coil at 7T. <i>Magnetic Resonance in Medicine</i> , 2013 , 69, 1285-96	4.4	58
180	Three-dimensional brain current source reconstruction from intra-cranial ECoG recordings. <i>NeuroImage</i> , 2008 , 42, 683-95	7.9	56
179	Imaging and visualization of 3-D cardiac electric activity. <i>IEEE Transactions on Information Technology in Biomedicine</i> , 2001 , 5, 181-6		56
178	Validation and Opportunities of Electrocardiographic Imaging: From Technical Achievements to Clinical Applications. <i>Frontiers in Physiology</i> , 2018 , 9, 1305	4.6	56
177	Interictal spike analysis of high-density EEG in patients with partial epilepsy. <i>Clinical Neurophysiology</i> , 2011 , 122, 1098-105	4.3	52

176	Grand challenges in mapping the human brain: NSF workshop report. <i>IEEE Transactions on Biomedical Engineering</i> , 2013 , 60, 2983-92	5	51
175	An enhanced time-frequency-spatial approach for motor imagery classification. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2006 , 14, 250-4	4.8	49
174	From complex B(1) mapping to local SAR estimation for human brain MR imaging using multi-channel transceiver coil at 7T. <i>IEEE Transactions on Medical Imaging</i> , 2013 , 32, 1058-67	11.7	48
173	Noninvasive three-dimensional activation time imaging of ventricular excitation by means of a heart-excitation model. <i>Physics in Medicine and Biology</i> , 2002 , 47, 4063-78	3.8	48
172	Magnetoacoustic imaging of human liver tumor with magnetic induction. <i>Applied Physics Letters</i> , 2011 , 98, 23703	3.4	46
171	Characterization of functional brain activity and connectivity using EEG and fMRI in patients with sickle cell disease. <i>NeuroImage: Clinical</i> , 2017 , 14, 1-17	5.3	45
170	High-resolution spatio-temporal functional neuroimaging of brain activity. <i>Critical Reviews in Biomedical Engineering</i> , 2002 , 30, 283-306	1.1	45
169	Imaging brain source extent from EEG/MEG by means of an iteratively reweighted edge sparsity minimization (IRES) strategy. <i>NeuroImage</i> , 2016 , 142, 27-42	7.9	45
168	Combined rTMS and virtual reality brain-computer interface training for motor recovery after stroke. <i>Journal of Neural Engineering</i> , 2018 , 15, 016009	5	44
167	Source connectivity analysis from MEG and its application to epilepsy source localization. <i>Brain Topography</i> , 2012 , 25, 157-66	4.3	43
166	An equivalent current source model and laplacian weighted minimum norm current estimates of brain electrical activity. <i>IEEE Transactions on Biomedical Engineering</i> , 2002 , 49, 277-88	5	43
165	Seizure prediction in patients with focal hippocampal epilepsy. <i>Clinical Neurophysiology</i> , 2017 , 128, 1299-1307	13.07	41
164	Determining electrical properties based on B(1) fields measured in an MR scanner using a multi-channel transmit/receive coil: a general approach. <i>Physics in Medicine and Biology</i> , 2013 , 58, 4395-408	3.8	41
163	Spatial resolution of EEG cortical source imaging revealed by localization of retinotopic organization in human primary visual cortex. <i>Journal of Neuroscience Methods</i> , 2007 , 161, 142-54	3	41
162	An efficient rhythmic component expression and weighting synthesis strategy for classifying motor imagery EEG in a brain-computer interface. <i>Journal of Neural Engineering</i> , 2004 , 1, 1-7	5	41
161	Estimation of electrical conductivity distribution within the human head from magnetic flux density measurement. <i>Physics in Medicine and Biology</i> , 2005 , 50, 2675-87	3.8	41
160	Noninvasive three-dimensional cardiac activation imaging from body surface potential maps: a computational and experimental study on a rabbit model. <i>IEEE Transactions on Medical Imaging</i> , 2008 , 27, 1622-30	11.7	39
159	Spectral and spatial changes of brain rhythmic activity in response to the sustained thermal pain stimulation. <i>Human Brain Mapping</i> , 2016 , 37, 2976-91	5.9	39

158	Localization of Origins of Premature Ventricular Contraction by Means of Convolutional Neural Network From 12-Lead ECG. <i>IEEE Transactions on Biomedical Engineering</i> , 2018 , 65, 1662-1671	5	38
157	Noninvasive imaging of three-dimensional cardiac activation sequence during pacing and ventricular tachycardia. <i>Heart Rhythm</i> , 2011 , 8, 1266-72	6.7	38
156	Differential electrophysiological coupling for positive and negative BOLD responses during unilateral hand movements. <i>Journal of Neuroscience</i> , 2011 , 31, 9585-93	6.6	38
155	A bioelectric inverse imaging technique based on surface Laplacians. <i>IEEE Transactions on Biomedical Engineering</i> , 1997 , 44, 529-38	5	38
154	Noninvasive reconstruction of the three-dimensional ventricular activation sequence during pacing and ventricular tachycardia in the canine heart. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2012 , 302, H244-52	5.2	37
153	Electrophysiological Source Imaging of Brain Networks Perturbed by Low-Intensity Transcranial Focused Ultrasound. <i>IEEE Transactions on Biomedical Engineering</i> , 2016 , 63, 1787-1794	5	35
152	Electrical Properties Tomography Based on $B_{1\rho}$ Maps in MRI: Principles, Applications, and Challenges. <i>IEEE Transactions on Biomedical Engineering</i> , 2017 , 64, 2515-2530	5	34
151	Motor imagery task classification for brain computer interface applications using spatiotemporal principle component analysis. <i>Neurological Research</i> , 2004 , 26, 282-7	2.7	34
150	High-resolution EEG: on the cortical equivalent dipole layer imaging. <i>Clinical Neurophysiology</i> , 2002 , 113, 227-35	4.3	34
149	Brain electric source imaging: scalp Laplacian mapping and cortical imaging. <i>Critical Reviews in Biomedical Engineering</i> , 1999 , 27, 149-88	1.1	34
148	Quantifying and Characterizing Tonic Thermal Pain Across Subjects From EEG Data Using Random Forest Models. <i>IEEE Transactions on Biomedical Engineering</i> , 2017 , 64, 2988-2996	5	33
147	Goal selection versus process control in a brain-computer interface based on sensorimotor rhythms. <i>Journal of Neural Engineering</i> , 2009 , 6, 016005	5	33
146	EEG source imaging: correlating source locations and extents with electrocorticography and surgical resections in epilepsy patients. <i>Journal of Clinical Neurophysiology</i> , 2007 , 24, 130-6	2.2	33
145	Body surface Laplacian mapping of cardiac electrical activity. <i>American Journal of Cardiology</i> , 1992 , 70, 1617-20	3	33
144	Noninvasive imaging of the high frequency brain activity in focal epilepsy patients. <i>IEEE Transactions on Biomedical Engineering</i> , 2014 , 61, 1660-7	5	32
143	A novel channel selection method for optimal classification in different motor imagery BCI paradigms. <i>BioMedical Engineering OnLine</i> , 2015 , 14, 93	4.1	32
142	Grand challenges in interfacing engineering with life sciences and medicine. <i>IEEE Transactions on Biomedical Engineering</i> , 2013 , 60, 589-98	5	32
141	Influence of white matter anisotropic conductivity on EEG source localization: comparison to fMRI in human primary visual cortex. <i>Clinical Neurophysiology</i> , 2009 , 120, 2071-2081	4.3	32

140	Magnetoacoustic tomography with magnetic induction for high-resolution bioimpedance imaging through vector source reconstruction under the static field of MRI magnet. <i>Medical Physics</i> , 2014 , 41, 022902	4.4	31
139	Magnetoacoustic tomography with magnetic induction: bioimpedance reconstruction through vector source imaging. <i>IEEE Transactions on Medical Imaging</i> , 2013 , 32, 619-27	11.7	31
138	Mapping the bilateral visual integration by EEG and fMRI. <i>NeuroImage</i> , 2009 , 46, 989-97	7.9	30
137	The influence of corticospinal activity on TMS-evoked activity and connectivity in healthy subjects: A TMS-EEG study. <i>PLoS ONE</i> , 2017 , 12, e0174879	3.7	29
136	Noninvasive Electromagnetic Source Imaging and Granger Causality Analysis: An Electrophysiological Connectome (eConnectome) Approach. <i>IEEE Transactions on Biomedical Engineering</i> , 2016 , 63, 2474-2487	5	29
135	The impact of mind-body awareness training on the early learning of a brain-computer interface. <i>Technology</i> , 2014 , 2, 254-260	3	29
134	Estimation of global ventricular activation sequences by noninvasive three-dimensional electrical imaging: validation studies in a Swine model during pacing. <i>Journal of Cardiovascular Electrophysiology</i> , 2008 , 19, 535-40	2.7	27
133	Noninvasive electromagnetic source imaging of spatiotemporally distributed epileptogenic brain sources. <i>Nature Communications</i> , 2020 , 11, 1946	17.4	27
132	On the Neuromodulatory Pathways of the Brain by Means of Transcranial Focused Ultrasound. <i>Current Opinion in Biomedical Engineering</i> , 2018 , 8, 61-69	4.4	27
131	Thalamocortical relationship in epileptic patients with generalized spike and wave discharges--A multimodal neuroimaging study. <i>NeuroImage: Clinical</i> , 2015 , 9, 117-27	5.3	26
130	Magneto acoustic tomography with short pulsed magnetic field for in-vivo imaging of magnetic iron oxide nanoparticles. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2016 , 12, 689-699	6	26
129	Spectral and spatial shifts of post-ictal slow waves in temporal lobe seizures. <i>Brain</i> , 2012 , 135, 3134-43	11.2	25
128	Spatio-temporal EEG source localization using a three-dimensional subspace FINE approach in a realistic geometry inhomogeneous head model. <i>IEEE Transactions on Biomedical Engineering</i> , 2006 , 53, 1732-9	5	24
127	Anodal Transcranial Direct Current Stimulation Increases Bilateral Directed Brain Connectivity during Motor-Imagery Based Brain-Computer Interface Control. <i>Frontiers in Neuroscience</i> , 2017 , 11, 691	5.1	23
126	Comparison of RF body coils for MRI at 3 T: a simulation study using parallel transmission on various anatomical targets. <i>NMR in Biomedicine</i> , 2015 , 28, 1332-44	4.4	23
125	EEG-fMRI reciprocal functional neuroimaging. <i>Clinical Neurophysiology</i> , 2010 , 121, 1240-50	4.3	23
124	Functional cortical source imaging from simultaneously recorded ERP and fMRI. <i>Journal of Neuroscience Methods</i> , 2006 , 157, 118-23	3	23
123	Noninvasive cardiac activation imaging of ventricular arrhythmias during drug-induced QT prolongation in the rabbit heart. <i>Heart Rhythm</i> , 2013 , 10, 1509-15	6.7	22

122	Noninvasive cortical imaging of epileptiform activities from interictal spikes in pediatric patients. <i>NeuroImage</i> , 2011 , 54, 244-52	7.9	22
121	Dynamic imaging of seizure activity in pediatric epilepsy patients. <i>Clinical Neurophysiology</i> , 2012 , 123, 2122-9	4.3	21
120	Electrophysiological Neuroimaging 2005 , 221-261		21
119	Equivalent dipole estimation of spontaneous EEG alpha activity: two-moving dipole approach. <i>Medical and Biological Engineering and Computing</i> , 1992 , 30, 324-32	3.1	21
118	Exploring Training Effect in 42 Human Subjects Using a Non-invasive Sensorimotor Rhythm Based Online BCI. <i>Frontiers in Human Neuroscience</i> , 2019 , 13, 128	3.3	20
117	Exploring Cognitive Flexibility With a Noninvasive BCI Using Simultaneous Steady-State Visual Evoked Potentials and Sensorimotor Rhythms. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2018 , 26, 936-947	4.8	20
116	Brain-Computer Interfaces 2020 , 131-183		20
115	Neurons that detect interocular conflict during binocular rivalry revealed with EEG. <i>Journal of Vision</i> , 2016 , 16, 18	0.4	20
114	Systems Neuroengineering: Understanding and Interacting with the Brain. <i>Engineering</i> , 2015 , 1, 292-308	9.7	19
113	Three-Dimensional Brain-Computer Interface Control Through Simultaneous Overt Spatial Attentional and Motor Imagery Tasks. <i>IEEE Transactions on Biomedical Engineering</i> , 2018 , 65, 2417-2427	5	19
112	In vivo imaging of electrical properties of an animal tumor model with an 8-channel transceiver array at 7 T using electrical properties tomography. <i>Magnetic Resonance in Medicine</i> , 2017 , 78, 2157-2169	4.4	18
111	Lateralization and localization of epilepsy related hemodynamic foci using presurgical fMRI. <i>Clinical Neurophysiology</i> , 2015 , 126, 27-38	4.3	18
110	Goal selection versus process control while learning to use a brain-computer interface. <i>Journal of Neural Engineering</i> , 2011 , 8, 036012	5	18
109	Sensorimotor Rhythm BCI with Simultaneous High Definition-Transcranial Direct Current Stimulation Alters Task Performance. <i>Brain Stimulation</i> , 2016 , 9, 834-841	5.1	17
108	Noninvasive mapping of transmural potentials during activation in swine hearts from body surface electrocardiograms. <i>IEEE Transactions on Medical Imaging</i> , 2012 , 31, 1777-85	11.7	17
107	3D source localization of interictal spikes in epilepsy patients with MRI lesions. <i>Physics in Medicine and Biology</i> , 2006 , 51, 4047-62	3.8	17
106	Temporal Sparse Promoting Three Dimensional Imaging of Cardiac Activation. <i>IEEE Transactions on Medical Imaging</i> , 2015 , 34, 2309-19	11.7	16
105	A minimal product method and its application to cortical imaging. <i>Brain Topography</i> , 2001 , 13, 209-17	4.3	15

104	Conflict-sensitive neurons gate interocular suppression in human visual cortex. <i>Scientific Reports</i> , 2018 , 8, 1239	4.9	14
103	EEG source localization. <i>Handbook of Clinical Neurology / Edited By P J Vinken and G W Bruyn</i> , 2019 , 160, 85-101	3	14
102	Effects of Soft Drinks on Resting State EEG and Brain-Computer Interface Performance. <i>IEEE Access</i> , 2017 , 5, 18756-18764	3.5	14
101	Quantitative prediction of radio frequency induced local heating derived from measured magnetic field maps in magnetic resonance imaging: A phantom validation at 7 T. <i>Applied Physics Letters</i> , 2014 , 105, 244101	3.4	14
100	Frequency of alpha oscillation predicts individual differences in perceptual stability during binocular rivalry. <i>Human Brain Mapping</i> , 2019 , 40, 2422-2433	5.9	13
99	A Study of the Effects of Electrode Number and Decoding Algorithm on Online EEG-Based BCI Behavioral Performance. <i>Frontiers in Neuroscience</i> , 2018 , 12, 227	5.1	13
98	Multiple Oscillatory Push-Pull Antagonisms Constrain Seizure Propagation. <i>Annals of Neurology</i> , 2019 , 86, 683-694	9.4	13
97	Imaging cardiac activation sequence during ventricular tachycardia in a canine model of nonischemic heart failure. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2015 , 308, H108-14	5.2	13
96	Equivalent moving dipole localization of cardiac ectopic activity in a swine model during pacing. <i>IEEE Transactions on Information Technology in Biomedicine</i> , 2010 , 14, 1318-26		13
95	An adaptive directed transfer function approach for detecting dynamic causal interactions. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , 2007 , 2007, 4949-52		13
94	Noninvasive Imaging of High-Frequency Drivers and Reconstruction of Global Dominant Frequency Maps in Patients With Paroxysmal and Persistent Atrial Fibrillation. <i>IEEE Transactions on Biomedical Engineering</i> , 2016 , 63, 1333-1340	5	13
93	Sparse cortical current density imaging in motor potentials induced by finger movement. <i>Journal of Neural Engineering</i> , 2011 , 8, 036008	5	12
92	Body surface Laplacian mapping in patients with left or right ventricular bundle branch block. <i>PACE - Pacing and Clinical Electrophysiology</i> , 1998 , 21, 2043-54	1.6	12
91	Three-dimensional cardiac electrical imaging from intracavity recordings. <i>IEEE Transactions on Biomedical Engineering</i> , 2007 , 54, 1454-60	5	12
90	Intrinsic functional neuron-type selectivity of transcranial focused ultrasound neuromodulation. <i>Nature Communications</i> , 2021 , 12, 2519	17.4	12
89	Electromagnetic source imaging using simultaneous scalp EEG and intracranial EEG: An emerging tool for interacting with pathological brain networks. <i>Clinical Neurophysiology</i> , 2018 , 129, 168-187	4.3	12
88	Deactivation in the posterior mid-cingulate cortex reflects perceptual transitions during binocular rivalry: Evidence from simultaneous EEG-fMRI. <i>NeuroImage</i> , 2017 , 152, 1-11	7.9	11
87	Neuromodulation Management of Chronic Neuropathic Pain in The Central Nervous system. <i>Advanced Functional Materials</i> , 2020 , 30, 1908999	15.6	11

86	SSVEP signatures of binocular rivalry during simultaneous EEG and fMRI. <i>Journal of Neuroscience Methods</i> , 2015 , 243, 53-62	3	11
85	Simultaneous Quantitative Imaging of Electrical Properties and Proton Density From B Maps Using MRI. <i>IEEE Transactions on Medical Imaging</i> , 2016 , 35, 2064-2073	11.7	11
84	Mindfulness Improves Brain-Computer Interface Performance by Increasing Control Over Neural Activity in the Alpha Band. <i>Cerebral Cortex</i> , 2021 , 31, 426-438	5.1	11
83	Electrophysiological Mapping and Neuroimaging 2013 , 499-543		11
82	Increased theta band EEG power in sickle cell disease patients. <i>Journal of Pain Research</i> , 2018 , 11, 67-76	2.9	10
81	Mapping electrical properties heterogeneity of tumor using boundary informed electrical properties tomography (BIEPT) at 7T. <i>Magnetic Resonance in Medicine</i> , 2019 , 81, 393-409	4.4	10
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