

Bin He

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Transcranial focused ultrasound induces sustained synaptic plasticity in rat hippocampus.. <i>Brain Stimulation</i> , 2022 ,	5.1	4
246	Interictal SEEG Resting-State Connectivity Localizes the Seizure Onset Zone and Predicts Seizure Outcome.. <i>Advanced Science</i> , 2022 , e2200887	13.6	0
245	Imaging the extent and location of spatiotemporally distributed epileptiform sources from MEG measurements. <i>NeuroImage: Clinical</i> , 2021 , 33, 102903	5.3	0
244	Transcranial Focused Ultrasound Neuromodulation of Voluntary Movement-Related Cortical Activity in Humans. <i>IEEE Transactions on Biomedical Engineering</i> , 2021 , 68, 1923-1931	5	8
243	Frontolimbic alpha activity tracks intentional rest BCI control improvement through mindfulness meditation. <i>Scientific Reports</i> , 2021 , 11, 6818	4.9	0
242	Noninvasive high-frequency oscillations riding spikes delineates epileptogenic sources. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	8
241	Continuous sensorimotor rhythm based brain computer interface learning in a large population. <i>Scientific Data</i> , 2021 , 8, 98	8.2	5
240	Transcranial Focused Ultrasound Enhances Sensory Discrimination Capability through Somatosensory Cortical Excitation. <i>Ultrasound in Medicine and Biology</i> , 2021 , 47, 1356-1366	3.5	7
239	Intrinsic functional neuron-type selectivity of transcranial focused ultrasound neuromodulation. <i>Nature Communications</i> , 2021 , 12, 2519	17.4	12
238	Benefits of deep learning classification of continuous noninvasive brain-computer interface control. <i>Journal of Neural Engineering</i> , 2021 , 18,	5	6
237	Exploring the extent of source imaging: Recent advances in noninvasive electromagnetic brain imaging. <i>Current Opinion in Biomedical Engineering</i> , 2021 , 18, 100277	4.4	7
236	Training in the practice of noninvasive brain stimulation: Recommendations from an IFCN committee. <i>Clinical Neurophysiology</i> , 2021 , 132, 819-837	4.3	10
235	Contribution of Ictal Source Imaging for Localizing Seizure Onset Zone in Patients With Focal Epilepsy. <i>Neurology</i> , 2021 , 96, e366-e375	6.5	3
234	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
233	High-Frequency Hubs of the Ictal Cross-Frequency Coupling Network Predict Surgical Outcome in Epilepsy Patients. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2021 , 29, 1290-1299	4.8	1
232	Therapeutic Ultrasound Triggered Silk Fibroin Scaffold Degradation. <i>Advanced Healthcare Materials</i> , 2021 , 10, e2100048	10.1	8
231	Progressive Increase of High-Frequency EEG Oscillations during Meditation is Associated with its Trait Effects on Heart Rate and Proteomics: A Study on the Tibetan Buddhist.. <i>Cerebral Cortex</i> , 2021	5.1	2

230	Brain-Heart Interactions Underlying Traditional Tibetan Buddhist Meditation. <i>Cerebral Cortex</i> , 2020 , 30, 439-450	5.1	7
229	Neuromodulation Management of Chronic Neuropathic Pain in The Central Nervous system. <i>Advanced Functional Materials</i> , 2020 , 30, 1908999	15.6	11
228	Exploring Functional and Causal Connectivity in the Brain 2020 , 415-432		
227	Spatial-temporal aspects of continuous EEG-based neurorobotic control. <i>Journal of Neural Engineering</i> , 2020 ,	5	6
226	Electrophysiological Mapping and Source Imaging 2020 , 379-413		2
225	Brain-Computer Interfaces 2020 , 131-183		20
224	Noninvasive electromagnetic source imaging of spatiotemporally distributed epileptogenic brain sources. <i>Nature Communications</i> , 2020 , 11, 1946	17.4	27
223	Effects of Long-Term Meditation Practices on Sensorimotor Rhythm-Based Brain-Computer Interface Learning. <i>Frontiers in Neuroscience</i> , 2020 , 14, 584971	5.1	1
222	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
221	Noninvasive neuroimaging enhances continuous neural tracking for robotic device control. <i>Science Robotics</i> , 2019 , 4,	18.6	121
220	Electrophysiological Brain Connectivity: Theory and Implementation. <i>IEEE Transactions on Biomedical Engineering</i> , 2019 ,	5	86
219	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
218	Noninvasive Activation Imaging of Ventricular Arrhythmias by Spatial Gradient Sparse in Frequency Domain-Application to Mapping Reentrant Ventricular Tachycardia. <i>IEEE Transactions on Medical Imaging</i> , 2019 , 38, 525-539	11.7	6
217	CONTRast Conformed Electrical Properties Tomography (CONCEPT) Based on Multi- Channel Transmission and Alternating Direction Method of Multipliers. <i>IEEE Transactions on Medical Imaging</i> , 2019 , 38, 349-359	11.7	8
216	Automated gradient-based electrical properties tomography in the human brain using 7 Tesla MRI. <i>Magnetic Resonance Imaging</i> , 2019 , 63, 258-266	3.3	4
215	EEG source localization. <i>Handbook of Clinical Neurology / Edited By P J Vinken and G W Bruyn</i> , 2019 , 160, 85-101	3	14
214	Multiple Oscillatory Push-Pull Antagonisms Constrain Seizure Propagation. <i>Annals of Neurology</i> , 2019 , 86, 683-694	9.4	13
213	Graph theory analysis reveals how sickle cell disease impacts neural networks of patients with more severe disease. <i>NeuroImage: Clinical</i> , 2019 , 21, 101599	5.3	7

212	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
211	Increased theta band EEG power in sickle cell disease patients. <i>Journal of Pain Research</i> , 2018 , 11, 67-76	2.9	10
210	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
209	Electrophysiological Source Imaging: A Noninvasive Window to Brain Dynamics. <i>Annual Review of Biomedical Engineering</i> , 2018 , 20, 171-196	12	87
208	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
207	Conflict-sensitive neurons gate interocular suppression in human visual cortex. <i>Scientific Reports</i> , 2018 , 8, 1239	4.9	14
206	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
205	Reply to "10-10 electrode system for EEG recording". <i>Clinical Neurophysiology</i> , 2018 , 129, 1104	4.3	
204	Three-Dimensional Noninvasive Imaging of Ventricular Arrhythmias in Patients With Premature Ventricular Contractions. <i>IEEE Transactions on Biomedical Engineering</i> , 2018 , 65, 1495-1503	5	9
203	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
202	Electromagnetic Brain Source Imaging by Means of a Robust Minimum Variance Beamformer. <i>IEEE Transactions on Biomedical Engineering</i> , 2018 , 65, 2365-2374	5	7
201	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
200	Effect of Electroconvulsive Therapy on Medial Prefrontal γ -Aminobutyric Acid Among Schizophrenia Patients: A Proton Magnetic Resonance Spectroscopy Study. <i>Journal of ECT</i> , 2018 , 34, 227-232	2	7
199	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
198	EEG electrode digitization with commercial virtual reality hardware. <i>PLoS ONE</i> , 2018 , 13, e0207516	3.7	5
197	Stimulus rivalry and binocular rivalry share a common neural substrate. <i>Journal of Vision</i> , 2018 , 18, 18	0.4	2
196	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
195	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

194	Activation recovery interval imaging of premature ventricular contraction. <i>PLoS ONE</i> , 2018 , 13, e0196916	6.7	2
193	TBME: A Retrospective. <i>IEEE Transactions on Biomedical Engineering</i> , 2018 , 65, 2673-2674	5	
192	Validation and Opportunities of Electrocardiographic Imaging: From Technical Achievements to Clinical Applications. <i>Frontiers in Physiology</i> , 2018 , 9, 1305	4.6	56
191	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
190	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
189	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
188	Seizure prediction in patients with focal hippocampal epilepsy. <i>Clinical Neurophysiology</i> , 2017 , 128, 1299-1307	4.3	41
187	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
186	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
185	Effects of Soft Drinks on Resting State EEG and Brain-Computer Interface Performance. <i>IEEE Access</i> , 2017 , 5, 18756-18764	3.5	14
184	The standardized EEG electrode array of the IFCN. <i>Clinical Neurophysiology</i> , 2017 , 128, 2070-2077	4.3	168
183	Electrical Properties Tomography Based on B_{1} Maps in MRI: Principles, Applications, and Challenges. <i>IEEE Transactions on Biomedical Engineering</i> , 2017 , 64, 2515-2530	5	34
182	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
181	EEG Mapping and Source Imaging 2017 ,		6
180	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
179	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
178	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
177	Focused Ultrasound Help Realize High Spatiotemporal Brain Imaging?-A Concept on Acousto-Electrophysiological Neuroimaging. <i>IEEE Transactions on Biomedical Engineering</i> , 2016 , 63, 2654-2656	5	8

176	Identifying epileptic source location and extent: an iterative sparse electromagnetic source imaging algorithm. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2016, 2016-1109-1112</i>	0.9	
175	Soft drink effects on sensorimotor rhythm brain computer interface performance and resting-state spectral power. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2016, 1520-1523</i>	0.9	2
174	Identification of Source Signals by Estimating Directional Index of Phase Coupling in Multivariate Neural Systems. <i>Journal of Medical and Biological Engineering, 2016, 36, 273-281</i>	2.2	
173	EEG Source Imaging Enhances the Decoding of Complex Right-Hand Motor Imagery Tasks. <i>IEEE Transactions on Biomedical Engineering, 2016, 63, 4-14</i>	5	176
172	Magneto acoustic tomography with short pulsed magnetic field for in-vivo imaging of magnetic iron oxide nanoparticles. <i>Nanomedicine: Nanotechnology, Biology, and Medicine, 2016, 12, 689-699</i>	6	26
171	Non-Invasive Multi-Modal Imaging to Evaluate Disease Severity in Sickle Cell Disease. <i>Blood, 2016, 128, 1315-1315</i>	2.2	
170	Neurons that detect interocular conflict during binocular rivalry revealed with EEG. <i>Journal of Vision, 2016, 16, 18</i>	0.4	20
169	Investigating Cooperative Behavior in Ecological Settings: An EEG Hyperscanning Study. <i>PLoS ONE, 2016, 11, e0154236</i>	3.7	93
168	Noninvasive Imaging of Human Atrial Activation during Atrial Flutter and Normal Rhythm from Body Surface Potential Maps. <i>PLoS ONE, 2016, 11, e0163445</i>	3.7	6
167	Spectral and spatial changes of brain rhythmic activity in response to the sustained thermal pain stimulation. <i>Human Brain Mapping, 2016, 37, 2976-91</i>	5.9	39
166	Noninvasive Electroencephalogram Based Control of a Robotic Arm for Reach and Grasp Tasks. <i>Scientific Reports, 2016, 6, 38565</i>	4.9	213
165	Imaging brain source extent from EEG/MEG by means of an iteratively reweighted edge sparsity minimization (IRES) strategy. <i>NeuroImage, 2016, 142, 27-42</i>	7.9	45
164	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, 2016, 63, 1333-1340</i>	5	13
163	Simultaneous Quantitative Imaging of Electrical Properties and Proton Density From B Maps Using MRI. <i>IEEE Transactions on Medical Imaging, 2016, 35, 2064-2073</i>	11.7	11
162	Noninvasive imaging of 3-dimensional myocardial infarction from the inverse solution of equivalent current density in pathological hearts. <i>IEEE Transactions on Biomedical Engineering, 2015, 62, 468-76</i>	5	8
161	2015,		8
160	Temporal Sparse Promoting Three Dimensional Imaging of Cardiac Activation. <i>IEEE Transactions on Medical Imaging, 2015, 34, 2309-19</i>	11.7	16
159	Thalamocortical relationship in epileptic patients with generalized spike and wave discharges--A multimodal neuroimaging study. <i>NeuroImage: Clinical, 2015, 9, 117-27</i>	5.3	26

158	Lateralization and localization of epilepsy related hemodynamic foci using presurgical fMRI. <i>Clinical Neurophysiology</i> , 2015 , 126, 27-38	4.3	18
157	Systems Neuroengineering: Understanding and Interacting with the Brain. <i>Engineering</i> , 2015 , 1, 292-308	9.7	19
156	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
155	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
154	Noninvasive Brain-Computer Interfaces Based on Sensorimotor Rhythms. <i>Proceedings of the IEEE</i> , 2015 , 103, 907-925	14.3	119
153	Estimating underlying neuronal activity from EEG using an iterative sparse technique. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2015 , 2015, 634-7	0.9	1
152	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
151	Effect of EEG electrode number on epileptic source localization in pediatric patients. <i>Clinical Neurophysiology</i> , 2015 , 126, 472-80	4.3	69
150	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
149	SSVEP signatures of binocular rivalry during simultaneous EEG and fMRI. <i>Journal of Neuroscience Methods</i> , 2015 , 243, 53-62	3	11
148	Recognition of Biomarkers of Brain Connectivity and Pain Using Multi-Modal Imaging in Patients with Sickle Cell Disease. <i>Blood</i> , 2015 , 126, 971-971	2.2	
147	Brain-computer interfaces using sensorimotor rhythms: current state and future perspectives. <i>IEEE Transactions on Biomedical Engineering</i> , 2014 , 61, 1425-35	5	264
146	Assessing dynamic spectral causality by lagged adaptive directed transfer function and instantaneous effect factor. <i>IEEE Transactions on Biomedical Engineering</i> , 2014 , 61, 1979-88	5	8
145	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
144	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
143	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
142	Celebrating 60th Anniversary of TBME [Special issue editorial]. <i>IEEE Transactions on Biomedical Engineering</i> , 2014 , 61, 1363-1363	5	
141	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

140	Magnetic-resonance-based electrical properties tomography: a review. <i>IEEE Reviews in Biomedical Engineering</i> , 2014 , 7, 87-96	6.4	59
139	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
138	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
137	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
136	Neuromodulation for brain disorders: challenges and opportunities. <i>IEEE Transactions on Biomedical Engineering</i> , 2013 , 60, 610-24	5	107
135	Exploring Functional and Causal Connectivity in the Brain 2013 , 545-564		3
134	Brain-Computer Interfaces 2013 , 87-151		70
133	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
132	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
131	Noninvasive control of a robotic arm in multiple dimensions using scalp electroencephalogram 2013 ,		9
130	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
129	Grand challenges in mapping the human brain: NSF workshop report. <i>IEEE Transactions on Biomedical Engineering</i> , 2013 , 60, 2983-92	5	51
128	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
127	Grand challenges in interfacing engineering with life sciences and medicine. <i>IEEE Transactions on Biomedical Engineering</i> , 2013 , 60, 589-98	5	32
126	Electrophysiological Mapping and Neuroimaging 2013 , 499-543		11
125	EEG-based motor imagery classification accuracy improves with gradually increased channel number. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2012 , 2012, 1695-8	0.9	2
124	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
123	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

122	Dynamic imaging of seizure activity in pediatric epilepsy patients. <i>Clinical Neurophysiology</i> , 2012 , 123, 2122-9	4.3	21
121	Spectral and spatial shifts of post-ictal slow waves in temporal lobe seizures. <i>Brain</i> , 2012 , 135, 3134-43	11.2	25
120	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
119	Source connectivity analysis from MEG and its application to epilepsy source localization. <i>Brain Topography</i> , 2012 , 25, 157-66	4.3	43
118	Noninvasive imaging of three-dimensional cardiac activation sequence during pacing and ventricular tachycardia. <i>Heart Rhythm</i> , 2011 , 8, 1266-72	6.7	38
117	Dynamic imaging of ictal oscillations using non-invasive high-resolution EEG. <i>NeuroImage</i> , 2011 , 56, 1908-17	7.7	65
116	Noninvasive cortical imaging of epileptiform activities from interictal spikes in pediatric patients. <i>NeuroImage</i> , 2011 , 54, 244-52	7.9	22
115	Interictal spike analysis of high-density EEG in patients with partial epilepsy. <i>Clinical Neurophysiology</i> , 2011 , 122, 1098-105	4.3	52
114	Goal selection versus process control while learning to use a brain-computer interface. <i>Journal of Neural Engineering</i> , 2011 , 8, 036012	5	18
113	Hand movement decoding by phase-locking low frequency EEG signals. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2011 , 2011, 6335-8	0.9	5
112	Binocular rivalry requires visual attention. <i>Neuron</i> , 2011 , 71, 362-9	13.9	184
111	Graph analysis of epileptogenic networks in human partial epilepsy. <i>Epilepsia</i> , 2011 , 52, 84-93	6.4	213
110	Three-dimensional imaging of ventricular activation and electrograms from intracavitary recordings. <i>IEEE Transactions on Biomedical Engineering</i> , 2011 , 58, 868-75	5	3
109	Electrophysiological imaging of brain activity and connectivity-challenges and opportunities. <i>IEEE Transactions on Biomedical Engineering</i> , 2011 , 58, 1918-31	5	194
108	MEG-based brain functional connectivity analysis using eConnectome 2011 ,		3
107	eConnectome: A MATLAB toolbox for mapping and imaging of brain functional connectivity. <i>Journal of Neuroscience Methods</i> , 2011 , 195, 261-9	3	152
106	Magnetoacoustic imaging of human liver tumor with magnetic induction. <i>Applied Physics Letters</i> , 2011 , 98, 23703	3.4	46
105	Sparse cortical current density imaging in motor potentials induced by finger movement. <i>Journal of Neural Engineering</i> , 2011 , 8, 036008	5	12

104	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
103	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
102	Relationship between speed and EEG activity during imagined and executed hand movements. <i>Journal of Neural Engineering</i> , 2010 , 7, 26001	5	89
101	EEG-fMRI reciprocal functional neuroimaging. <i>Clinical Neurophysiology</i> , 2010 , 121, 1240-50	4.3	23
100	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
99	Linear and nonlinear relationships between visual stimuli, EEG and BOLD fMRI signals. <i>NeuroImage</i> , 2010 , 50, 1054-66	7.9	61
98	Decoding speed of imagined hand movement from EEG. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2010 , 2010, 142-5	0.9	1
97	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
96	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
95	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
94	Neocortical seizure foci localization by means of a directed transfer function method. <i>Epilepsia</i> , 2010 , 51, 564-72	6.4	110
93	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
92	Cortical imaging of sensorimotor rhythms for BCI applications. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2009 , 2009, 4539-42	0.9	2
91	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
90	Three-dimensional imaging of complex neural activation in humans from EEG. <i>IEEE Transactions on Biomedical Engineering</i> , 2009 , 56, 1980-8	5	5
89	Identification of epileptogenic foci from causal analysis of ECoG interictal spike activity. <i>Clinical Neurophysiology</i> , 2009 , 120, 1449-56	4.3	64
88	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
87	Mapping the bilateral visual integration by EEG and fMRI. <i>NeuroImage</i> , 2009 , 46, 989-97	7.9	30

86	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
85	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
84	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
83	fMRI-EEG integrated cortical source imaging by use of time-variant spatial constraints. <i>NeuroImage</i> , 2008 , 39, 1198-214	7.9	83
82	Three-dimensional brain current source reconstruction from intra-cranial ECoG recordings. <i>NeuroImage</i> , 2008 , 42, 683-95	7.9	56
81	Recurrence based deterministic trends in EEG records of epilepsy patients 2008 ,		3
80	Multimodal functional neuroimaging: integrating functional MRI and EEG/MEG. <i>IEEE Reviews in Biomedical Engineering</i> , 2008 , 1, 23-40	6.4	88
79	Functional neuroimaging of dynamic brain activation. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2008 , 2008, 3355	0.9	
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8	On the forward problem of EEG cortical imaging by means of finite element method		2
7	EEG source analysis of motor potentials induced by fast repetitive unilateral finger movement		5
6	Classification of Motor Imagery Tasks by means of Time-Frequency-Spatial Analysis for Brain-Computer Interface Applications		4
5	A model study of body surface Laplacian maps for myocardial infarctions		1
4	Body surface Laplacian mapping of ventricular depolarization from potential recordings in humans		1
3	Mindfulness Improves Brain Computer Interface Performance by Increasing Control over Neural Activity in the Alpha Band		3
2	Benefits of Deep Learning Classification of Continuous Noninvasive Brain-Computer Interface Control		1
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