

Bin He

List of Publications by Year in descending order

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288
papers

14,722
citations

16411

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docs citations

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times ranked

9822
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Quadcopter control in three-dimensional space using a noninvasive motor imagery-based brain-computer interface. <i>Journal of Neural Engineering</i> , 2013, 10, 046003. | 1.8 | 452 |
| 2 | 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, 118-131. | 2.1 | 362 |
| 3 | Brain-Computer Interfaces Using Sensorimotor Rhythms: Current State and Future Perspectives. <i>IEEE Transactions on Biomedical Engineering</i> , 2014, 61, 1425-1435. | 2.5 | 361 |
| 4 | Noninvasive Electroencephalogram Based Control of a Robotic Arm for Reach and Grasp Tasks. <i>Scientific Reports</i> , 2016, 6, 38565. | 1.6 | 333 |
| 5 | The standardized EEG electrode array of the IFCN. <i>Clinical Neurophysiology</i> , 2017, 128, 2070-2077. | 0.7 | 320 |
| 6 | Comparison of different cortical connectivity estimators for high-resolution EEG recordings. <i>Human Brain Mapping</i> , 2007, 28, 143-157. | 1.9 | 317 |
| 7 | Graph analysis of epileptogenic networks in human partial epilepsy. <i>Epilepsia</i> , 2011, 52, 84-93. | 2.6 | 295 |
| 8 | Electric Dipole Tracing in the Brain by Means of the Boundary Element Method and Its Accuracy. <i>IEEE Transactions on Biomedical Engineering</i> , 1987, BME-34, 406-414. | 2.5 | 291 |
| 9 | EEG Source Imaging Enhances the Decoding of Complex Right-Hand Motor Imagery Tasks. <i>IEEE Transactions on Biomedical Engineering</i> , 2016, 63, 4-14. | 2.5 | 277 |
| 10 | Electrophysiological Imaging of Brain Activity and Connectivity—Challenges and Opportunities. <i>IEEE Transactions on Biomedical Engineering</i> , 2011, 58, 1918-1931. | 2.5 | 239 |
| 11 | Noninvasive neuroimaging enhances continuous neural tracking for robotic device control. <i>Science Robotics</i> , 2019, 4, . | 9.9 | 227 |
| 12 | Binocular Rivalry Requires Visual Attention. <i>Neuron</i> , 2011, 71, 362-369. | 3.8 | 224 |
| 13 | 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, 2596-2606. | 2.1 | 222 |
| 14 | 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. | 1.8 | 216 |
| 15 | Continuous Three-Dimensional Control of a Virtual Helicopter Using a Motor Imagery Based Brain-Computer Interface. <i>PLoS ONE</i> , 2011, 6, e26322. | 1.1 | 204 |
| 16 | eConnectome: A MATLAB toolbox for mapping and imaging of brain functional connectivity. <i>Journal of Neuroscience Methods</i> , 2011, 195, 261-269. | 1.3 | 201 |
| 17 | Magnetoacoustic tomography with magnetic induction (MAT-MI). <i>Physics in Medicine and Biology</i> , 2005, 50, 5175-5187. | 1.6 | 193 |
| 18 | Motor imagery classification by means of source analysis for brain-computer interface applications. <i>Journal of Neural Engineering</i> , 2004, 1, 135-141. | 1.8 | 189 |

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 19 | EEG Control of a Virtual Helicopter in 3-Dimensional Space Using Intelligent Control Strategies. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2010, 18, 581-589. | 2.7 | 188 |
| 20 | Estimation of in vivo human brain-to-skull conductivity ratio from simultaneous extra- and intra-cranial electrical potential recordings. Clinical Neurophysiology, 2005, 116, 456-465. | 0.7 | 180 |
| 21 | Electrophysiological Source Imaging: A Noninvasive Window to Brain Dynamics. Annual Review of Biomedical Engineering, 2018, 20, 171-196. | 5.7 | 176 |
| 22 | Ictal source analysis: Localization and imaging of causal interactions in humans. NeuroImage, 2007, 34, 575-586. | 2.1 | 171 |
| 23 | Classifying EEG-based motor imagery tasks by means of time-frequency synthesized spatial patterns. Clinical Neurophysiology, 2004, 115, 2744-2753. | 0.7 | 168 |
| 24 | Noninvasive Brain-Computer Interfaces Based on Sensorimotor Rhythms. Proceedings of the IEEE, 2015, 103, 907-925. | 16.4 | 166 |
| 25 | Electrophysiological Brain Connectivity: Theory and Implementation. IEEE Transactions on Biomedical Engineering, 2019, 66, 2115-2137. | 2.5 | 163 |
| 26 | Defecting or Not Defecting: How to "Read" Human Behavior during Cooperative Games by EEG Measurements. PLoS ONE, 2010, 5, e14187. | 1.1 | 151 |
| 27 | Neuromodulation for Brain Disorders: Challenges and Opportunities. IEEE Transactions on Biomedical Engineering, 2013, 60, 610-624. | 2.5 | 148 |
| 28 | Investigating Cooperative Behavior in Ecological Settings: An EEG Hyperscanning Study. PLoS ONE, 2016, 11, e0154236. | 1.1 | 140 |
| 29 | Brain "Computer Interface. , 2005, , 85-121. | | 137 |
| 30 | Estimation of Time-Varying Connectivity Patterns Through the Use of an Adaptive Directed Transfer Function. IEEE Transactions on Biomedical Engineering, 2008, 55, 2557-2564. | 2.5 | 130 |
| 31 | Neocortical seizure foci localization by means of a directed transfer function method. Epilepsia, 2010, 51, 564-572. | 2.6 | 130 |
| 32 | Estimating cortical potentials from scalp EEGs in a realistically shaped inhomogeneous head model by means of the boundary element method. IEEE Transactions on Biomedical Engineering, 1999, 46, 1264-1268. | 2.5 | 120 |
| 33 | Multimodal Functional Neuroimaging: Integrating Functional MRI and EEG/MEG. IEEE Reviews in Biomedical Engineering, 2008, 1, 23-40. | 13.1 | 120 |
| 34 | Effect of EEG electrode number on epileptic source localization in pediatric patients. Clinical Neurophysiology, 2015, 126, 472-480. | 0.7 | 119 |
| 35 | Brain-Computer Interface Control in a Virtual Reality Environment and Applications for the Internet of Things. IEEE Access, 2018, 6, 10840-10849. | 2.6 | 119 |
| 36 | Relationship between speed and EEG activity during imagined and executed hand movements. Journal of Neural Engineering, 2010, 7, 026001. | 1.8 | 117 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 37 | 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, 166-171. | 2.7 | 114 |
| 38 | Estimation of in vivo brain-to-skull conductivity ratio in humans. <i>Applied Physics Letters</i> , 2006, 89, 223903. | 1.5 | 114 |
| 39 | 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, 1190-1202. | 2.5 | 112 |
| 40 | Sparse source imaging in electroencephalography with accurate field modeling. <i>Human Brain Mapping</i> , 2008, 29, 1053-1067. | 1.9 | 112 |
| 41 | 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, 425-431. | 2.7 | 105 |
| 42 | Intrinsic functional neuron-type selectivity of transcranial focused ultrasound neuromodulation. <i>Nature Communications</i> , 2021, 12, 2519. | 5.8 | 102 |
| 43 | Boundary Element Method-Based Cortical Potential Imaging of Somatosensory Evoked Potentials Using Subjects' Magnetic Resonance Images. <i>NeuroImage</i> , 2002, 16, 564-576. | 2.1 | 97 |
| 44 | 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, 323-330. | 2.5 | 95 |
| 45 | 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, 1457-1470. | 1.0 | 92 |
| 46 | fMRI–EEG integrated cortical source imaging by use of time-variant spatial constraints. <i>NeuroImage</i> , 2008, 39, 1198-1214. | 2.1 | 91 |
| 47 | 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, 1967-1978. | 2.5 | 90 |
| 48 | 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, 660-669. | 2.5 | 89 |
| 49 | Validation and Opportunities of Electrocardiographic Imaging: From Technical Achievements to Clinical Applications. <i>Frontiers in Physiology</i> , 2018, 9, 1305. | 1.3 | 89 |
| 50 | 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, 3067-3083. | 1.6 | 87 |
| 51 | 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, 1275-1283. | 0.7 | 86 |
| 52 | Dynamic imaging of ictal oscillations using non-invasive high-resolution EEG. <i>NeuroImage</i> , 2011, 56, 1908-1917. | 2.1 | 83 |
| 53 | High-resolution EEG: a new realistic geometry spline Laplacian estimation technique. <i>Clinical Neurophysiology</i> , 2001, 112, 845-852. | 0.7 | 81 |
| 54 | 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, 1307-1318. | 5.4 | 81 |

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|----|--|------|-----------|
| 55 | Evaluation of cortical current density imaging methods using intracranial electrocorticograms and functional MRI. <i>NeuroImage</i> , 2007, 35, 598-608. | 2.1 | 80 |
| 56 | 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, 634-646. | 1.9 | 80 |
| 57 | Imaging Electric Properties of Biological Tissues by RF Field Mapping in MRI. <i>IEEE Transactions on Medical Imaging</i> , 2010, 29, 474-481. | 5.4 | 79 |
| 58 | Linear and nonlinear relationships between visual stimuli, EEG and BOLD fMRI signals. <i>NeuroImage</i> , 2010, 50, 1054-1066. | 2.1 | 79 |
| 59 | A computer simulation study of cortical imaging from scalp potentials. <i>IEEE Transactions on Biomedical Engineering</i> , 1998, 45, 724-735. | 2.5 | 78 |
| 60 | Brain-Computer Interfaces. , 2013, , 87-151. | | 78 |
| 61 | Identification of epileptogenic foci from causal analysis of ECoG interictal spike activity. <i>Clinical Neurophysiology</i> , 2009, 120, 1449-1456. | 0.7 | 75 |
| 62 | Magnetic-Resonance-Based Electrical Properties Tomography: A Review. <i>IEEE Reviews in Biomedical Engineering</i> , 2014, 7, 87-96. | 13.1 | 75 |
| 63 | A Self-Coherence Enhancement Algorithm and its Application to Enhancing Three-Dimensional Source Estimation from EEGs. <i>Annals of Biomedical Engineering</i> , 2001, 29, 1019-1027. | 1.3 | 73 |
| 64 | A cortical potential imaging study from simultaneous extra- and intracranial electrical recordings by means of the finite element method. <i>NeuroImage</i> , 2006, 31, 1513-1524. | 2.1 | 73 |
| 65 | 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. | 1.8 | 72 |
| 66 | An alternative subspace approach to EEG dipole source localization. <i>Physics in Medicine and Biology</i> , 2004, 49, 327-343. | 1.6 | 69 |
| 67 | Noninvasive three-dimensional electrocardiographic imaging of ventricular activation sequence. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2005, 289, H2724-H2732. | 1.5 | 68 |
| 68 | Interictal spike analysis of high-density EEG in patients with partial epilepsy. <i>Clinical Neurophysiology</i> , 2011, 122, 1098-1105. | 0.7 | 68 |
| 69 | 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. | 1.4 | 68 |
| 70 | Imaging and visualization of 3-D cardiac electric activity. <i>IEEE Transactions on Information Technology in Biomedicine</i> , 2001, 5, 181-186. | 3.6 | 66 |
| 71 | Combined rTMS and virtual reality brain-computer interface training for motor recovery after stroke. <i>Journal of Neural Engineering</i> , 2018, 15, 016009. | 1.8 | 66 |
| 72 | Complex B ₁ 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, 1285-1296. | 1.9 | 65 |

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| 73 | Seizure prediction in patients with focal hippocampal epilepsy. <i>Clinical Neurophysiology</i> , 2017, 128, 1299-1307. | 0.7 | 65 |
| 74 | 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, 757-768. | 2.5 | 64 |
| 75 | Three-dimensional brain current source reconstruction from intra-cranial ECoG recordings. <i>NeuroImage</i> , 2008, 42, 683-695. | 2.1 | 64 |
| 76 | 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. | 2.1 | 64 |
| 77 | Grand Challenges in Mapping the Human Brain: NSF Workshop Report. <i>IEEE Transactions on Biomedical Engineering</i> , 2013, 60, 2983-2992. | 2.5 | 62 |
| 78 | Noninvasive electromagnetic source imaging of spatiotemporally distributed epileptogenic brain sources. <i>Nature Communications</i> , 2020, 11, 1946. | 5.8 | 61 |
| 79 | An enhanced time-frequency-spatial approach for motor imagery classification. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2006, 14, 250-254. | 2.7 | 60 |
| 80 | From Complex \mathbb{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, 1058-1067. | 5.4 | 60 |
| 81 | 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. | 2.5 | 60 |
| 82 | Electrophysiological Source Imaging of Brain Networks Perturbed by Low-Intensity Transcranial Focused Ultrasound. <i>IEEE Transactions on Biomedical Engineering</i> , 2016, 63, 1787-1794. | 2.5 | 58 |
| 83 | 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, 4063-4078. | 1.6 | 57 |
| 84 | 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. | 2.5 | 57 |
| 85 | EEG source localization. <i>Handbook of Clinical Neurology</i> / Edited By P J Vinken and G W Bruyn, 2019, 160, 85-101. | 1.0 | 56 |
| 86 | 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. | 2.5 | 55 |
| 87 | High-Resolution Spatio-Temporal Functional Neuroimaging of Brain Activity. <i>Critical Reviews in Biomedical Engineering</i> , 2002, 30, 283-306. | 0.5 | 55 |
| 88 | 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, 277-288. | 2.5 | 54 |
| 89 | Brain-Computer Interfaces. , 2020, , 131-183. | | 53 |
| 90 | Magnetoacoustic imaging of human liver tumor with magnetic induction. <i>Applied Physics Letters</i> , 2011, 98, 23703. | 1.5 | 52 |

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| 91 | The influence of corticospinal activity on TMS-evoked activity and connectivity in healthy subjects: A TMS-EEG study. PLoS ONE, 2017, 12, e0174879. | 1.1 | 52 |
| 92 | Estimation of electrical conductivity distribution within the human head from magnetic flux density measurement. Physics in Medicine and Biology, 2005, 50, 2675-2687. | 1.6 | 51 |
| 93 | Source Connectivity Analysis from MEG and its Application to Epilepsy Source Localization. Brain Topography, 2012, 25, 157-166. | 0.8 | 50 |
| 94 | A bioelectric inverse imaging technique based on surface Laplacians. IEEE Transactions on Biomedical Engineering, 1997, 44, 529-538. | 2.5 | 49 |
| 95 | Spectral and spatial changes of brain rhythmic activity in response to the sustained thermal pain stimulation. Human Brain Mapping, 2016, 37, 2976-2991. | 1.9 | 49 |
| 96 | Spatial resolution of EEG cortical source imaging revealed by localization of retinotopic organization in human primary visual cortex. Journal of Neuroscience Methods, 2007, 161, 142-154. | 1.3 | 48 |
| 97 | An efficient rhythmic component expression and weighting synthesis strategy for classifying motor imagery EEG in a brain-computer interface. Journal of Neural Engineering, 2004, 1, 1-7. | 1.8 | 47 |
| 98 | A novel channel selection method for optimal classification in different motor imagery BCI paradigms. BioMedical Engineering OnLine, 2015, 14, 93. | 1.3 | 46 |
| 99 | On the neuromodulatory pathways of the in vivo brain by means of transcranial focused ultrasound. Current Opinion in Biomedical Engineering, 2018, 8, 61-69. | 1.8 | 45 |
| 100 | Differential Electrophysiological Coupling for Positive and Negative BOLD Responses during Unilateral Hand Movements. Journal of Neuroscience, 2011, 31, 9585-9593. | 1.7 | 44 |
| 101 | Determining electrical properties based on B_1 fields measured in an MR scanner using a multi-channel transmit/receive coil: a general approach. Physics in Medicine and Biology, 2013, 58, 4395-4408. | 1.6 | 44 |
| 102 | Noninvasive Three-Dimensional Cardiac Activation Imaging From Body Surface Potential Maps: A Computational and Experimental Study on a Rabbit Model. IEEE Transactions on Medical Imaging, 2008, 27, 1622-1630. | 5.4 | 43 |
| 103 | Influence of white matter anisotropic conductivity on EEG source localization: Comparison to fMRI in human primary visual cortex. Clinical Neurophysiology, 2009, 120, 2071-2081. | 0.7 | 43 |
| 104 | Noninvasive Electromagnetic Source Imaging and Granger Causality Analysis: An Electrophysiological Connectome (eConnectome) Approach. IEEE Transactions on Biomedical Engineering, 2016, 63, 2474-2487. | 2.5 | 43 |
| 105 | Grand Challenges in Interfacing Engineering With Life Sciences and Medicine. IEEE Transactions on Biomedical Engineering, 2013, 60, 589-598. | 2.5 | 42 |
| 106 | High-resolution EEG: on the cortical equivalent dipole layer imaging. Clinical Neurophysiology, 2002, 113, 227-235. | 0.7 | 41 |
| 107 | Noninvasive imaging of three-dimensional cardiac activation sequence during pacing and ventricular tachycardia. Heart Rhythm, 2011, 8, 1266-1272. | 0.3 | 41 |
| 108 | Magnetoacoustic Tomography With Magnetic Induction: Bioimpedance Reconstruction Through Vector Source Imaging. IEEE Transactions on Medical Imaging, 2013, 32, 619-627. | 5.4 | 41 |

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|-----|---|-----|-----------|
| 109 | 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. | 2.5 | 41 |
| 110 | Body surface Laplacian mapping of cardiac electrical activity. <i>American Journal of Cardiology</i> , 1992, 70, 1617-1620. | 0.7 | 40 |
| 111 | The impact of mind-body awareness training on the early learning of a brain-computer interface. <i>Technology</i> , 2014, 02, 254-260. | 1.4 | 40 |
| 112 | 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. | 1.0 | 40 |
| 113 | EEG Source Imaging: Correlating Source Locations and Extents With Electroconvulsive Therapy and Surgical Resections in Epilepsy Patients. <i>Journal of Clinical Neurophysiology</i> , 2007, 24, 130-136. | 0.9 | 39 |
| 114 | Noninvasive Imaging of the High Frequency Brain Activity in Focal Epilepsy Patients. <i>IEEE Transactions on Biomedical Engineering</i> , 2014, 61, 1660-1667. | 2.5 | 39 |
| 115 | Thalamocortical relationship in epileptic patients with generalized spike and wave discharges – A multimodal neuroimaging study. <i>NeuroImage: Clinical</i> , 2015, 9, 117-127. | 1.4 | 39 |
| 116 | Motor imagery task classification for brain computer interface applications using spatiotemporal principle component analysis. <i>Neurological Research</i> , 2004, 26, 282-287. | 0.6 | 38 |
| 117 | Goal selection versus process control in a brain-computer interface based on sensorimotor rhythms. <i>Journal of Neural Engineering</i> , 2009, 6, 016005. | 1.8 | 38 |
| 118 | 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-H252. | 1.5 | 38 |
| 119 | Training in the practice of noninvasive brain stimulation: Recommendations from an IFCN committee. <i>Clinical Neurophysiology</i> , 2021, 132, 819-837. | 0.7 | 38 |
| 120 | Brain electric source imaging: scalp Laplacian mapping and cortical imaging. <i>Critical Reviews in Biomedical Engineering</i> , 1999, 27, 149-88. | 0.5 | 37 |
| 121 | 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. | 1.6 | 36 |
| 122 | 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, . | 3.3 | 35 |
| 123 | Mapping the bilateral visual integration by EEG and fMRI. <i>NeuroImage</i> , 2009, 46, 989-997. | 2.1 | 33 |
| 124 | Spectral and spatial shifts of post-ictal slow waves in temporal lobe seizures. <i>Brain</i> , 2012, 135, 3134-3143. | 3.7 | 33 |
| 125 | Neuromodulation Management of Chronic Neuropathic Pain in the Central Nervous System. <i>Advanced Functional Materials</i> , 2020, 30, 1908999. | 7.8 | 33 |
| 126 | Mindfulness Improves Brain-Computer Interface Performance by Increasing Control Over Neural Activity in the Alpha Band. <i>Cerebral Cortex</i> , 2021, 31, 426-438. | 1.6 | 33 |

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|-----|--|-----|-----------|
| 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. | 1.4 | 31 |
| 128 | Systems Neuroengineering: Understanding and Interacting with the Brain. <i>Engineering</i> , 2015, 1, 292-308. | 3.2 | 30 |
| 129 | Lateralization and localization of epilepsy related hemodynamic foci using presurgical fMRI. <i>Clinical Neurophysiology</i> , 2015, 126, 27-38. | 0.7 | 30 |
| 130 | Transcranial focused ultrasound induces sustained synaptic plasticity in rat hippocampus. <i>Brain Stimulation</i> , 2022, 15, 352-359. | 0.7 | 30 |
| 131 | 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, 1732-1739. | 2.5 | 29 |
| 132 | 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. | 1.7 | 29 |
| 133 | Equivalent dipole estimation of spontaneous EEG alpha activity: two-moving dipole approach. <i>Medical and Biological Engineering and Computing</i> , 1992, 30, 324-332. | 1.6 | 28 |
| 134 | Comparison of RF body coils for MRI at 3T: a simulation study using parallel transmission on various anatomical targets. <i>NMR in Biomedicine</i> , 2015, 28, 1332-1344. | 1.6 | 28 |
| 135 | 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. | 2.7 | 28 |
| 136 | Transcranial Focused Ultrasound Neuromodulation of Voluntary Movement-Related Cortical Activity in Humans. <i>IEEE Transactions on Biomedical Engineering</i> , 2021, 68, 1923-1931. | 2.5 | 28 |
| 137 | Benefits of deep learning classification of continuous noninvasive brain-computer interface control. <i>Journal of Neural Engineering</i> , 2021, 18, 046082. | 1.8 | 28 |
| 138 | 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, 535-540. | 0.8 | 27 |
| 139 | Dynamic imaging of seizure activity in pediatric epilepsy patients. <i>Clinical Neurophysiology</i> , 2012, 123, 2122-2129. | 0.7 | 27 |
| 140 | Effects of Soft Drinks on Resting State EEG and Brain-Computer Interface Performance. <i>IEEE Access</i> , 2017, 5, 18756-18764. | 2.6 | 27 |
| 141 | Frequency of alpha oscillation predicts individual differences in perceptual stability during binocular rivalry. <i>Human Brain Mapping</i> , 2019, 40, 2422-2433. | 1.9 | 27 |
| 142 | Functional cortical source imaging from simultaneously recorded ERP and fMRI. <i>Journal of Neuroscience Methods</i> , 2006, 157, 118-123. | 1.3 | 26 |
| 143 | Neurons that detect interocular conflict during binocular rivalry revealed with EEG. <i>Journal of Vision</i> , 2016, 16, 18. | 0.1 | 25 |
| 144 | Sensorimotor Rhythm BCI with Simultaneous High Definition-Transcranial Direct Current Stimulation Alters Task Performance. <i>Brain Stimulation</i> , 2016, 9, 834-841. | 0.7 | 25 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 145 | EEG-fMRI reciprocal functional neuroimaging. <i>Clinical Neurophysiology</i> , 2010, 121, 1240-1250. | 0.7 | 24 |
| 146 | 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. | 1.4 | 24 |
| 147 | Noninvasive cardiac activation imaging of ventricular arrhythmias during drug-induced QT prolongation in the rabbit heart. <i>Heart Rhythm</i> , 2013, 10, 1509-1515. | 0.3 | 23 |
| 148 | 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. | 0.7 | 23 |
| 149 | Multiple Oscillatory Push-Pull Antagonisms Constrain Seizure Propagation. <i>Annals of Neurology</i> , 2019, 86, 683-694. | 2.8 | 23 |
| 150 | Graph theory analysis reveals how sickle cell disease impacts neural networks of patients with more severe disease. <i>NeuroImage: Clinical</i> , 2019, 21, 101599. | 1.4 | 23 |
| 151 | Transcranial Focused Ultrasound Enhances Sensory Discrimination Capability through Somatosensory Cortical Excitation. <i>Ultrasound in Medicine and Biology</i> , 2021, 47, 1356-1366. | 0.7 | 23 |
| 152 | Electrophysiological Neuroimaging. , 2005, , 221-261. | | 22 |
| 153 | Noninvasive cortical imaging of epileptiform activities from interictal spikes in pediatric patients. <i>NeuroImage</i> , 2011, 54, 244-252. | 2.1 | 22 |
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