

Chang-Hwan Im

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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.

194
papers

3,388
citations

32
h-index

48
g-index

218
ext. papers

4,277
ext. citations

3.3
avg, IF

5.67
L-index

#	Paper	IF	Citations
194	Development of an SSVEP-based BCI spelling system adopting a QWERTY-style LED keyboard. <i>Journal of Neuroscience Methods</i> , 2012 , 208, 59-65	3	172
193	EEG-Based Brain-Computer Interfaces: A Thorough Literature Survey. <i>International Journal of Human-Computer Interaction</i> , 2013 , 29, 814-826	3.6	130
192	Multimodal function optimization based on particle swarm optimization. <i>IEEE Transactions on Magnetics</i> , 2006 , 42, 1095-1098	2	119
191	Inconsistent outcomes of transcranial direct current stimulation may originate from anatomical differences among individuals: electric field simulation using individual MRI data. <i>Neuroscience Letters</i> , 2014 , 564, 6-10	3.3	112
190	Classification of selective attention to auditory stimuli: toward vision-free brain-computer interfacing. <i>Journal of Neuroscience Methods</i> , 2011 , 197, 180-5	3	79
189	COMETS: A MATLAB toolbox for simulating local electric fields generated by transcranial direct current stimulation (tDCS). <i>Biomedical Engineering Letters</i> , 2013 , 3, 39-46	3.6	73
188	Hybrid genetic algorithm for electromagnetic topology optimization. <i>IEEE Transactions on Magnetics</i> , 2003 , 39, 2163-2169	2	70
187	Evaluation of various mental task combinations for near-infrared spectroscopy-based brain-computer interfaces. <i>Journal of Biomedical Optics</i> , 2014 , 19, 77005	3.5	68
186	Determination of optimal electrode positions for transcranial direct current stimulation (tDCS). <i>Physics in Medicine and Biology</i> , 2008 , 53, N219-25	3.8	68
185	Evaluation of local electric fields generated by transcranial direct current stimulation with an extracephalic reference electrode based on realistic 3D body modeling. <i>Physics in Medicine and Biology</i> , 2012 , 57, 2137-50	3.8	63
184	Decreased EEG synchronization and its correlation with symptom severity in Alzheimer's disease. <i>Neuroscience Research</i> , 2008 , 62, 112-7	2.9	60
183	A new dual-frequency stimulation method to increase the number of visual stimuli for multi-class SSVEP-based brain-computer interface (BCI). <i>Brain Research</i> , 2013 , 1515, 66-77	3.7	57
182	Machine-learning-based diagnosis of schizophrenia using combined sensor-level and source-level EEG features. <i>Schizophrenia Research</i> , 2016 , 176, 314-319	3.6	56
181	Magnetic field analysis of 2-D permanent magnet array for planar motor. <i>IEEE Transactions on Magnetics</i> , 2001 , 37, 3762-3766	2	53
180	Disruptions in small-world cortical functional connectivity network during an auditory oddball paradigm task in patients with schizophrenia. <i>Schizophrenia Research</i> , 2014 , 156, 197-203	3.6	47
179	Real-Time "Eye-Writing" Recognition Using Electrooculogram. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2017 , 25, 37-48	4.8	44
178	Detection of eye blink artifacts from single prefrontal channel electroencephalogram. <i>Computer Methods and Programs in Biomedicine</i> , 2016 , 124, 19-30	6.9	44

177	Development of a hybrid mental spelling system combining SSVEP-based brain-computer interface and webcam-based eye tracking. <i>Biomedical Signal Processing and Control</i> , 2015 , 21, 99-104	4.9	43
176	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
175	COMETS2: An advanced MATLAB toolbox for the numerical analysis of electric fields generated by transcranial direct current stimulation. <i>Journal of Neuroscience Methods</i> , 2017 , 277, 56-62	3	40
174	A Ternary Hybrid EEG-NIRS Brain-Computer Interface for the Classification of Brain Activation Patterns during Mental Arithmetic, Motor Imagery, and Idle State. <i>Frontiers in Neuroinformatics</i> , 2018 , 12, 5	3.9	39
173	Changes in network connectivity during motor imagery and execution. <i>PLoS ONE</i> , 2018 , 13, e0190715	3.7	39
172	An Improved Particle Swarm Optimization Algorithm Mimicking Territorial Dispute Between Groups for Multimodal Function Optimization Problems. <i>IEEE Transactions on Magnetics</i> , 2008 , 44, 1046-1049	3.7	38
171	fNIRS Evidence for Recognizably Different Positive Emotions. <i>Frontiers in Human Neuroscience</i> , 2019 , 13, 120	3.3	37
170	Classification of binary intentions for individuals with impaired oculomotor function: 'eyes-closed' SSVEP-based brain-computer interface (BCI). <i>Journal of Neural Engineering</i> , 2013 , 10, 026021	5	37
169	Clinical implications of quantitative electroencephalography and current source density in patients with Alzheimer's disease. <i>Brain Topography</i> , 2012 , 25, 461-74	4.3	36
168	Evaluation of feature extraction methods for EEG-based brain-computer interfaces in terms of robustness to slight changes in electrode locations. <i>Medical and Biological Engineering and Computing</i> , 2013 , 51, 571-9	3.1	35
167	Performance enhancement of a brain-computer interface using high-density multi-distance NIRS. <i>Scientific Reports</i> , 2017 , 7, 16545	4.9	35
166	Reduced source activity of event-related potentials for affective facial pictures in schizophrenia patients. <i>Schizophrenia Research</i> , 2012 , 136, 150-9	3.6	34
165	The loudness dependence of the auditory evoked potential (LDAEP) as a predictor of the response to escitalopram in patients with generalized anxiety disorder. <i>Psychopharmacology</i> , 2011 , 213, 625-32	4.7	34
164	Altered cortical functional network in major depressive disorder: A resting-state electroencephalogram study. <i>NeuroImage: Clinical</i> , 2018 , 19, 1000-1007	5.3	32
163	Global synchronization index as a biological correlate of cognitive decline in Alzheimer's disease. <i>Neuroscience Research</i> , 2010 , 66, 333-9	2.9	32
162	Electroencephalography-based endogenous brain-computer interface for online communication with a completely locked-in patient. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2019 , 16, 18	5.3	29
161	Dysfunctional gamma-band activity during face structural processing in schizophrenia patients. <i>Schizophrenia Research</i> , 2010 , 119, 191-7	3.6	29
160	A novel algorithm for multimodal function optimization based on evolution strategy. <i>IEEE Transactions on Magnetics</i> , 2004 , 40, 1224-1227	2	29

159	Toward more intuitive brain-computer interfacing: classification of binary covert intentions using functional near-infrared spectroscopy. <i>Journal of Biomedical Optics</i> , 2016 , 21, 091303	3.5	29
158	Localization of ictal onset zones in Lennox-Gastaut syndrome using directional connectivity analysis of intracranial electroencephalography. <i>Seizure: the Journal of the British Epilepsy Association</i> , 2011 , 20, 449-57	3.2	28
157	fMRI-constrained MEG source imaging and consideration of fMRI invisible sources. <i>Human Brain Mapping</i> , 2005 , 26, 110-8	5.9	27
156	An unsupervised eye blink artifact detection method for real-time electroencephalogram processing. <i>Physiological Measurement</i> , 2016 , 37, 401-17	2.9	27
155	A Novel Array-Type Transcranial Direct Current Stimulation (tDCS) System for Accurate Focusing on Targeted Brain Areas. <i>IEEE Transactions on Magnetism</i> , 2011 , 47, 882-885	2	26
154	Clinical feasibility of brain-computer interface based on steady-state visual evoked potential in patients with locked-in syndrome: Case studies. <i>Psychophysiology</i> , 2017 , 54, 444-451	4.1	25
153	Estimation of directional coupling between cortical areas using Near-Infrared Spectroscopy (NIRS). <i>Optics Express</i> , 2010 , 18, 5730-9	3.3	25
152	Auditory evoked potential could reflect emotional sensitivity and impulsivity. <i>Scientific Reports</i> , 2016 , 6, 37683	4.9	25
151	Brain Networks Responsible for Sense of Agency: An EEG Study. <i>PLoS ONE</i> , 2015 , 10, e0135261	3.7	23
150	Early visual processing deficits in patients with schizophrenia during spatial frequency-dependent facial affect processing. <i>Schizophrenia Research</i> , 2015 , 161, 314-21	3.6	23
149	An electrofusion chip with a cell delivery system driven by surface tension. <i>Journal of Micromechanics and Microengineering</i> , 2009 , 19, 015004	2	23
148	Functional cortical source imaging from simultaneously recorded ERP and fMRI. <i>Journal of Neuroscience Methods</i> , 2006 , 157, 118-23	3	23
147	Assessment criteria for MEG/EEG cortical patch tests. <i>Physics in Medicine and Biology</i> , 2003 , 48, 2561-73	3.8	23
146	Development of an electrooculogram-based eye-computer interface for communication of individuals with amyotrophic lateral sclerosis. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2017 , 14, 89	5.3	22
145	An emergency call system for patients in locked-in state using an SSVEP-based brain switch. <i>Psychophysiology</i> , 2017 , 54, 1632-1643	4.1	22
144	Source activation of P300 correlates with negative symptom severity in patients with schizophrenia. <i>Brain Topography</i> , 2014 , 27, 307-17	4.3	22
143	Source imaging of P300 auditory evoked potentials and clinical correlations in patients with posttraumatic stress disorder. <i>Progress in Neuro-Psychopharmacology and Biological Psychiatry</i> , 2011 , 35, 1908-17	5.5	22
142	Spatiotemporospectral characteristics of scalp ictal EEG in mesial temporal lobe epilepsy with hippocampal sclerosis. <i>Brain Research</i> , 2009 , 1287, 206-19	3.7	22

141	Hemodynamic responses in rat brain during transcranial direct current stimulation: a functional near-infrared spectroscopy study. <i>Biomedical Optics Express</i> , 2014 , 5, 1812-21	3.5	21
140	The influence of an educational course on language expression and treatment of gaming addiction for massive multiplayer online role-playing game (MMORPG) players. <i>Computers and Education</i> , 2013 , 63, 208-217	9.5	21
139	Evaluation of algorithms for intracranial EEG (iEEG) source imaging of extended sources: feasibility of using iEEG source imaging for localizing epileptogenic zones in secondary generalized epilepsy. <i>Brain Topography</i> , 2011 , 24, 91-104	4.3	21
138	Disrupted cortical brain network in post-traumatic stress disorder patients: a resting-state electroencephalographic study. <i>Translational Psychiatry</i> , 2017 , 7, e1231	8.6	19
137	Source localization of periodic sharp wave complexes using independent component analysis in sporadic Creutzfeldt-Jakob disease. <i>Brain Research</i> , 2007 , 1143, 228-37	3.7	19
136	Transcranial direct current stimulation on primary sensorimotor area has no effect in patients with drug-naïve restless legs syndrome: a proof-of-concept clinical trial. <i>Sleep Medicine</i> , 2015 , 16, 280-7	4.6	17
135	Increased Corticomuscular Coherence in Idiopathic REM Sleep Behavior Disorder. <i>Frontiers in Neurology</i> , 2012 , 3, 60	4.1	17
134	Toward a compact hybrid brain-computer interface (BCI): Performance evaluation of multi-class hybrid EEG-fNIRS BCIs with limited number of channels. <i>PLoS ONE</i> , 2020 , 15, e0230491	3.7	16
133	Ternary Near-Infrared Spectroscopy Brain-Computer Interface With Increased Information Transfer Rate Using Prefrontal Hemodynamic Changes During Mental Arithmetic, Breath-Holding, and Idle State. <i>IEEE Access</i> , 2018 , 6, 19491-19498	3.5	16
132	Enhanced Template Matching Using Dynamic Positional Warping for Identification of Specific Patterns in Electroencephalogram. <i>Journal of Applied Mathematics</i> , 2014 , 2014, 1-7	1.1	16
131	Causal influence of epileptic network during spike-and-wave discharge in juvenile myoclonic epilepsy. <i>Epilepsy Research</i> , 2014 , 108, 257-66	3	16
130	An image-guided transcranial direct current stimulation system: a pilot phantom study. <i>Physiological Measurement</i> , 2013 , 34, 937-50	2.9	16
129	An EEG-based real-time cortical rhythmic activity monitoring system. <i>Physiological Measurement</i> , 2007 , 28, 1101-13	2.9	16
128	Correlation between Inter-Blink Interval and Episodic Encoding during Movie Watching. <i>PLoS ONE</i> , 2015 , 10, e0141242	3.7	16
127	Abnormal cortical neural synchrony during working memory in schizophrenia. <i>Clinical Neurophysiology</i> , 2018 , 129, 210-221	4.3	16
126	Cortical volume and 40-Hz auditory-steady-state responses in patients with schizophrenia and healthy controls. <i>NeuroImage: Clinical</i> , 2019 , 22, 101732	5.3	15
125	Positive and negative symptom scores are correlated with activation in different brain regions during facial emotion perception in schizophrenia patients: a voxel-based sLORETA source activity study. <i>Schizophrenia Research</i> , 2013 , 151, 165-74	3.6	15
124	Mismatch Negativity and Cortical Thickness in Patients With Schizophrenia and Bipolar Disorder. <i>Schizophrenia Bulletin</i> , 2019 , 45, 425-435	1.3	15

123	Fast and Robust Real-Time Estimation of Respiratory Rate from Photoplethysmography. <i>Sensors</i> , 2016 , 16,	3.8	14
122	Development of an Online Home Appliance Control System Using Augmented Reality and an SSVEP-Based Brain-Computer Interface. <i>IEEE Access</i> , 2019 , 7, 163604-163614	3.5	14
121	Brain Areas Responsible for Vigilance: An EEG Source Imaging Study. <i>Brain Topography</i> , 2017 , 30, 343-354.	4.3	13
120	Machine-learning-based classification between post-traumatic stress disorder and major depressive disorder using P300 features. <i>NeuroImage: Clinical</i> , 2019 , 24, 102001	5.3	13
119	Auditory brain-computer interfaces (BCIs) and their practical applications. <i>Biomedical Engineering Letters</i> , 2012 , 2, 13-17	3.6	13
118	Performance Prediction for a Near-Infrared Spectroscopy-Brain-Computer Interface Using Resting-State Functional Connectivity of the Prefrontal Cortex. <i>International Journal of Neural Systems</i> , 2018 , 28, 1850023	6.2	13
117	Dysfunctional frontal lobe activity during inhibitory tasks in individuals with childhood trauma: An event-related potential study. <i>NeuroImage: Clinical</i> , 2018 , 17, 935-942	5.3	12
116	Assessment of user voluntary engagement during neurorehabilitation using functional near-infrared spectroscopy: a preliminary study. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2018 , 15, 27	5.3	12
115	Individually customized transcranial temporal interference stimulation for focused modulation of deep brain structures: a simulation study with different head models. <i>Scientific Reports</i> , 2020 , 10, 11730	4.9	12
114	Altered Network Characteristics of Spike-Wave Discharges in Juvenile Myoclonic Epilepsy. <i>Clinical EEG and Neuroscience</i> , 2017 , 48, 111-117	2.3	11
113	Detection of Craving for Gaming in Adolescents with Internet Gaming Disorder Using Multimodal Biosignals. <i>Sensors</i> , 2018 , 18,	3.8	11
112	Combined use of multiple computational intracranial EEG analysis techniques for the localization of epileptogenic zones in Lennox-Gastaut syndrome. <i>Clinical EEG and Neuroscience</i> , 2014 , 45, 169-78	2.3	11
111	Depth-dependent cerebral hemodynamic responses following direct cortical electrical stimulation (DCES) revealed by in vivo dual-optical imaging techniques. <i>Optics Express</i> , 2012 , 20, 6932-43	3.3	11
110	What is the optimal anodal electrode position for inducing corticomotor excitability changes in transcranial direct current stimulation?. <i>Neuroscience Letters</i> , 2015 , 584, 347-50	3.3	10
109	. <i>IEEE Access</i> , 2020 , 8, 62065-62075	3.5	10
108	Novel technique for current density distribution analysis of solidly modeled coil. <i>IEEE Transactions on Magnetics</i> , 2002 , 38, 505-508	2	10
107	Design of Wearable EEG Devices Specialized for Passive Brain-Computer Interface Applications. <i>Sensors</i> , 2020 , 20,	3.8	10
106	Removing the Interdependency between Horizontal and Vertical Eye-Movement Components in Electrooculograms. <i>Sensors</i> , 2016 , 16, 227	3.8	10

105	Motor imagery learning across a sequence of trials in stroke patients. <i>Restorative Neurology and Neuroscience</i> , 2015 , 34, 635-45	2.8	10
104	Localization of ictal onset zones in Lennox-Gastaut syndrome (LGS) based on information theoretical time delay analysis of intracranial electroencephalography (iEEG). <i>Epilepsy Research</i> , 2012 , 99, 78-86	3	9
103	Efficient technique for 3-D finite element analysis of skin effect in current-carrying conductors. <i>IEEE Transactions on Magnetics</i> , 2004 , 40, 1326-1329	2	9
102	Data-Driven User Feedback: An Improved Neurofeedback Strategy considering the Interindividual Variability of EEG Features. <i>BioMed Research International</i> , 2016 , 2016, 3939815	3	9
101	Latent awareness: Early conscious access to motor preparation processes is linked to the readiness potential. <i>NeuroImage</i> , 2019 , 202, 116140	7.9	8
100	Localization of epileptogenic zones in Lennox-Gastaut syndrome (LGS) using graph theoretical analysis of ictal intracranial EEG: a preliminary investigation. <i>Brain and Development</i> , 2015 , 37, 29-36	2.2	8
99	Performance Improvement of Near-Infrared Spectroscopy-Based Brain-Computer Interface Using Regularized Linear Discriminant Analysis Ensemble Classifier Based on Bootstrap Aggregating. <i>Frontiers in Neuroscience</i> , 2020 , 14, 168	5.1	8
98	Disruption of the Posterior Medial Network during the Acute Stage of Transient Global Amnesia: A Preliminary Study. <i>Clinical EEG and Neuroscience</i> , 2016 , 47, 69-74	2.3	8
97	Altered cortical functional network during behavioral inhibition in individuals with childhood trauma. <i>Scientific Reports</i> , 2018 , 8, 10123	4.9	8
96	Classification of visual stimuli with different spatial patterns for single-frequency, multi-class SSVEP BCI. <i>Electronics Letters</i> , 2013 , 49, 1374-1376	1.1	8
95	Reduced Frontal P3a Amplitude in Migraine Patients during the Pain-Free Period. <i>Journal of Clinical Neurology (Korea)</i> , 2013 , 9, 43-50	1.7	8
94	An EEG-based real-time cortical functional connectivity imaging system. <i>Medical and Biological Engineering and Computing</i> , 2011 , 49, 985-95	3.1	8
93	Point Collocation Mesh-Free Method Using FMLSRKM for Solving Axisymmetric Laplace Equation. <i>IEEE Transactions on Magnetics</i> , 2008 , 44, 1234-1237	2	8
92	Precise Estimation of Brain Electrical Sources Using Anatomically Constrained Area Source (ACAS) Localization. <i>IEEE Transactions on Magnetics</i> , 2007 , 43, 1713-1716	2	8
91	Optimal design of gas circuit breaker for increasing the small current interruption capacity. <i>IEEE Transactions on Magnetics</i> , 2003 , 39, 1749-1752	2	8
90	Anatomically constrained dipole adjustment (ANACONDA) for accurate MEG/EEG focal source localizations. <i>Physics in Medicine and Biology</i> , 2005 , 50, 4931-53	3.8	8
89	Altered Cortical Thickness-Based Individualized Structural Covariance Networks in Patients with Schizophrenia and Bipolar Disorder. <i>Journal of Clinical Medicine</i> , 2020 , 9,	5.1	7
88	Development of a Brain-Computer Interface Toggle Switch with Low False-Positive Rate Using Respiration-Modulated Photoplethysmography. <i>Sensors</i> , 2020 , 20,	3.8	7

87	A technique to consider mismatches between fMRI and EEG/MEG sources for fMRI-constrained EEG/MEG source imaging: a preliminary simulation study. <i>Physics in Medicine and Biology</i> , 2006 , 51, 6005-6021	3.8	7
86	Magnetoencephalography cortical source imaging using spherical mapping. <i>IEEE Transactions on Magnetics</i> , 2005 , 41, 1984-1987	2	7
85	On the Feasibility of Using an Ear-EEG to Develop an Endogenous Brain-Computer Interface. <i>Sensors</i> , 2018 , 18,	3.8	7
84	Riemannian classifier enhances the accuracy of machine-learning-based diagnosis of PTSD using resting EEG. <i>Progress in Neuro-Psychopharmacology and Biological Psychiatry</i> , 2020 , 102, 109960	5.5	6
83	Development of an Online Home Appliance Control System Using Augmented Reality and an SSVEP-Based Brain-Computer Interface 2020 ,		6
82	Comparison of Visual Stimuli for Steady-State Visual Evoked Potential-Based Brain-Computer Interfaces in Virtual Reality Environment in terms of Classification Accuracy and Visual Comfort. <i>Computational Intelligence and Neuroscience</i> , 2019 , 2019, 9680697	3	6
81	Global Electroencephalography Synchronization as a New Indicator for Tracking Emotional Changes of a Group of Individuals during Video Watching. <i>Frontiers in Human Neuroscience</i> , 2017 , 11, 577	3.3	6
80	Localization of epileptogenic zones in Lennox-Gastaut syndrome using frequency domain source imaging of intracranial electroencephalography: a preliminary investigation. <i>Physiological Measurement</i> , 2013 , 34, 247-63	2.9	6
79	Quantitative model for the change of optical resonance in neural activity detection systems based on surface plasmon resonance. <i>Optics and Laser Technology</i> , 2011 , 43, 938-948	4.2	6
78	Analysis of a nanopositioning actuator using numerical and analytic methods. <i>Smart Materials and Structures</i> , 2008 , 17, 025025	3.4	6
77	Altered Cortical Functional Networks in Patients With Schizophrenia and Bipolar Disorder: A Resting-State Electroencephalographic Study. <i>Frontiers in Psychiatry</i> , 2020 , 11, 661	5	6
76	A Hybrid Brain-Computer Interface for Real-Life Meal-Assist Robot Control. <i>Sensors</i> , 2021 , 21,	3.8	6
75	Estimating Consumers' Subjective Preference Using Functional near Infrared Spectroscopy: A Feasibility Study. <i>Journal of Near Infrared Spectroscopy</i> , 2016 , 24, 433-441	1.5	6
74	Influence of spatial frequency and emotion expression on face processing in patients with panic disorder. <i>Journal of Affective Disorders</i> , 2016 , 197, 159-66	6.6	5
73	Electrophysiological correlates of object-repetition effects: sLORETA imaging with 64-channel EEG and individual MRI. <i>BMC Neuroscience</i> , 2012 , 13, 124	3.2	5
72	An improved technique to consider mismatches between fMRI and EEG/MEG sources for fMRI constrained EEG/MEG source imaging. <i>Biomedical Engineering Letters</i> , 2011 , 1, 32-41	3.6	5
71	Soldering-based easy packaging of thin polyimide multichannel electrodes for neuro-signal recording. <i>Journal of Micromechanics and Microengineering</i> , 2012 , 22, 115017	2	5
70	Magnetoencephalography source localization using improved simplex method. <i>Inverse Problems in Science and Engineering</i> , 2008 , 16, 499-510	1.3	5

69	Dealing with mismatched fMRI activations in fMRI constrained EEG cortical source imaging: a simulation study assuming various mismatch types. <i>Medical and Biological Engineering and Computing</i> , 2007 , 45, 79-90	3.1	5
68	Transient Global Amnesia Deteriorates the Network Efficiency of the Theta Band. <i>PLoS ONE</i> , 2016 , 11, e0164884	3.7	5
67	EEG-based neurocinematics: challenges and prospects. <i>Brain-Computer Interfaces</i> , 2015 , 2, 186-192	2	4
66	Techniques for Efficient Computation of Electric Fields Generated by Transcranial Direct-Current Stimulation. <i>IEEE Transactions on Magnetics</i> , 2018 , 54, 1-5	2	4
65	EEG Spectral Analysis 2018 , 35-53		4
64	Machine-Learning-Based Detection of Craving for Gaming Using Multimodal Physiological Signals: Validation of Test-Retest Reliability for Practical Use. <i>Sensors</i> , 2019 , 19,	3.8	4
63	Implementation of a mental spelling system based on steady-state visual evoked potential (SSVEP) 2013 ,		4
62	Estimation of Solution Accuracy From Leadfield Matrix in Magnetoencephalography. <i>IEEE Transactions on Magnetics</i> , 2007 , 43, 1701-1704	2	4
61	Dysfunctional Patterns of Gamma-Band Activity in Response to Human Faces Compared to Non-Facial Stimuli in Patients with Schizophrenia. <i>Psychiatry Investigation</i> , 2016 , 13, 349-59	3.1	4
60	Subject-Independent Functional Near-Infrared Spectroscopy-Based Brain-Computer Interfaces Based on Convolutional Neural Networks. <i>Frontiers in Human Neuroscience</i> , 2021 , 15, 646915	3.3	4
59	Automatic Identification of Interictal Epileptiform Discharges in Secondary Generalized Epilepsy. <i>Computational and Mathematical Methods in Medicine</i> , 2016 , 2016, 8701973	2.8	4
58	Development of an electrooculogram-based human-computer interface using involuntary eye movement by spatially rotating sound for communication of locked-in patients. <i>Scientific Reports</i> , 2018 , 8, 9505	4.9	4
57	Prediction of Individual User's Dynamic Ranges of EEG Features from Resting-State EEG Data for Evaluating Their Suitability for Passive Brain-Computer Interface Applications. <i>Sensors</i> , 2020 , 20,	3.8	3
56	Source activation during facial emotion perception correlates with positive and negative symptoms scores of schizophrenia. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2013 , 2013, 1437-1440	0.9	3
55	Inconsistent outcomes of transcranial direct current stimulation (tDCS) may be originated from the anatomical differences among individuals: a simulation study using individual MRI data. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2013 , 2013, 823-5	0.9	3
54	A new multimodal cortical source imaging algorithm for integrating simultaneously recorded EEG and MEG. <i>Inverse Problems in Science and Engineering</i> , 2013 , 21, 1074-1089	1.3	3
53	Numerical computation of inductance of complex coil systems. <i>International Journal of Applied Electromagnetics and Mechanics</i> , 2009 , 29, 15-23	0.4	3
52	Reconstruction of Continuous and Focalized Brain Functional Source Images From Electroencephalography. <i>IEEE Transactions on Magnetics</i> , 2007 , 43, 1709-1712	2	3

51	Fast and robust localization of brain electrical sources using evolution strategies: Monte-carlo simulation and phantom experiment studies. <i>International Journal of Applied Electromagnetics and Mechanics</i> , 2004 , 20, 197-203	0.4	3
50	Novel multidipole searching technique for magnetoencephalography source localization. <i>IEEE Transactions on Magnetics</i> , 2004 , 40, 627-630	2	3
49	Optimization of the coil shape in deflection yoke considering practical coil winding processes. <i>IEEE Transactions on Magnetics</i> , 2002 , 38, 1077-1080	2	3
48	Multi-channel transorbital electrical stimulation for effective stimulation of posterior retina. <i>Scientific Reports</i> , 2021 , 11, 9745	4.9	3
47	Integrative Evaluation of Automated Massage Combined with Thermotherapy: Physical, Physiological, and Psychological Viewpoints. <i>BioMed Research International</i> , 2016 , 2016, 2826905	3	3
46	Classification of Different Cognitive Load using Electroencephalogram(EEG): Preliminary Study 2018 ,		3
45	Prediction Method of Walking Speed at Swing Phase using Soleus Electromyogram Signal at Previous Stance Phase. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2018 , 2018, 2308-2311	0.9	3
44	Novel Hybrid Brain-Computer Interface for Virtual Reality Applications Using Steady-State Visual-Evoked Potential-Based Brain-Computer Interface and Electrooculogram-Based Eye Tracking for Increased Information Transfer Rate.. <i>Frontiers in Neuroinformatics</i> , 2022 , 16, 758537	3.9	3
43	Comparison of magnetic field distributions generated by various permanent magnets for transcranial static magnetic stimulation: A simulation study. <i>Computers in Biology and Medicine</i> , 2019 , 114, 103476	7	2
42	Development of a hybrid mental speller combining EEG-based brain-computer interface and webcam-based eye-tracking. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2013 , 2013, 2240-2	0.9	2
41	Eye-closed SSVEP-based BCI for binary communication of individuals with impaired oculomotor function 2013 ,		2
40	Mathematical Issues in the Inference of Causal Interactions among Multichannel Neural Signals. <i>Journal of Applied Mathematics</i> , 2012 , 2012, 1-14	1.1	2
39	Estimation of Brain Electrical Sources Using Multilevel Source Space Model. <i>IEEE Transactions on Magnetics</i> , 2007 , 43, 1697-1700	2	2
38	Enhancing accuracy in magneto- and electroencephalography focal source localization. <i>IEEE Transactions on Magnetics</i> , 2006 , 42, 1387-1390	2	2
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