Chang-Hwan Im

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Development of an SSVEP-based BCI spelling system adopting a QWERTY-style LED keyboard. Journal of Neuroscience Methods, 2012, 208, 59-65.	2.5	225
2	EEG-Based Brain-Computer Interfaces: A Thorough Literature Survey. International Journal of Human-Computer Interaction, 2013, 29, 814-826.	4.8	193
3	Multimodal function optimization based on particle swarm optimization. IEEE Transactions on Magnetics, 2006, 42, 1095-1098.	2.1	169
4	Inconsistent outcomes of transcranial direct current stimulation may originate from anatomical differences among individuals: Electric field simulation using individual MRI data. Neuroscience Letters, 2014, 564, 6-10.	2.1	149
5	Machine-learning-based diagnosis of schizophrenia using combined sensor-level and source-level EEG features. Schizophrenia Research, 2016, 176, 314-319.	2.0	120
6	Classification of selective attention to auditory stimuli: Toward vision-free brain–computer interfacing. Journal of Neuroscience Methods, 2011, 197, 180-185.	2.5	106
7	Hybrid genetic algorithm for electromagnetic topology optimization. IEEE Transactions on Magnetics, 2003, 39, 2163-2169.	2.1	101
8	A new dual-frequency stimulation method to increase the number of visual stimuli for multi-class SSVEP-based brain–computer interface (BCI). Brain Research, 2013, 1515, 66-77.	2.2	89
9	COMETS: A MATLAB toolbox for simulating local electric fields generated by transcranial direct current stimulation (tDCS). Biomedical Engineering Letters, 2013, 3, 39-46.	4.1	86
10	Evaluation of local electric fields generated by transcranial direct current stimulation with an extracephalic reference electrode based on realistic 3D body modeling. Physics in Medicine and Biology, 2012, 57, 2137-2150.	3.0	85
11	Evaluation of various mental task combinations for near-infrared spectroscopy-based brain-computer interfaces. Journal of Biomedical Optics, 2014, 19, 077005.	2.6	85
12	fNIRS Evidence for Recognizably Different Positive Emotions. Frontiers in Human Neuroscience, 2019, 13, 120.	2.0	83
13	Determination of optimal electrode positions for transcranial direct current stimulation (tDCS). Physics in Medicine and Biology, 2008, 53, N219-N225.	3.0	79
14	Magnetic field analysis of 2-D permanent magnet array for planar motor. IEEE Transactions on Magnetics, 2001, 37, 3762-3766.	2.1	72
15	Changes in network connectivity during motor imagery and execution. PLoS ONE, 2018, 13, e0190715.	2.5	71
16	Decreased EEG synchronization and its correlation with symptom severity in Alzheimer's disease. Neuroscience Research, 2008, 62, 112-117.	1.9	70
17	A Ternary Hybrid EEG-NIRS Brain-Computer Interface for the Classification of Brain Activation Patterns during Mental Arithmetic, Motor Imagery, and Idle State. Frontiers in Neuroinformatics, 2018, 12, 5.	2.5	70
18	Disruptions in small-world cortical functional connectivity network during an auditory oddball paradigm task in patients with schizophrenia. Schizophrenia Research, 2014, 156, 197-203.	2.0	62

#	Article	IF	CITATIONS
19	COMETS2: An advanced MATLAB toolbox for the numerical analysis of electric fields generated by transcranial direct current stimulation. Journal of Neuroscience Methods, 2017, 277, 56-62.	2.5	62
20	Altered cortical functional network in major depressive disorder: A resting-state electroencephalogram study. NeuroImage: Clinical, 2018, 19, 1000-1007.	2.7	61
21	Real-Time "Eye-Writing―Recognition Using Electrooculogram. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2017, 25, 37-48.	4.9	60
22	Detection of eye blink artifacts from single prefrontal channel electroencephalogram. Computer Methods and Programs in Biomedicine, 2016, 124, 19-30.	4.7	59
23	Development of a hybrid mental spelling system combining SSVEP-based brain–computer interface and webcam-based eye tracking. Biomedical Signal Processing and Control, 2015, 21, 99-104.	5.7	54
24	Performance enhancement of a brain-computer interface using high-density multi-distance NIRS. Scientific Reports, 2017, 7, 16545.	3.3	54
25	An Improved Particle Swarm Optimization Algorithm Mimicking Territorial Dispute Between Groups for Multimodal Function Optimization Problems. IEEE Transactions on Magnetics, 2008, 44, 1046-1049.	2.1	50
26	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.	2.5	48
27	Toward more intuitive brain–computer interfacing: classification of binary covert intentions using functional near-infrared spectroscopy. Journal of Biomedical Optics, 2016, 21, 091303.	2.6	48
28	Electroencephalography-based endogenous brain–computer interface for online communication with a completely locked-in patient. Journal of NeuroEngineering and Rehabilitation, 2019, 16, 18.	4.6	47
29	Clinical Implications of Quantitative Electroencephalography and Current Source Density in Patients with Alzheimer's Disease. Brain Topography, 2012, 25, 461-474.	1.8	45
30	Classification of binary intentions for individuals with impaired oculomotor function: â€~eyes-closed' SSVEP-based brain–computer interface (BCI). Journal of Neural Engineering, 2013, 10, 026021.	3.5	45
31	Evaluation of feature extraction methods for EEG-based brain–computer interfaces in terms of robustness to slight changes in electrode locations. Medical and Biological Engineering and Computing, 2013, 51, 571-579.	2.8	42
32	Individually customized transcranial temporal interference stimulation for focused modulation of deep brain structures: a simulation study with different head models. Scientific Reports, 2020, 10, 11730.	3.3	41
33	The loudness dependence of the auditory evoked potential (LDAEP) as a predictor of the response to escitalopram in patients with generalized anxiety disorder. Psychopharmacology, 2011, 213, 625-632.	3.1	40
34	Development of an Online Home Appliance Control System Using Augmented Reality and an SSVEP-Based Brain–Computer Interface. IEEE Access, 2019, 7, 163604-163614.	4.2	40
35	A Novel Algorithm for Multimodal Function Optimization Based on Evolution Strategy. IEEE Transactions on Magnetics, 2004, 40, 1224-1227.	2.1	39
36	Brain Networks Responsible for Sense of Agency: An EEG Study. PLoS ONE, 2015, 10, e0135261.	2.5	39

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37	Clinical feasibility of brainâ€computer interface based on steadyâ€state visual evoked potential in patients with lockedâ€in syndrome: Case studies. Psychophysiology, 2017, 54, 444-451.	2.4	38
38	Global synchronization index as a biological correlate of cognitive decline in Alzheimer's disease. Neuroscience Research, 2010, 66, 333-339.	1.9	37
39	A Novel Array-Type Transcranial Direct Current Stimulation (tDCS) System for Accurate Focusing on Targeted Brain Areas. IEEE Transactions on Magnetics, 2011, 47, 882-885.	2.1	37
40	Auditory evoked potential could reflect emotional sensitivity and impulsivity. Scientific Reports, 2016, 6, 37683.	3.3	37
41	Reduced source activity of event-related potentials for affective facial pictures in schizophrenia patients. Schizophrenia Research, 2012, 136, 150-159.	2.0	36
42	The influence of an educational course on language expression and treatment of gaming addiction for massive multiplayer online role-playing game (MMORPG) players. Computers and Education, 2013, 63, 208-217.	8.3	36
43	An emergency call system for patients in lockedâ€in state using an SSVEPâ€based brain switch. Psychophysiology, 2017, 54, 1632-1643.	2.4	36
44	Dysfunctional gamma-band activity during face structural processing in schizophrenia patients. Schizophrenia Research, 2010, 119, 191-197.	2.0	33
45	Toward a compact hybrid brain-computer interface (BCI): Performance evaluation of multi-class hybrid EEG-fNIRS BCIs with limited number of channels. PLoS ONE, 2020, 15, e0230491.	2.5	33
46	Localization of ictal onset zones in Lennox-Gastaut syndrome using directional connectivity analysis of intracranial electroencephalography. Seizure: the Journal of the British Epilepsy Association, 2011, 20, 449-457.	2.0	32
47	An unsupervised eye blink artifact detection method for real-time electroencephalogram processing. Physiological Measurement, 2016, 37, 401-417.	2.1	32
48	Causal influence of epileptic network during spike-and-wave discharge in juvenile myoclonic epilepsy. Epilepsy Research, 2014, 108, 257-266.	1.6	30
49	Source Activation of P300 Correlates with Negative Symptom Severity in Patients with Schizophrenia. Brain Topography, 2014, 27, 307-317.	1.8	30
50	fMRI-constrained MEG source imaging and consideration of fMRI invisible sources. Human Brain Mapping, 2005, 26, 110-118.	3.6	29
51	Estimation of directional coupling between cortical areas using Near-Infrared Spectroscopy (NIRS). Optics Express, 2010, 18, 5730.	3.4	29
52	Hemodynamic responses in rat brain during transcranial direct current stimulation: a functional near-infrared spectroscopy study. Biomedical Optics Express, 2014, 5, 1812.	2.9	29
53	Cortical volume and 40-Hz auditory-steady-state responses in patients with schizophrenia and healthy controls. NeuroImage: Clinical, 2019, 22, 101732.	2.7	29
54	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. Brain Topography, 2011, 24, 91-104.	1.8	28

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55	Abnormal cortical neural synchrony during working memory in schizophrenia. Clinical Neurophysiology, 2018, 129, 210-221.	1.5	28
56	Machine-learning-based classification between post-traumatic stress disorder and major depressive disorder using P300 features. Neurolmage: Clinical, 2019, 24, 102001.	2.7	28
5 7	Functional cortical source imaging from simultaneously recorded ERP and fMRI. Journal of Neuroscience Methods, 2006, 157, 118-123.	2.5	26
58	Assessment criteria for MEG/EEG cortical patch tests. Physics in Medicine and Biology, 2003, 48, 2561-2573.	3.0	25
59	An electrofusion chip with a cell delivery system driven by surface tension. Journal of Micromechanics and Microengineering, 2009, 19, 015004.	2.6	25
60	Spatiotemporospectral characteristics of scalp ictal EEG in mesial temporal lobe epilepsy with hippocampal sclerosis. Brain Research, 2009, 1287, 206-219.	2.2	25
61	Early visual processing deficits in patients with schizophrenia during spatial frequency-dependent facial affect processing. Schizophrenia Research, 2015, 161, 314-321.	2.0	25
62	Brain Areas Responsible for Vigilance: An EEG Source Imaging Study. Brain Topography, 2017, 30, 343-351.	1.8	25
63	Disrupted cortical brain network in post-traumatic stress disorder patients: a resting-state electroencephalographic study. Translational Psychiatry, 2017, 7, e1231-e1231.	4.8	25
64	Development of an electrooculogram-based eye-computer interface for communication of individuals with amyotrophic lateral sclerosis. Journal of NeuroEngineering and Rehabilitation, 2017, 14, 89.	4.6	25
65	Dysfunctional frontal lobe activity during inhibitory tasks in individuals with childhood trauma: An event-related potential study. NeuroImage: Clinical, 2018, 17, 935-942.	2.7	25
66	Source imaging of P300 auditory evoked potentials and clinical correlations in patients with posttraumatic stress disorder. Progress in Neuro-Psychopharmacology and Biological Psychiatry, 2011, 35, 1908-1917.	4.8	23
67	Design of Wearable EEG Devices Specialized for Passive Brain–Computer Interface Applications. Sensors, 2020, 20, 4572.	3.8	23
68	Real-Time Recognition of Facial Expressions Using Facial Electromyograms Recorded Around the Eyes for Social Virtual Reality Applications. IEEE Access, 2020, 8, 62065-62075.	4.2	23
69	Correlation between Inter-Blink Interval and Episodic Encoding during Movie Watching. PLoS ONE, 2015, 10, e0141242.	2.5	23
70	Increased Corticomuscular Coherence in Idiopathic REM Sleep Behavior Disorder. Frontiers in Neurology, 2012, 3, 60.	2.4	22
71	Subject-Independent Functional Near-Infrared Spectroscopy-Based Brain–Computer Interfaces Based on Convolutional Neural Networks. Frontiers in Human Neuroscience, 2021, 15, 646915.	2.0	22
72	Source localization of periodic sharp wave complexes using independent component analysis in sporadic Creutzfeldt‑Jakob disease. Brain Research, 2007, 1143, 228-237.	2.2	21

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73	An image-guided transcranial direct current stimulation system: a pilot phantom study. Physiological Measurement, 2013, 34, 937-950.	2.1	21
74	Transcranial direct current stimulation on primary sensorimotor area has no effect in patients with drug-naÃ-ve restless legs syndrome: a proof-of-concept clinical trial. Sleep Medicine, 2015, 16, 280-287.	1.6	21
75	Ternary Near-Infrared Spectroscopy Brain-Computer Interface With Increased Information Transfer Rate Using Prefrontal Hemodynamic Changes During Mental Arithmetic, Breath-Holding, and Idle State. IEEE Access, 2018, 6, 19491-19498.	4.2	21
76	Enhanced Template Matching Using Dynamic Positional Warping for Identification of Specific Patterns in Electroencephalogram. Journal of Applied Mathematics, 2014, 2014, 1-7.	0.9	20
77	Altered Network Characteristics of Spike-Wave Discharges in Juvenile Myoclonic Epilepsy. Clinical EEG and Neuroscience, 2017, 48, 111-117.	1.7	20
78	Detection of Craving for Gaming in Adolescents with Internet Gaming Disorder Using Multimodal Biosignals. Sensors, 2018, 18, 102.	3.8	20
79	Mismatch Negativity and Cortical Thickness in Patients With Schizophrenia and Bipolar Disorder. Schizophrenia Bulletin, 2019, 45, 425-435.	4.3	20
80	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. Schizophrenia Research, 2013, 151, 165-174.	2.0	19
81	Latent awareness: Early conscious access to motor preparation processes is linked to the readiness potential. Neurolmage, 2019, 202, 116140.	4.2	19
82	Auditory brain-computer interfaces (BCIs) and their practical applications. Biomedical Engineering Letters, 2012, 2, 13-17.	4.1	18
83	Fast and Robust Real-Time Estimation of Respiratory Rate from Photoplethysmography. Sensors, 2016, 16, 1494.	3.8	18
84	Motor imagery learning across a sequence ofÂtrials in stroke patients. Restorative Neurology and Neuroscience, 2016, 34, 635-645.	0.7	18
85	An EEG-based real-time cortical rhythmic activity monitoring system. Physiological Measurement, 2007, 28, 1101-1113.	2.1	17
86	Altered Cortical Thickness-Based Individualized Structural Covariance Networks in Patients with Schizophrenia and Bipolar Disorder. Journal of Clinical Medicine, 2020, 9, 1846.	2.4	17
87	Performance enhancement of facial electromyogram-based facial-expression recognition for social virtual reality applications using linear discriminant analysis adaptation. Virtual Reality, 2022, 26, 385-398.	6.1	17
88	Development of an Online Home Appliance Control System Using Augmented Reality and an SSVEP-Based Brain-Computer Interface. , 2020, , .		16
89	Efficient Technique for 3-D Finite Element Analysis of Skin Effect in Current-Carrying Conductors. IEEE Transactions on Magnetics, 2004, 40, 1326-1329.	2.1	15
90	Data-Driven User Feedback: An Improved Neurofeedback Strategy considering the Interindividual Variability of EEG Features. BioMed Research International, 2016, 2016, 1-7.	1.9	15

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91	On the Feasibility of Using an Ear-EEG to Develop an Endogenous Brain-Computer Interface. Sensors, 2018, 18, 2856.	3.8	15
92	Assessment of user voluntary engagement during neurorehabilitation using functional near-infrared spectroscopy: a preliminary study. Journal of NeuroEngineering and Rehabilitation, 2018, 15, 27.	4.6	15
93	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. Computational Intelligence and Neuroscience, 2019, 2019, 1-7.	1.7	15
94	Removing the Interdependency between Horizontal and Vertical Eye-Movement Components in Electrooculograms. Sensors, 2016, 16, 227.	3.8	14
95	Performance Prediction for a Near-Infrared Spectroscopy-Brain–Computer Interface Using Resting-State Functional Connectivity of the Prefrontal Cortex. International Journal of Neural Systems, 2018, 28, 1850023.	5.2	14
96	What is the optimal anodal electrode position for inducing corticomotor excitability changes in transcranial direct current stimulation?. Neuroscience Letters, 2015, 584, 347-350.	2.1	13
97	Altered Cortical Functional Networks in Patients With Schizophrenia and Bipolar Disorder: A Resting-State Electroencephalographic Study. Frontiers in Psychiatry, 2020, 11, 661.	2.6	13
98	Riemannian classifier enhances the accuracy of machine-learning-based diagnosis of PTSD using resting EEG. Progress in Neuro-Psychopharmacology and Biological Psychiatry, 2020, 102, 109960.	4.8	13
99	Performance Improvement of Near-Infrared Spectroscopy-Based Brain-Computer Interface Using Regularized Linear Discriminant Analysis Ensemble Classifier Based on Bootstrap Aggregating. Frontiers in Neuroscience, 2020, 14, 168.	2.8	13
100	Optimal design of gas circuit breaker for increasing the small current interruption capacity. IEEE Transactions on Magnetics, 2003, 39, 1749-1752.	2.1	12
101	Combined Use of Multiple Computational Intracranial EEG Analysis Techniques for the Localization of Epileptogenic Zones in Lennox–Gastaut Syndrome. Clinical EEG and Neuroscience, 2014, 45, 169-178.	1.7	12
102	Comparative analysis of default mode networks in major psychiatric disorders using resting-state EEG. Scientific Reports, 2021, 11, 22007.	3.3	12
103	Multipair transcranial temporal interference stimulation for improved focalized stimulation of deep brain regions: A simulation study. Computers in Biology and Medicine, 2022, 143, 105337.	7.0	12
104	Novel technique for current density distribution analysis of solidly modeled coil. IEEE Transactions on Magnetics, 2002, 38, 505-508.	2.1	11
105	Anatomically constrained dipole adjustment (ANACONDA) for accurate MEG/EEG focal source localizations. Physics in Medicine and Biology, 2005, 50, 4931-4953.	3.0	11
106	Quantitative model for the change of optical resonance in neural activity detection systems based on surface plasmon resonance. Optics and Laser Technology, 2011, 43, 938-948.	4.6	11
107	An EEG-based real-time cortical functional connectivity imaging system. Medical and Biological Engineering and Computing, 2011, 49, 985-995.	2.8	11
108	Depth-dependent cerebral hemodynamic responses following Direct Cortical Electrical Stimulation (DCES) revealed by in vivo dual-optical imaging techniques. Optics Express, 2012, 20, 6932.	3.4	11

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109	Disruption of the Posterior Medial Network during the Acute Stage of Transient Global Amnesia. Clinical EEG and Neuroscience, 2016, 47, 69-74.	1.7	11
110	Classification of visual stimuli with different spatial patterns for singleâ€frequency, multiâ€class SSVEP BCI. Electronics Letters, 2013, 49, 1374-1376.	1.0	10
111	Localization of epileptogenic zones in Lennox–Gastaut syndrome (LGS) using graph theoretical analysis of ictal intracranial EEG: A preliminary investigation. Brain and Development, 2015, 37, 29-36.	1.1	10
112	Estimating Consumers' Subjective Preference Using Functional near Infrared Spectroscopy: A Feasibility Study. Journal of Near Infrared Spectroscopy, 2016, 24, 433-441.	1.5	10
113	Multi-channel transorbital electrical stimulation for effective stimulation of posterior retina. Scientific Reports, 2021, 11, 9745.	3.3	10
114	Magnetoencephalography cortical source imaging using spherical mapping. IEEE Transactions on Magnetics, 2005, 41, 1984-1987.	2.1	9
115	Precise Estimation of Brain Electrical Sources Using Anatomically Constrained Area Source (ACAS) Localization. IEEE Transactions on Magnetics, 2007, 43, 1713-1716.	2.1	9
116	Point Collocation Mesh-Free Method Using FMLSRKM for Solving Axisymmetric Laplace Equation. IEEE Transactions on Magnetics, 2008, 44, 1234-1237.	2.1	9
117	Localization of ictal onset zones in Lennox–Gastaut syndrome (LGS) based on information theoretical time delay analysis of intracranial electroencephalography (iEEC). Epilepsy Research, 2012, 99, 78-86.	1.6	9
118	Reduced Frontal P3a Amplitude in Migraine Patients during the Pain-Free Period. Journal of Clinical		

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127	Analysis of a nanopositioning actuator using numerical and analytic methods. Smart Materials and Structures, 2008, 17, 025025.	3.5	8
128	Localization of epileptogenic zones in Lennox–Gastaut syndrome using frequency domain source imaging of intracranial electroencephalography: a preliminary investigation. Physiological Measurement, 2013, 34, 247-263.	2.1	8
129	Transient Global Amnesia Deteriorates the Network Efficiency of the Theta Band. PLoS ONE, 2016, 11, e0164884.	2.5	8
130	Electrophysiological correlates of object-repetition effects: sLORETA imaging with 64-channel EEG and individual MRI. BMC Neuroscience, 2012, 13, 124.	1.9	7
131	Integrative Evaluation of Automated Massage Combined with Thermotherapy: Physical, Physiological, and Psychological Viewpoints. BioMed Research International, 2016, 2016, 1-8.	1.9	7
132	Development of an electrooculogram-based human-computer interface using involuntary eye movement by spatially rotating sound for communication of locked-in patients. Scientific Reports, 2018, 8, 9505.	3.3	7
133	Magnetoencephalography source localization using improved simplex method. Inverse Problems in Science and Engineering, 2008, 16, 499-510.	1.2	6
134	Implementation of a mental spelling system based on steady-state visual evoked potential (SSVEP). , 2013, , .		6
135	"Eyes-closed" SSVEP-based BCI for binary communication of individuals with impaired oculomotor function. , 2013, , .		6
136	Influence of spatial frequency and emotion expression on face processing in patients with panic disorder. Journal of Affective Disorders, 2016, 197, 159-166.	4.1	6
137	Recent advances in biomagnetism and its applications. Biomedical Engineering Letters, 2017, 7, 183-184.	4.1	6
138	EEG-based brain-computer interface for real-time communication of patients in completely locked-in state. , 2018, , .		6
139	EEG Spectral Analysis. Biological and Medical Physics Series, 2018, , 35-53.	0.4	6
140	Fast and robust localization of brain electrical sources using evolution strategies: Monte-carlo simulation and phantom experiment studies. International Journal of Applied Electromagnetics and Mechanics, 2004, 20, 197-203.	0.6	5
141	Enhancing accuracy in magneto-and electroencephalography focal source localization. IEEE Transactions on Magnetics, 2006, 42, 1387-1390.	2.1	5
142	Reconstruction of Continuous and Focalized Brain Functional Source Images From Electroencephalography. IEEE Transactions on Magnetics, 2007, 43, 1709-1712.	2.1	5
143	An improved technique to consider mismatches between fMRI and EEG/MEG sources for fMRI constrained EEG/MEG source imaging. Biomedical Engineering Letters, 2011, 1, 32-41.	4.1	5
144	Soldering-based easy packaging of thin polyimide multichannel electrodes for neuro-signal recording. Journal of Micromechanics and Microengineering, 2012, 22, 115017.	2.6	5

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145	Techniques for Efficient Computation of Electric Fields Generated by Transcranial Direct-Current Stimulation. IEEE Transactions on Magnetics, 2018, 54, 1-5.	2.1	5
146	Comparison of magnetic field distributions generated by various permanent magnets for transcranial static magnetic stimulation: A simulation study. Computers in Biology and Medicine, 2019, 114, 103476.	7.0	5
147	Performance Improvement of Near-Infrared Spectroscopy-Based Brain-Computer Interfaces Using Transcranial Near-Infrared Photobiomodulation With the Same Device. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2020, 28, 2608-2614.	4.9	5
148	EEG response to game-craving according to personal preference for games. Social Cognitive and Affective Neuroscience, 2021, 16, 995-1005.	3.0	5
149	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. Sensors, 2020, 20, 988.	3.8	5
150	<scp>Inâ€vivo</scp> estimation of tissue electrical conductivities of a rabbit eye for precise simulation of electric field distributions during ocular iontophoresis. International Journal for Numerical Methods in Biomedical Engineering, 2022, 38, e3540.	2.1	5
151	Deep-learning-based real-time silent speech recognition using facial electromyogram recorded around eyes for hands-free interfacing in aÂvirtual reality environment. Virtual Reality, 2022, 26, 1047-1057.	6.1	5
152	Novel Signal-to-Signal translation method based on StarGAN to generate artificial EEG for SSVEP-based brain-computer interfaces. Expert Systems With Applications, 2022, 203, 117574.	7.6	5
153	Optimization of the coil shape in deflection yoke considering practical coil winding processes. IEEE Transactions on Magnetics, 2002, 38, 1077-1080.	2.1	4
154	Estimation of Solution Accuracy From Leadfield Matrix in Magnetoencephalography. IEEE Transactions on Magnetics, 2007, 43, 1701-1704.	2.1	4
155	Applied Mathematics in Biomedical Sciences and Engineering. Journal of Applied Mathematics, 2012, 2012, 1-3.	0.9	4
156	Development of a hybrid mental speller combining EEG-based brain-computer interface and webcam-based eye-tracking. , 2013, 2013, 2240-2.		4
157	A new multimodal cortical source imaging algorithm for integrating simultaneously recorded EEG and MEG. Inverse Problems in Science and Engineering, 2013, 21, 1074-1089.	1.2	4
158	EEG-based neurocinematics: challenges and prospects. Brain-Computer Interfaces, 2015, 2, 186-192.	1.8	4
159	Automatic Identification of Interictal Epileptiform Discharges in Secondary Generalized Epilepsy. Computational and Mathematical Methods in Medicine, 2016, 2016, 1-10.	1.3	4
160	Classification of Different Cognitive Load using Electroencephalogram(EEG): Preliminary Study. , 2018, , .		4
161	Prediction Method of Walking Speed at Swing Phase using Soleus Electromyogram Signal at Previous Stance Phase. , 2018, 2018, 2308-2311.		4
162	Machine-Learning-Based Detection of Craving for Gaming Using Multimodal Physiological Signals: Validation of Test-Retest Reliability for Practical Use. Sensors, 2019, 19, 3475.	3.8	4

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163	Dysfunctional Patterns of Gamma-Band Activity in Response to Human Faces Compared to Non-Facial Stimuli in Patients with Schizophrenia. Psychiatry Investigation, 2016, 13, 349.	1.6	4
164	Influence of the Number of Channels and Classification Algorithm on the Performance Robustness to Electrode Shift in Steady-State Visual Evoked Potential-Based Brain-Computer Interfaces. Frontiers in Neuroinformatics, 2021, 15, 750839.	2.5	4
165	Can Anodal Transcranial Direct Current Stimulation Increase Steady-State Visual Evoked Potential Responses?. Journal of Korean Medical Science, 2019, 34, e285.	2.5	4
166	Analysis of the three-phase transformer considering the nonlinear and anisotropic properties using the transmission line modeling method and FEM. IEEE Transactions on Magnetics, 2001, 37, 3490-3493.	2.1	3
167	Three-dimensional constrained optimization of modular toroid-type SMES using co-evolutionary algorithm. International Journal of Applied Electromagnetics and Mechanics, 2004, 20, 105-114.	0.6	3
168	Multiresolutive Reconstruction of Magnetoencephalography Source Distribution. IEEE Transactions on Magnetics, 2004, 40, 1100-1103.	2.1	3
169	Novel Multidipole Searching Technique for Magnetoencephalography Source Localization. IEEE Transactions on Magnetics, 2004, 40, 627-630.	2.1	3
170	Numerical computation of inductance of complex coil systems. International Journal of Applied Electromagnetics and Mechanics, 2009, 29, 15-23.	0.6	3
171	EEC-based real-time dynamic neuroimaging. , 2009, 2009, 5385-8.		3
172	Mathematical Issues in the Inference of Causal Interactions among Multichannel Neural Signals. Journal of Applied Mathematics, 2012, 2012, 1-14.	0.9	3
173	Source activation during facial emotion perception correlates with positive and negative symptoms scores of schizophrenia. , 2013, 2013, 6325-8.		3
174	Inconsistent outcomes of transcranial direct current stimulation (tDCS) may be originated from the anatomical differences among individuals: A simulation study using individual MRI data. , 2013, 2013, 823-5.		3
175	Interhemispheric and Intrahemispheric Connectivity From the Left Pars Opercularis Within the Language Network Is Modulated by Transcranial Stimulation in Healthy Subjects. Frontiers in Human Neuroscience, 2020, 14, 63.	2.0	3
176	Estimation of Emotional Arousal Changes of a Group of Individuals During Movie Screening Using Steady-State Visual-Evoked Potential. Frontiers in Neuroinformatics, 2021, 15, 731236.	2.5	3
177	Can Corticomuscular Coherence Differentiate between REM Sleep Behavior Disorder with or without Parkinsonism?. Journal of Clinical Medicine, 2021, 10, 5585.	2.4	3
178	Characteristic analysis of planar motor using the volume integral equation method. International Journal of Applied Electromagnetics and Mechanics, 2003, 17, 259-269.	0.6	2
179	Numerical Emulator for Walk-Through Metal Detectors Using 3-D Indirect Boundary Integral Equation Method. IEEE Transactions on Instrumentation and Measurement, 2005, 54, 1166-1170.	4.7	2
180	Improved magnetoencephalography source reconstruction considering anatomical connectivity of cortical sources. IEEE Transactions on Magnetics, 2006, 42, 1379-1382.	2.1	2

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181	Estimation of Brain Electrical Sources Using Multilevel Source Space Model. IEEE Transactions on Magnetics, 2007, 43, 1697-1700.	2.1	2
182	New Method for Pure-Tone Audiometry Using Electrooculogram: A Proof-of-Concept Study. Sensors, 2018, 18, 3651.	3.8	2
183	Classification of Gamers Using Multiple Physiological Signals: Distinguishing Features of Internet Gaming Disorder. Frontiers in Psychology, 2021, 12, 714333.	2.1	2
184	Enhanced Performance by Interpretable Low-Frequency Electroencephalogram Oscillations in the Machine Learning-Based Diagnosis of Post-traumatic Stress Disorder. Frontiers in Neuroinformatics, 2022, 16, 811756.	2.5	2
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