

Chang-Hwan Im

List of Publications by Year in descending order

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210
papers

4,827
citations

101384

36
h-index

143772

57
g-index

218
all docs

218
docs citations

218
times ranked

5172
citing authors

#	ARTICLE	IF	CITATIONS
1	Development of an SSVEP-based BCI spelling system adopting a QWERTY-style LED keyboard. <i>Journal of Neuroscience Methods</i> , 2012, 208, 59-65.	1.3	225
2	EEG-Based Brain-Computer Interfaces: A Thorough Literature Survey. <i>International Journal of Human-Computer Interaction</i> , 2013, 29, 814-826.	3.3	193
3	Multimodal function optimization based on particle swarm optimization. <i>IEEE Transactions on Magnetics</i> , 2006, 42, 1095-1098.	1.2	169
4	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.	1.0	149
5	Machine-learning-based diagnosis of schizophrenia using combined sensor-level and source-level EEG features. <i>Schizophrenia Research</i> , 2016, 176, 314-319.	1.1	120
6	Classification of selective attention to auditory stimuli: Toward vision-free brain-computer interfacing. <i>Journal of Neuroscience Methods</i> , 2011, 197, 180-185.	1.3	106
7	Hybrid genetic algorithm for electromagnetic topology optimization. <i>IEEE Transactions on Magnetics</i> , 2003, 39, 2163-2169.	1.2	101
8	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.	1.1	89
9	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.	2.1	86
10	Evaluation of local electric fields generated by transcranial direct current stimulation with an extracephalic reference electrode based on realistic 3D body modeling. <i>Physics in Medicine and Biology</i> , 2012, 57, 2137-2150.	1.6	85
11	Evaluation of various mental task combinations for near-infrared spectroscopy-based brain-computer interfaces. <i>Journal of Biomedical Optics</i> , 2014, 19, 077005.	1.4	85
12	fNIRS Evidence for Recognizably Different Positive Emotions. <i>Frontiers in Human Neuroscience</i> , 2019, 13, 120.	1.0	83
13	Determination of optimal electrode positions for transcranial direct current stimulation (tDCS). <i>Physics in Medicine and Biology</i> , 2008, 53, N219-N225.	1.6	79
14	Magnetic field analysis of 2-D permanent magnet array for planar motor. <i>IEEE Transactions on Magnetics</i> , 2001, 37, 3762-3766.	1.2	72
15	Changes in network connectivity during motor imagery and execution. <i>PLoS ONE</i> , 2018, 13, e0190715.	1.1	71
16	Decreased EEG synchronization and its correlation with symptom severity in Alzheimer's disease. <i>Neuroscience Research</i> , 2008, 62, 112-117.	1.0	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. <i>Frontiers in Neuroinformatics</i> , 2018, 12, 5.	1.3	70
18	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.	1.1	62

#	ARTICLE	IF	CITATIONS
19	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.	1.3	62
20	Altered cortical functional network in major depressive disorder: A resting-state electroencephalogram study. <i>NeuroImage: Clinical</i> , 2018, 19, 1000-1007.	1.4	61
21	Real-Time "Eye-Writing" Recognition Using Electrooculogram. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2017, 25, 37-48.	2.7	60
22	Detection of eye blink artifacts from single prefrontal channel electroencephalogram. <i>Computer Methods and Programs in Biomedicine</i> , 2016, 124, 19-30.	2.6	59
23	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.	3.5	54
24	Performance enhancement of a brain-computer interface using high-density multi-distance NIRS. <i>Scientific Reports</i> , 2017, 7, 16545.	1.6	54
25	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.	1.2	50
26	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, 142-154.	1.3	48
27	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.	1.4	48
28	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.	2.4	47
29	Clinical Implications of Quantitative Electroencephalography and Current Source Density in Patients with Alzheimer's Disease. <i>Brain Topography</i> , 2012, 25, 461-474.	0.8	45
30	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.	1.8	45
31	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, 571-579.	1.6	42
32	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.	1.6	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. <i>Psychopharmacology</i> , 2011, 213, 625-632.	1.5	40
34	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.	2.6	40
35	A Novel Algorithm for Multimodal Function Optimization Based on Evolution Strategy. <i>IEEE Transactions on Magnetics</i> , 2004, 40, 1224-1227.	1.2	39
36	Brain Networks Responsible for Sense of Agency: An EEG Study. <i>PLoS ONE</i> , 2015, 10, e0135261.	1.1	39

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37	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.	1.2	38
38	Global synchronization index as a biological correlate of cognitive decline in Alzheimer's disease. <i>Neuroscience Research</i> , 2010, 66, 333-339.	1.0	37
39	A Novel Array-Type Transcranial Direct Current Stimulation (tDCS) System for Accurate Focusing on Targeted Brain Areas. <i>IEEE Transactions on Magnetics</i> , 2011, 47, 882-885.	1.2	37
40	Auditory evoked potential could reflect emotional sensitivity and impulsivity. <i>Scientific Reports</i> , 2016, 6, 37683.	1.6	37
41	Reduced source activity of event-related potentials for affective facial pictures in schizophrenia patients. <i>Schizophrenia Research</i> , 2012, 136, 150-159.	1.1	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. <i>Computers and Education</i> , 2013, 63, 208-217.	5.1	36
43	An emergency call system for patients in locked-in state using an SSVEP-based brain switch. <i>Psychophysiology</i> , 2017, 54, 1632-1643.	1.2	36
44	Dysfunctional gamma-band activity during face structural processing in schizophrenia patients. <i>Schizophrenia Research</i> , 2010, 119, 191-197.	1.1	33
45	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.	1.1	33
46	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, 449-457.	0.9	32
47	An unsupervised eye blink artifact detection method for real-time electroencephalogram processing. <i>Physiological Measurement</i> , 2016, 37, 401-417.	1.2	32
48	Causal influence of epileptic network during spike-and-wave discharge in juvenile myoclonic epilepsy. <i>Epilepsy Research</i> , 2014, 108, 257-266.	0.8	30
49	Source Activation of P300 Correlates with Negative Symptom Severity in Patients with Schizophrenia. <i>Brain Topography</i> , 2014, 27, 307-317.	0.8	30
50	fMRI-constrained MEG source imaging and consideration of fMRI invisible sources. <i>Human Brain Mapping</i> , 2005, 26, 110-118.	1.9	29
51	Estimation of directional coupling between cortical areas using Near-Infrared Spectroscopy (NIRS). <i>Optics Express</i> , 2010, 18, 5730.	1.7	29
52	Hemodynamic responses in rat brain during transcranial direct current stimulation: a functional near-infrared spectroscopy study. <i>Biomedical Optics Express</i> , 2014, 5, 1812.	1.5	29
53	Cortical volume and 40-Hz auditory-steady-state responses in patients with schizophrenia and healthy controls. <i>NeuroImage: Clinical</i> , 2019, 22, 101732.	1.4	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. <i>Brain Topography</i> , 2011, 24, 91-104.	0.8	28

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55	Abnormal cortical neural synchrony during working memory in schizophrenia. <i>Clinical Neurophysiology</i> , 2018, 129, 210-221.	0.7	28
56	Machine-learning-based classification between post-traumatic stress disorder and major depressive disorder using P300 features. <i>NeuroImage: Clinical</i> , 2019, 24, 102001.	1.4	28
57	Functional cortical source imaging from simultaneously recorded ERP and fMRI. <i>Journal of Neuroscience Methods</i> , 2006, 157, 118-123.	1.3	26
58	Assessment criteria for MEG/EEG cortical patch tests. <i>Physics in Medicine and Biology</i> , 2003, 48, 2561-2573.	1.6	25
59	An electrofusion chip with a cell delivery system driven by surface tension. <i>Journal of Micromechanics and Microengineering</i> , 2009, 19, 015004.	1.5	25
60	Spatiotemporospectral characteristics of scalp ictal EEG in mesial temporal lobe epilepsy with hippocampal sclerosis. <i>Brain Research</i> , 2009, 1287, 206-219.	1.1	25
61	Early visual processing deficits in patients with schizophrenia during spatial frequency-dependent facial affect processing. <i>Schizophrenia Research</i> , 2015, 161, 314-321.	1.1	25
62	Brain Areas Responsible for Vigilance: An EEG Source Imaging Study. <i>Brain Topography</i> , 2017, 30, 343-351.	0.8	25
63	Disrupted cortical brain network in post-traumatic stress disorder patients: a resting-state electroencephalographic study. <i>Translational Psychiatry</i> , 2017, 7, e1231-e1231.	2.4	25
64	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.	2.4	25
65	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.	1.4	25
66	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, 1908-1917.	2.5	23
67	Design of Wearable EEG Devices Specialized for Passive Brain-Computer Interface Applications. <i>Sensors</i> , 2020, 20, 4572.	2.1	23
68	Real-Time Recognition of Facial Expressions Using Facial Electromyograms Recorded Around the Eyes for Social Virtual Reality Applications. <i>IEEE Access</i> , 2020, 8, 62065-62075.	2.6	23
69	Correlation between Inter-Blink Interval and Episodic Encoding during Movie Watching. <i>PLoS ONE</i> , 2015, 10, e0141242.	1.1	23
70	Increased Corticomuscular Coherence in Idiopathic REM Sleep Behavior Disorder. <i>Frontiers in Neurology</i> , 2012, 3, 60.	1.1	22
71	Subject-Independent Functional Near-Infrared Spectroscopy-Based Brain-Computer Interfaces Based on Convolutional Neural Networks. <i>Frontiers in Human Neuroscience</i> , 2021, 15, 646915.	1.0	22
72	Source localization of periodic sharp wave complexes using independent component analysis in sporadic Creutzfeldt-Jakob disease. <i>Brain Research</i> , 2007, 1143, 228-237.	1.1	21

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73	An image-guided transcranial direct current stimulation system: a pilot phantom study. <i>Physiological Measurement</i> , 2013, 34, 937-950.	1.2	21
74	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, 280-287.	0.8	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. <i>IEEE Access</i> , 2018, 6, 19491-19498.	2.6	21
76	Enhanced Template Matching Using Dynamic Positional Warping for Identification of Specific Patterns in Electroencephalogram. <i>Journal of Applied Mathematics</i> , 2014, 2014, 1-7.	0.4	20
77	Altered Network Characteristics of Spike-Wave Discharges in Juvenile Myoclonic Epilepsy. <i>Clinical EEG and Neuroscience</i> , 2017, 48, 111-117.	0.9	20
78	Detection of Craving for Gaming in Adolescents with Internet Gaming Disorder Using Multimodal Biosignals. <i>Sensors</i> , 2018, 18, 102.	2.1	20
79	Mismatch Negativity and Cortical Thickness in Patients With Schizophrenia and Bipolar Disorder. <i>Schizophrenia Bulletin</i> , 2019, 45, 425-435.	2.3	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. <i>Schizophrenia Research</i> , 2013, 151, 165-174.	1.1	19
81	Latent awareness: Early conscious access to motor preparation processes is linked to the readiness potential. <i>NeuroImage</i> , 2019, 202, 116140.	2.1	19
82	Auditory brain-computer interfaces (BCIs) and their practical applications. <i>Biomedical Engineering Letters</i> , 2012, 2, 13-17.	2.1	18
83	Fast and Robust Real-Time Estimation of Respiratory Rate from Photoplethysmography. <i>Sensors</i> , 2016, 16, 1494.	2.1	18
84	Motor imagery learning across a sequence of trials in stroke patients. <i>Restorative Neurology and Neuroscience</i> , 2016, 34, 635-645.	0.4	18
85	An EEG-based real-time cortical rhythmic activity monitoring system. <i>Physiological Measurement</i> , 2007, 28, 1101-1113.	1.2	17
86	Altered Cortical Thickness-Based Individualized Structural Covariance Networks in Patients with Schizophrenia and Bipolar Disorder. <i>Journal of Clinical Medicine</i> , 2020, 9, 1846.	1.0	17
87	Performance enhancement of facial electromyogram-based facial-expression recognition for social virtual reality applications using linear discriminant analysis adaptation. <i>Virtual Reality</i> , 2022, 26, 385-398.	4.1	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. <i>IEEE Transactions on Magnetics</i> , 2004, 40, 1326-1329.	1.2	15
90	Data-Driven User Feedback: An Improved Neurofeedback Strategy considering the Interindividual Variability of EEG Features. <i>BioMed Research International</i> , 2016, 2016, 1-7.	0.9	15

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91	On the Feasibility of Using an Ear-EEG to Develop an Endogenous Brain-Computer Interface. <i>Sensors</i> , 2018, 18, 2856.	2.1	15
92	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.	2.4	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. <i>Computational Intelligence and Neuroscience</i> , 2019, 2019, 1-7.	1.1	15
94	Removing the Interdependency between Horizontal and Vertical Eye-Movement Components in Electrooculograms. <i>Sensors</i> , 2016, 16, 227.	2.1	14
95	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.	3.2	14
96	What is the optimal anodal electrode position for inducing corticomotor excitability changes in transcranial direct current stimulation?. <i>Neuroscience Letters</i> , 2015, 584, 347-350.	1.0	13
97	Altered Cortical Functional Networks in Patients With Schizophrenia and Bipolar Disorder: A Resting-State Electroencephalographic Study. <i>Frontiers in Psychiatry</i> , 2020, 11, 661.	1.3	13
98	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.	2.5	13
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.	1.4	13
100	Optimal design of gas circuit breaker for increasing the small current interruption capacity. <i>IEEE Transactions on Magnetics</i> , 2003, 39, 1749-1752.	1.2	12
101	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, 169-178.	0.9	12
102	Comparative analysis of default mode networks in major psychiatric disorders using resting-state EEG. <i>Scientific Reports</i> , 2021, 11, 22007.	1.6	12
103	Multipair transcranial temporal interference stimulation for improved focalized stimulation of deep brain regions: A simulation study. <i>Computers in Biology and Medicine</i> , 2022, 143, 105337.	3.9	12
104	Novel technique for current density distribution analysis of solidly modeled coil. <i>IEEE Transactions on Magnetics</i> , 2002, 38, 505-508.	1.2	11
105	Anatomically constrained dipole adjustment (ANACONDA) for accurate MEG/EEG focal source localizations. <i>Physics in Medicine and Biology</i> , 2005, 50, 4931-4953.	1.6	11
106	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.	2.2	11
107	An EEG-based real-time cortical functional connectivity imaging system. <i>Medical and Biological Engineering and Computing</i> , 2011, 49, 985-995.	1.6	11
108	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.	1.7	11

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109	Disruption of the Posterior Medial Network during the Acute Stage of Transient Global Amnesia. <i>Clinical EEG and Neuroscience</i> , 2016, 47, 69-74.	0.9	11
110	Classification of visual stimuli with different spatial patterns for single-frequency, multi-class SSVEP BCI. <i>Electronics Letters</i> , 2013, 49, 1374-1376.	0.5	10
111	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.	0.6	10
112	Estimating Consumers' Subjective Preference Using Functional near Infrared Spectroscopy: A Feasibility Study. <i>Journal of Near Infrared Spectroscopy</i> , 2016, 24, 433-441.	0.8	10
113	Multi-channel transorbital electrical stimulation for effective stimulation of posterior retina. <i>Scientific Reports</i> , 2021, 11, 9745.	1.6	10
114	Magnetoencephalography cortical source imaging using spherical mapping. <i>IEEE Transactions on Magnetics</i> , 2005, 41, 1984-1987.	1.2	9
115	Precise Estimation of Brain Electrical Sources Using Anatomically Constrained Area Source (ACAS) Localization. <i>IEEE Transactions on Magnetics</i> , 2007, 43, 1713-1716.	1.2	9
116	Point Collocation Mesh-Free Method Using FMLS RKM for Solving Axisymmetric Laplace Equation. <i>IEEE Transactions on Magnetics</i> , 2008, 44, 1234-1237.	1.2	9
117	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.	0.8	9
118	Reduced Frontal P3a Amplitude in Migraine Patients during the Pain-Free Period. <i>Journal of Clinical</i>		

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127	Analysis of a nanopositioning actuator using numerical and analytic methods. Smart Materials and Structures, 2008, 17, 025025.	1.8	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.	1.2	8
129	Transient Global Amnesia Deteriorates the Network Efficiency of the Theta Band. PLoS ONE, 2016, 11, e0164884.	1.1	8
130	Electrophysiological correlates of object-repetition effects: sLORETA imaging with 64-channel EEG and individual MRI. BMC Neuroscience, 2012, 13, 124.	0.8	7
131	Integrative Evaluation of Automated Massage Combined with Thermotherapy: Physical, Physiological, and Psychological Viewpoints. BioMed Research International, 2016, 2016, 1-8.	0.9	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.	1.6	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.	2.0	6
137	Recent advances in biomagnetism and its applications. Biomedical Engineering Letters, 2017, 7, 183-184.	2.1	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.	0.3	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.	0.3	5
141	Enhancing accuracy in magneto-and electroencephalography focal source localization. IEEE Transactions on Magnetics, 2006, 42, 1387-1390.	1.2	5
142	Reconstruction of Continuous and Focalized Brain Functional Source Images From Electroencephalography. IEEE Transactions on Magnetics, 2007, 43, 1709-1712.	1.2	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.	2.1	5
144	Soldering-based easy packaging of thin polyimide multichannel electrodes for neuro-signal recording. Journal of Micromechanics and Microengineering, 2012, 22, 115017.	1.5	5

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145	Techniques for Efficient Computation of Electric Fields Generated by Transcranial Direct-Current Stimulation. <i>IEEE Transactions on Magnetics</i> , 2018, 54, 1-5.	1.2	5
146	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.	3.9	5
147	Performance Improvement of Near-Infrared Spectroscopy-Based Brain-Computer Interfaces Using Transcranial Near-Infrared Photobiomodulation With the Same Device. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2020, 28, 2608-2614.	2.7	5
148	EEG response to game-craving according to personal preference for games. <i>Social Cognitive and Affective Neuroscience</i> , 2021, 16, 995-1005.	1.5	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. <i>Sensors</i> , 2020, 20, 988.	2.1	5
150	<sc>In-vivo</sc> estimation of tissue electrical conductivities of a rabbit eye for precise simulation of electric field distributions during ocular iontophoresis. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2022, 38, e3540.	1.0	5
151	Deep-learning-based real-time silent speech recognition using facial electromyogram recorded around eyes for hands-free interfacing in a virtual reality environment. <i>Virtual Reality</i> , 2022, 26, 1047-1057.	4.1	5
152	Novel Signal-to-Signal translation method based on StarGAN to generate artificial EEG for SSVEP-based brain-computer interfaces. <i>Expert Systems With Applications</i> , 2022, 203, 117574.	4.4	5
153	Optimization of the coil shape in deflection yoke considering practical coil winding processes. <i>IEEE Transactions on Magnetics</i> , 2002, 38, 1077-1080.	1.2	4
154	Estimation of Solution Accuracy From Leadfield Matrix in Magnetoencephalography. <i>IEEE Transactions on Magnetics</i> , 2007, 43, 1701-1704.	1.2	4
155	Applied Mathematics in Biomedical Sciences and Engineering. <i>Journal of Applied Mathematics</i> , 2012, 2012, 1-3.	0.4	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. <i>Inverse Problems in Science and Engineering</i> , 2013, 21, 1074-1089.	1.2	4
158	EEG-based neurocinematics: challenges and prospects. <i>Brain-Computer Interfaces</i> , 2015, 2, 186-192.	0.9	4
159	Automatic Identification of Interictal Epileptiform Discharges in Secondary Generalized Epilepsy. <i>Computational and Mathematical Methods in Medicine</i> , 2016, 2016, 1-10.	0.7	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. <i>Sensors</i> , 2019, 19, 3475.	2.1	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. <i>Psychiatry Investigation</i> , 2016, 13, 349.	0.7	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. <i>Frontiers in Neuroinformatics</i> , 2021, 15, 750839.	1.3	4
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