Chang-Hwan Im

List of Publications by Year in Descending Order

Source: https://exaly.com/author-pdf/8997982/chang-hwan-im-publications-by-year.pdf

Version: 2024-04-19

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

3,388 48 194 32 h-index g-index citations papers 218 5.67 4,277 3.3 L-index avg, IF ext. citations ext. papers

#	Paper	IF	Citations
194	Classification of Individual discrete emotions reflected in facial microexpressions using electroencephalogram and facial electromyogram. <i>Expert Systems With Applications</i> , 2022 , 188, 116101	7.8	O
193	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
192	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	7	1
191	Enhanced Performance by Interpretable Low-Frequency Electroencephalogram Oscillations in the Machine Learning-Based Diagnosis of Post-traumatic Stress Disorder <i>Frontiers in Neuroinformatics</i> , 2022 , 16, 811756	3.9	
190	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	7.8	1
189	EEG response to game-craving according to personal preference for games. <i>Social Cognitive and Affective Neuroscience</i> , 2021 , 16, 995-1005	4	1
188	Comparative analysis of default mode networks in major psychiatric disorders using resting-state EEG. <i>Scientific Reports</i> , 2021 , 11, 22007	4.9	1
187	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	3.9	1
186	In-vivo 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> , 2021 , e3540	2.6	O
185	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
184	Multi-channel transorbital electrical stimulation for effective stimulation of posterior retina. <i>Scientific Reports</i> , 2021 , 11, 9745	4.9	3
183	A Hybrid Brain-Computer Interface for Real-Life Meal-Assist Robot Control. Sensors, 2021 , 21,	3.8	6
182	Estimation of Emotional Arousal Changes of a Group of Individuals During Movie Screening Using Steady-State Visual-Evoked Potential. <i>Frontiers in Neuroinformatics</i> , 2021 , 15, 731236	3.9	O
181	Classification of Gamers Using Multiple Physiological Signals: Distinguishing Features of Internet Gaming Disorder. <i>Frontiers in Psychology</i> , 2021 , 12, 714333	3.4	0
180	Performance enhancement of facial electromyogram-based facial-expression recognition for social virtual reality applications using linear discriminant analysis adaptation. <i>Virtual Reality</i> , 2021 , 1-14	6	2
179	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
178	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

(2019-2020)

177	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
176	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
175	. IEEE Access, 2020 , 8, 62065-62075	3.5	10
174	Development of an Online Home Appliance Control System Using Augmented Reality and an SSVEP-Based Brain-Computer Interface 2020 ,		6
173	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
172	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
171	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
170	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
169	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	4.8	2
168	Design of Wearable EEG Devices Specialized for Passive Brain-Computer Interface Applications. <i>Sensors</i> , 2020 , 20,	3.8	10
167	Interhemispheric and Intrahemispheric Connectivity From the Left Pars Opercularis Within the Language Network Is Modulated by Transcranial Stimulation in Healthy Subjects. <i>Frontiers in Human Neuroscience</i> , 2020 , 14, 63	3.3	1
166	Latent awareness: Early conscious access to motor preparation processes is linked to the readiness potential. <i>NeuroImage</i> , 2019 , 202, 116140	7.9	8
165	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
164	fNIRS Evidence for Recognizably Different Positive Emotions. <i>Frontiers in Human Neuroscience</i> , 2019 , 13, 120	3.3	37
163	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
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	New Strategy for Finite Element Mesh Generation for Accurate Solutions of Electroencephalography Forward Problems. <i>Brain Topography</i> , 2019 , 32, 354-362	4.3	О
160	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

159	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
158	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
157	Can Anodal Transcranial Direct Current Stimulation Increase Steady-State Visual Evoked Potential Responses?. <i>Journal of Korean Medical Science</i> , 2019 , 34, e285	4.7	1
156	Development of an Online Home Appliance Control System Using Augmented Reality and an SSVEP-Based BrainComputer Interface. <i>IEEE Access</i> , 2019 , 7, 163604-163614	3.5	14
155	Mismatch Negativity and Cortical Thickness in Patients With Schizophrenia and Bipolar Disorder. <i>Schizophrenia Bulletin</i> , 2019 , 45, 425-435	1.3	15
154	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
153	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
152	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
151	Detection of Craving for Gaming in Adolescents with Internet Gaming Disorder Using Multimodal Biosignals. <i>Sensors</i> , 2018 , 18,	3.8	11
150	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
149	Altered cortical functional network during behavioral inhibition in individuals with childhood trauma. <i>Scientific Reports</i> , 2018 , 8, 10123	4.9	8
148	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
147	Basics of EEG: Generation, Acquisition, and Applications of EEG 2018 , 3-11		1
146	EEG Spectral Analysis 2018 , 35-53		4
145	Altered cortical functional network in major depressive disorder: A resting-state electroencephalogram study. <i>NeuroImage: Clinical</i> , 2018 , 19, 1000-1007	5.3	32
144	Changes in network connectivity during motor imagery and execution. <i>PLoS ONE</i> , 2018 , 13, e0190715	3.7	39
143	Abnormal cortical neural synchrony during working memory in schizophrenia. <i>Clinical Neurophysiology</i> , 2018 , 129, 210-221	4.3	16
142	Classification of Different Cognitive Load using Electroencephalogram(EEG): Preliminary Study 2018,		3

141	New Method for Pure-Tone Audiometry Using Electrooculogram: A Proof-of-Concept Study. <i>Sensors</i> , 2018 , 18,	3.8	2
140	Prediction Method of Walking Speed at Swing Phase using Soleus Electromyogram Signal at Previous Stance Phase. Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference,	0.9	3
139	On the Feasibility of Using an Ear-EEG to Develop an Endogenous Brain-Computer Interface. Sensors, 2018 , 18,	3.8	7
138	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
137	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
136	Altered Network Characteristics of Spike-Wave Discharges in Juvenile Myoclonic Epilepsy. <i>Clinical EEG and Neuroscience</i> , 2017 , 48, 111-117	2.3	11
135	Real-Time "Eye-Writing" Recognition Using Electrooculogram. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2017 , 25, 37-48	4.8	44
134	Brain Areas Responsible for Vigilance: An EEG Source Imaging Study. <i>Brain Topography</i> , 2017 , 30, 343-35	54 .3	13
133	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
132	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
131	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
130	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
129	Performance enhancement of a brain-computer interface using high-density multi-distance NIRS. <i>Scientific Reports</i> , 2017 , 7, 16545	4.9	35
128	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
127	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
126	Estimation of Symptom Severity Scores for Patients with Schizophrenia Using ERP Source Activations during a Facial Affect Discrimination Task. <i>Frontiers in Neuroscience</i> , 2017 , 11, 436	5.1	
125	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
124	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

123	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
122	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
121	Fast and Robust Real-Time Estimation of Respiratory Rate from Photoplethysmography. <i>Sensors</i> , 2016 , 16,	3.8	14
120	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
119	Integrative Evaluation of Automated Massage Combined with Thermotherapy: Physical, Physiological, and Psychological Viewpoints. <i>BioMed Research International</i> , 2016 , 2016, 2826905	3	3
118	Automatic Identification of Interictal Epileptiform Discharges in Secondary Generalized Epilepsy. <i>Computational and Mathematical Methods in Medicine</i> , 2016 , 2016, 8701973	2.8	4
117	Removing the Interdependency between Horizontal and Vertical Eye-Movement Components in Electrooculograms. <i>Sensors</i> , 2016 , 16, 227	3.8	10
116	Transient Global Amnesia Deteriorates the Network Efficiency of the Theta Band. <i>PLoS ONE</i> , 2016 , 11, e0164884	3.7	5
115	An unsupervised eye blink artifact detection method for real-time electroencephalogram processing. <i>Physiological Measurement</i> , 2016 , 37, 401-17	2.9	27
114	Auditory evoked potential could reflect emotional sensitivity and impulsivity. <i>Scientific Reports</i> , 2016 , 6, 37683	4.9	25
113	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
112	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
111	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
110	Development of a hybrid mental spelling system combining SSVEP-based brainflomputer interface and webcam-based eye tracking. <i>Biomedical Signal Processing and Control</i> , 2015 , 21, 99-104	4.9	43
109	EEG-based neurocinematics: challenges and prospects. <i>Brain-Computer Interfaces</i> , 2015 , 2, 186-192	2	4
108	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
107	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
106	Brain Networks Responsible for Sense of Agency: An EEG Study. <i>PLoS ONE</i> , 2015 , 10, e0135261	3.7	23

105	Neurocinematics based on passive BCI: Decoding temporal change of emotional arousal during video watching from multi-channel EEG 2015 ,		1
104	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
103	Transcranial direct current stimulation on primary sensorimotor area has no effect in patients with drug-nalle restless legs syndrome: a proof-of-concept clinical trial. <i>Sleep Medicine</i> , 2015 , 16, 280-7	4.6	17
102	Correlation between Inter-Blink Interval and Episodic Encoding during Movie Watching. <i>PLoS ONE</i> , 2015 , 10, e0141242	3.7	16
101	Motor imagery learning across a sequence of Itrials in stroke patients. <i>Restorative Neurology and Neuroscience</i> , 2015 , 34, 635-45	2.8	10
100	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
99	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
98	P1-185: ALTERATION OF CORTICAL NEURONAL ACTIVITY DURING THE ACUTE STAGE OF TRANSIENT GLOBAL AMNESIA 2014 , 10, P367-P367		
97	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
96	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
95	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
94	Applied Mathematics in Biomedical Sciences and Engineering 2014. <i>Journal of Applied Mathematics</i> , 2014 , 2014, 1-2	1.1	
93	Causal influence of epileptic network during spike-and-wave discharge in juvenile myoclonic epilepsy. <i>Epilepsy Research</i> , 2014 , 108, 257-66	3	16
92	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
91	Source activation of P300 correlates with negative symptom severity in patients with schizophrenia. <i>Brain Topography</i> , 2014 , 27, 307-17	4.3	22
90	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
89	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
88	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

87	Implementation of a mental spelling system based on steady-state visual evoked potential (SSVEP) 2013 ,		4
86	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
85	Development of a hybrid mental speller combining EEG-based brain-computer interface and webcam-based eye-tracking. Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference,	0.9	2
84	Source activation during facial emotion perception correlates with positive and negative symptoms scores of schizophrenia. Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference,	0.9	3
83	EEG-Based Brain-Computer Interfaces: A Thorough Literature Survey. <i>International Journal of Human-Computer Interaction</i> , 2013 , 29, 814-826	3.6	130
82	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
81	Eyes-closed SVEP-based BCI for binary communication of individuals with impaired oculomotor function 2013,		2
80	An image-guided transcranial direct current stimulation system: a pilot phantom study. <i>Physiological Measurement</i> , 2013 , 34, 937-50	2.9	16
79	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
78	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
77	Development of an "eyes-closed" brain-computer interface system for communication of patients with oculomotor impairment. Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference,	0.9	1
76	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</i>	0.9	3
75	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
74	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
73	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
72	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
71	Development of an SSVEP-based BCI spelling system adopting a QWERTY-style LED keyboard. Journal of Neuroscience Methods, 2012 , 208, 59-65	3	172
70	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

69	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
68	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
67	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
66	Increased Corticomuscular Coherence in Idiopathic REM Sleep Behavior Disorder. <i>Frontiers in Neurology</i> , 2012 , 3, 60	4.1	17
65	Auditory brain-computer interfaces (BCIs) and their practical applications. <i>Biomedical Engineering Letters</i> , 2012 , 2, 13-17	3.6	13
64	Influence of orientation and area of the extended cortical current source on the magnetoencephalography (MEG) inverse problem. <i>Biomedical Engineering Letters</i> , 2012 , 2, 124-128	3.6	
63	Mathematical Issues in the Inference of Causal Interactions among Multichannel Neural Signals. Journal of Applied Mathematics, 2012 , 2012, 1-14	1.1	2
62	Applied Mathematics in Biomedical Sciences and Engineering. <i>Journal of Applied Mathematics</i> , 2012 , 1-3	1.1	
61	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
60	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
59	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
58	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
57	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	2	26
56	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	4.3	21
55	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
54	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
53	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
52	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

51	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
50	Dysfunctional gamma-band activity during face structural processing in schizophrenia patients. <i>Schizophrenia Research</i> , 2010 , 119, 191-7	3.6	29
49	Estimation of directional coupling between cortical areas using Near-Infrared Spectroscopy (NIRS). <i>Optics Express</i> , 2010 , 18, 5730-9	3.3	25
48	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
47	EEG-based real-time dynamic neuroimaging. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2009 , 2009, 5385-8	0.9	1
46	An electrofusion chip with a cell delivery system driven by surface tension. <i>Journal of Micromechanics and Microengineering</i> , 2009 , 19, 015004	2	23
45	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
44	Numerical computation of inductance of complex coil systems. <i>International Journal of Applied Electromagnetics and Mechanics</i> , 2009 , 29, 15-23	0.4	3
43	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	5-7049	38
42	Point Collocation Mesh-Free Method Using FMLSRKM for Solving Axisymmetric Laplace Equation. <i>IEEE Transactions on Magnetics</i> , 2008 , 44, 1234-1237	2	8
41	A New Neuronal Electrical Source Model Considering Electrophysiology to Simulate Realistic Electroencephalography (EEG) Forward Signals. <i>IEEE Transactions on Magnetics</i> , 2008 , 44, 1434-1437	2	
40	Decreased EEG synchronization and its correlation with symptom severity in Alzheimer's disease. <i>Neuroscience Research</i> , 2008 , 62, 112-7	2.9	60
39	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
38	Analysis of a nanopositioning actuator using numerical and analytic methods. <i>Smart Materials and Structures</i> , 2008 , 17, 025025	3.4	6
37	Magnetoencephalography source localization using improved simplex method. <i>Inverse Problems in Science and Engineering</i> , 2008 , 16, 499-510	1.3	5
36	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
35	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
34	Estimation of Brain Electrical Sources Using Multilevel Source Space Model. <i>IEEE Transactions on Magnetics</i> , 2007 , 43, 1697-1700	2	2

33	Estimation of Solution Accuracy From Leadfield Matrix in Magnetoencephalography. <i>IEEE Transactions on Magnetics</i> , 2007 , 43, 1701-1704	2	4
32	Reconstruction of Continuous and Focalized Brain Functional Source Images From Electroencephalography. <i>IEEE Transactions on Magnetics</i> , 2007 , 43, 1709-1712	2	3
31	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
30	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
29	An EEG-based real-time cortical rhythmic activity monitoring system. <i>Physiological Measurement</i> , 2007 , 28, 1101-13	2.9	16
28	Estimation of Solution Accuracy in Magnetoencephalography by using the Condition Number from a Leadfield Matrix 2007 , 2710-2713		
27	Magnetoencephalography Source Localization using Improved Simplex Method 2007 , 2726-2729		
26	Multimodal function optimization based on particle swarm optimization. <i>IEEE Transactions on Magnetics</i> , 2006 , 42, 1095-1098	2	119
25	. IEEE Transactions on Magnetics, 2006 , 42, 1379-1382	2	1
24	Enhancing accuracy in magneto-and electroencephalography focal source localization. <i>IEEE Transactions on Magnetics</i> , 2006 , 42, 1387-1390	2	2
23	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, 600	5 <i>-</i> 328	7
22	Functional cortical source imaging from simultaneously recorded ERP and fMRI. <i>Journal of Neuroscience Methods</i> , 2006 , 157, 118-23	3	23
21	Numerical emulator for walk-through metal detectors using 3-D indirect boundary integral equation method. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2005 , 54, 1166-1170	5.2	2
20	Magnetoencephalography cortical source imaging using spherical mapping. <i>IEEE Transactions on Magnetics</i> , 2005 , 41, 1984-1987	2	7
19	fMRI-constrained MEG source imaging and consideration of fMRI invisible sources. <i>Human Brain Mapping</i> , 2005 , 26, 110-8	5.9	27
18	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
17	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
16	Three-dimensional constrained optimization of modular toroid-type SMES using co-evolutionary algorithm. <i>International Journal of Applied Electromagnetics and Mechanics</i> , 2004 , 20, 105-114	0.4	1

15	Multiresolutive reconstruction of magnetoencephalography source distribution. <i>IEEE Transactions on Magnetics</i> , 2004 , 40, 1100-1103	2	2
14	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
13	Novel multidipole searching technique for magnetoencephalography source localization. <i>IEEE Transactions on Magnetics</i> , 2004 , 40, 627-630	2	3
12	A novel algorithm for multimodal function optimization based on evolution strategy. <i>IEEE Transactions on Magnetics</i> , 2004 , 40, 1224-1227	2	29
11	Assessment criteria for MEG/EEG cortical patch tests. <i>Physics in Medicine and Biology</i> , 2003 , 48, 2561-73	3.8	23
10	Electromagnetic topology optimization using large-step markov chain method with novel local optimization algorithm. <i>International Journal of Applied Electromagnetics and Mechanics</i> , 2003 , 18, 259-	26 7 4	1
9	Characteristic analysis of planar motor using the volume integral equation method. <i>International Journal of Applied Electromagnetics and Mechanics</i> , 2003 , 17, 259-269	0.4	2
8	Hybrid genetic algorithm for electromagnetic topology optimization. <i>IEEE Transactions on Magnetics</i> , 2003 , 39, 2163-2169	2	70
7	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
6	Novel technique for current density distribution analysis of solidly modeled coil. <i>IEEE Transactions on Magnetics</i> , 2002 , 38, 505-508	2	10
5	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
4	Magnetic field analysis of 2-D permanent magnet array for planar motor. <i>IEEE Transactions on Magnetics</i> , 2001 , 37, 3762-3766	2	53
3	Efficient technique for 3-D edge element method considering geometrical symmetry. <i>IEEE Transactions on Magnetics</i> , 2001 , 37, 3190-3193	2	1
2	Analysis of the three-phase transformer considering the nonlinear and anisotropic properties using the transmission line modeling method and FEM. <i>IEEE Transactions on Magnetics</i> , 2001 , 37, 3490-3493	2	O
1	Deep-learning-based real-time silent speech recognition using facial electromyogram recorded around eyes for hands-free interfacing in alvirtual reality environment. <i>Virtual Reality</i> ,1	6	1