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	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.	4.1	17
2	<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.	1.0	5
3	Classification of Individualâ€™s discrete emotions reflected in facial microexpressions using electroencephalogram and facial electromyogram. Expert Systems With Applications, 2022, 188, 116101.	4.4	9
4	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.	4.1	5
5	Novel Hybrid Brain-Computer Interface for Virtual Reality Applications Using Steady-State Visual-Evoked Potential-Based Brainâ€“Computer Interface and Electrooculogram-Based Eye Tracking for Increased Information Transfer Rate. Frontiers in Neuroinformatics, 2022, 16, 758537.	1.3	9
6	Multipair transcranial temporal interference stimulation for improved focalized stimulation of deep brain regions: A simulation study. Computers in Biology and Medicine, 2022, 143, 105337.	3.9	12
7	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.	1.3	2
8	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.	4.4	5
9	EEG response to game-craving according to personal preference for games. Social Cognitive and Affective Neuroscience, 2021, 16, 995-1005.	1.5	5
10	Subject-Independent Functional Near-Infrared Spectroscopy-Based Brainâ€“Computer Interfaces Based on Convolutional Neural Networks. Frontiers in Human Neuroscience, 2021, 15, 646915.	1.0	22
11	Multi-channel transorbital electrical stimulation for effective stimulation of posterior retina. Scientific Reports, 2021, 11, 9745.	1.6	10
12	A Hybrid Brainâ€“Computer Interface for Real-Life Meal-Assist Robot Control. Sensors, 2021, 21, 4578.	2.1	9
13	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.	1.3	3
14	Classification of Gamers Using Multiple Physiological Signals: Distinguishing Features of Internet Gaming Disorder. Frontiers in Psychology, 2021, 12, 714333.	1.1	2
15	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.	1.3	4
16	Comparative analysis of default mode networks in major psychiatric disorders using resting-state EEG. Scientific Reports, 2021, 11, 22007.	1.6	12
17	Can Corticomuscular Coherence Differentiate between REM Sleep Behavior Disorder with or without Parkinsonism?. Journal of Clinical Medicine, 2021, 10, 5585.	1.0	3
18	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.	1.6	41

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19	Altered Cortical Functional Networks in Patients With Schizophrenia and Bipolar Disorder: A Resting-State Electroencephalographic Study. Frontiers in Psychiatry, 2020, 11, 661.	1.3	13
20	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.	2.7	5
21	Design of Wearable EEG Devices Specialized for Passive Brainâ€“Computer Interface Applications. Sensors, 2020, 20, 4572.	2.1	23
22	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.	2.5	13
23	Altered Cortical Thickness-Based Individualized Structural Covariance Networks in Patients with Schizophrenia and Bipolar Disorder. Journal of Clinical Medicine, 2020, 9, 1846.	1.0	17
24	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.	1.1	33
25	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.	1.4	13
26	Real-Time Recognition of Facial Expressions Using Facial Electromyograms Recorded Around the Eyes for Social Virtual Reality Applications. IEEE Access, 2020, 8, 62065-62075.	2.6	23
27	Development of an Online Home Appliance Control System Using Augmented Reality and an SSVEP-Based Brain-Computer Interface. , 2020, , .		16
28	Prediction of Individual Userâ€™s Dynamic Ranges of EEG Features from Resting-State EEG Data for Evaluating Their Suitability for Passive Brainâ€“Computer Interface Applications. Sensors, 2020, 20, 988.	2.1	5
29	Development of a Brainâ€“Computer Interface Toggle Switch with Low False-Positive Rate Using Respiration-Modulated Photoplethysmography. Sensors, 2020, 20, 348.	2.1	9
30	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.	1.0	3
31	New Strategy for Finite Element Mesh Generation for Accurate Solutions of Electroencephalography Forward Problems. Brain Topography, 2019, 32, 354-362.	0.8	1
32	Machine-Learning-Based Detection of Craving for Gaming Using Multimodal Physiological Signals: Validation of Test-Retest Reliability for Practical Use. Sensors, 2019, 19, 3475.	2.1	4
33	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.	1.1	15
34	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.	3.9	5
35	Classification of Functional Near-Infrared Spectrocopy Signals during Passive and Combinatory Exercises for Neurorehabilitation. , 2019, , .		0
36	Latent awareness: Early conscious access to motor preparation processes is linked to the readiness potential. NeuroImage, 2019, 202, 116140.	2.1	19

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37	Machine-learning-based classification between post-traumatic stress disorder and major depressive disorder using P300 features. NeuroImage: Clinical, 2019, 24, 102001.	1.4	28
38	fNIRS Evidence for Recognizably Different Positive Emotions. Frontiers in Human Neuroscience, 2019, 13, 120.	1.0	83
39	Cortical volume and 40-Hz auditory-steady-state responses in patients with schizophrenia and healthy controls. NeuroImage: Clinical, 2019, 22, 101732.	1.4	29
40	Electroencephalography-based endogenous brainâ€“computer interface for online communication with a completely locked-in patient. Journal of NeuroEngineering and Rehabilitation, 2019, 16, 18.	2.4	47
41	Development of an Online Home Appliance Control System Using Augmented Reality and an SSVEP-Based Brainâ€“Computer Interface. IEEE Access, 2019, 7, 163604-163614.	2.6	40
42	Mismatch Negativity and Cortical Thickness in Patients With Schizophrenia and Bipolar Disorder. Schizophrenia Bulletin, 2019, 45, 425-435.	2.3	20
43	Brain-Machine Interfaces. , 2019, , 1-4.		0
44	Can Anodal Transcranial Direct Current Stimulation Increase Steady-State Visual Evoked Potential Responses?. Journal of Korean Medical Science, 2019, 34, e285.	1.1	4
45	Techniques for Efficient Computation of Electric Fields Generated by Transcranial Direct-Current Stimulation. IEEE Transactions on Magnetics, 2018, 54, 1-5.	1.2	5
46	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.	2.6	21
47	Dysfunctional frontal lobe activity during inhibitory tasks in individuals with childhood trauma: An event-related potential study. NeuroImage: Clinical, 2018, 17, 935-942.	1.4	25
48	EEG-based brain-computer interface for real-time communication of patients in completely locked-in state. , 2018, , .		6
49	Abnormal cortical neural synchrony during working memory in schizophrenia. Clinical Neurophysiology, 2018, 129, 210-221.	0.7	28
50	Classification of Different Cognitive Load using Electroencephalogram(EEG): Preliminary Study. , 2018, , .		4
51	New Method for Pure-Tone Audiometry Using Electrooculogram: A Proof-of-Concept Study. Sensors, 2018, 18, 3651.	2.1	2
52	Prediction Method of Walking Speed at Swing Phase using Soleus Electromyogram Signal at Previous Stance Phase. , 2018, 2018, 2308-2311.		4
53	On the Feasibility of Using an Ear-EEG to Develop an Endogenous Brain-Computer Interface. Sensors, 2018, 18, 2856.	2.1	15
54	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

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55	Performance Prediction for a Near-Infrared Spectroscopy-Brainâ€“Computer Interface Using Resting-State Functional Connectivity of the Prefrontal Cortex. International Journal of Neural Systems, 2018, 28, 1850023.	3.2	14
56	Detection of Craving for Gaming in Adolescents with Internet Gaming Disorder Using Multimodal Biosignals. Sensors, 2018, 18, 102.	2.1	20
57	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.	1.3	70
58	Altered cortical functional network during behavioral inhibition in individuals with childhood trauma. Scientific Reports, 2018, 8, 10123.	1.6	9
59	Assessment of user voluntary engagement during neurorehabilitation using functional near-infrared spectroscopy: a preliminary study. Journal of NeuroEngineering and Rehabilitation, 2018, 15, 27.	2.4	15
60	EEG Spectral Analysis. Biological and Medical Physics Series, 2018, , 35-53.	0.3	6
61	Altered cortical functional network in major depressive disorder: A resting-state electroencephalogram study. NeuroImage: Clinical, 2018, 19, 1000-1007.	1.4	61
62	Changes in network connectivity during motor imagery and execution. PLoS ONE, 2018, 13, e0190715.	1.1	71
63	Altered Network Characteristics of Spike-Wave Discharges in Juvenile Myoclonic Epilepsy. Clinical EEG and Neuroscience, 2017, 48, 111-117.	0.9	20
64	Real-Time â€œEye-Writingâ€•Recognition Using Electrooculogram. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2017, 25, 37-48.	2.7	60
65	Brain Areas Responsible for Vigilance: An EEG Source Imaging Study. Brain Topography, 2017, 30, 343-351.	0.8	25
66	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.	1.2	38
67	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.	1.3	62
68	An emergency call system for patients in lockedâ€in state using an SSVEPâ€based brain switch. Psychophysiology, 2017, 54, 1632-1643.	1.2	36
69	Recent advances in biomagnetism and its applications. Biomedical Engineering Letters, 2017, 7, 183-184.	2.1	6
70	Performance enhancement of a brain-computer interface using high-density multi-distance NIRS. Scientific Reports, 2017, 7, 16545.	1.6	54
71	Disrupted cortical brain network in post-traumatic stress disorder patients: a resting-state electroencephalographic study. Translational Psychiatry, 2017, 7, e1231-e1231.	2.4	25
72	Global Electroencephalography Synchronization as a New Indicator for Tracking Emotional Changes of a Group of Individuals during Video Watching. Frontiers in Human Neuroscience, 2017, 11, 577.	1.0	9

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73	Estimation of Symptom Severity Scores for Patients with Schizophrenia Using ERP Source Activations during a Facial Affect Discrimination Task. Frontiers in Neuroscience, 2017, 11, 436.	1.4	0
74	Development of an electrooculogram-based eye-computer interface for communication of individuals with amyotrophic lateral sclerosis. Journal of NeuroEngineering and Rehabilitation, 2017, 14, 89.	2.4	25
75	Fast and Robust Real-Time Estimation of Respiratory Rate from Photoplethysmography. Sensors, 2016, 16, 1494.	2.1	18
76	Data-Driven User Feedback: An Improved Neurofeedback Strategy considering the Interindividual Variability of EEG Features. BioMed Research International, 2016, 2016, 1-7.	0.9	15
77	Integrative Evaluation of Automated Massage Combined with Thermotherapy: Physical, Physiological, and Psychological Viewpoints. BioMed Research International, 2016, 2016, 1-8.	0.9	7
78	Automatic Identification of Interictal Epileptiform Discharges in Secondary Generalized Epilepsy. Computational and Mathematical Methods in Medicine, 2016, 2016, 1-10.	0.7	4
79	Removing the Interdependency between Horizontal and Vertical Eye-Movement Components in Electrooculograms. Sensors, 2016, 16, 227.	2.1	14
80	Transient Global Amnesia Deteriorates the Network Efficiency of the Theta Band. PLoS ONE, 2016, 11, e0164884.	1.1	8
81	An unsupervised eye blink artifact detection method for real-time electroencephalogram processing. Physiological Measurement, 2016, 37, 401-417.	1.2	32
82	Auditory evoked potential could reflect emotional sensitivity and impulsivity. Scientific Reports, 2016, 6, 37683.	1.6	37
83	Motor imagery learning across a sequence ofÂtrials in stroke patients. Restorative Neurology and Neuroscience, 2016, 34, 635-645.	0.4	18
84	Toward more intuitive brainâ€“computer interfacing: classification of binary covert intentions using functional near-infrared spectroscopy. Journal of Biomedical Optics, 2016, 21, 091303.	1.4	48
85	Estimating Consumers' Subjective Preference Using Functional near Infrared Spectroscopy: A Feasibility Study. Journal of Near Infrared Spectroscopy, 2016, 24, 433-441.	0.8	10
86	Machine-learning-based diagnosis of schizophrenia using combined sensor-level and source-level EEG features. Schizophrenia Research, 2016, 176, 314-319.	1.1	120
87	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
88	Disruption of the Posterior Medial Network during the Acute Stage of Transient Global Amnesia. Clinical EEG and Neuroscience, 2016, 47, 69-74.	0.9	11
89	Detection of eye blink artifacts from single prefrontal channel electroencephalogram. Computer Methods and Programs in Biomedicine, 2016, 124, 19-30.	2.6	59
90	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.	0.7	4

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91	Brain Networks Responsible for Sense of Agency: An EEG Study. PLoS ONE, 2015, 10, e0135261.	1.1	39
92	Neurocinematics based on passive BCI: Decoding temporal change of emotional arousal during video watching from multi-channel EEG. , 2015, , .		1
93	Early visual processing deficits in patients with schizophrenia during spatial frequency-dependent facial affect processing. Schizophrenia Research, 2015, 161, 314-321.	1.1	25
94	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.	0.8	21
95	Development of a hybrid mental spelling system combining SSVEP-based brainâ€“computer interface and webcam-based eye tracking. Biomedical Signal Processing and Control, 2015, 21, 99-104.	3.5	54
96	EEG-based neurocinematics: challenges and prospects. Brain-Computer Interfaces, 2015, 2, 186-192.	0.9	4
97	Localization of epileptogenic zones in Lennoxâ€“Gastaut syndrome (LGS) using graph theoretical analysis of ictal intracranial EEG: A preliminary investigation. Brain and Development, 2015, 37, 29-36.	0.6	10
98	What is the optimal anodal electrode position for inducing corticomotor excitability changes in transcranial direct current stimulation?. Neuroscience Letters, 2015, 584, 347-350.	1.0	13
99	Correlation between Inter-Blink Interval and Episodic Encoding during Movie Watching. PLoS ONE, 2015, 10, e0141242.	1.1	23
100	Enhanced Template Matching Using Dynamic Positional Warping for Identification of Specific Patterns in Electroencephalogram. Journal of Applied Mathematics, 2014, 2014, 1-7.	0.4	20
101	Data-driven user feedback: An improved neurofeedback strategy considering individual variability of EEG features. , 2014, , .		1
102	Evaluation of various mental task combinations for near-infrared spectroscopy-based brain-computer interfaces. Journal of Biomedical Optics, 2014, 19, 077005.	1.4	85
103	Combined Use of Multiple Computational Intracranial EEG Analysis Techniques for the Localization of Epileptogenic Zones in Lennoxâ€“Gastaut Syndrome. Clinical EEG and Neuroscience, 2014, 45, 169-178.	0.9	12
104	Applied Mathematics in Biomedical Sciences and Engineering 2014. Journal of Applied Mathematics, 2014, 2014, 1-2.	0.4	0
105	Causal influence of epileptic network during spike-and-wave discharge in juvenile myoclonic epilepsy. Epilepsy Research, 2014, 108, 257-266.	0.8	30
106	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.	1.0	149
107	Source Activation of P300 Correlates with Negative Symptom Severity in Patients with Schizophrenia. Brain Topography, 2014, 27, 307-317.	0.8	30
108	Hemodynamic responses in rat brain during transcranial direct current stimulation: a functional near-infrared spectroscopy study. Biomedical Optics Express, 2014, 5, 1812.	1.5	29

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109	Disruptions in small-world cortical functional connectivity network during an auditory oddball paradigm task in patients with schizophrenia. Schizophrenia Research, 2014, 156, 197-203.	1.1	62
110	P1-185: ALTERATION OF CORTICAL NEURONAL ACTIVITY DURING THE ACUTE STAGE OF TRANSIENT GLOBAL AMNESIA. , 2014, 10, P367-P367.		0
111	COMETS: A MATLAB toolbox for simulating local electric fields generated by transcranial direct current stimulation (tDCS). Biomedical Engineering Letters, 2013, 3, 39-46.	2.1	86
112	Evaluation of feature extraction methods for EEG-based brainâ€“computer interfaces in terms of robustness to slight changes in electrode locations. Medical and Biological Engineering and Computing, 2013, 51, 571-579.	1.6	42
113	A new dual-frequency stimulation method to increase the number of visual stimuli for multi-class SSVEP-based brainâ€“computer interface (BCI). Brain Research, 2013, 1515, 66-77.	1.1	89
114	Implementation of a mental spelling system based on steady-state visual evoked potential (SSVEP). , 2013, , .		6
115	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.	5.1	36
116	Development of a hybrid mental speller combining EEG-based brain-computer interface and webcam-based eye-tracking. , 2013, 2013, 2240-2.		4
117	Source activation during facial emotion perception correlates with positive and negative symptoms scores of schizophrenia. , 2013, 2013, 6325-8.		3
118	Evaluation of feature extraction methods for motor imagery-based bcis in terms of robustness to slight changes of electrode locations. , 2013, , .		0
119	EEG-Based Brain-Computer Interfaces: A Thorough Literature Survey. International Journal of Human-Computer Interaction, 2013, 29, 814-826.	3.3	193
120	Neuroelectromagnetic imaging of correlated sources using a novel subspace penalized sparse learning. , 2013, , .		0
121	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.	1.1	19
122	“Eyes-closed” SSVEP-based BCI for binary communication of individuals with impaired oculomotor function. , 2013, , .		6
123	An image-guided transcranial direct current stimulation system: a pilot phantom study. Physiological Measurement, 2013, 34, 937-950.	1.2	21
124	Classification of visual stimuli with different spatial patterns for singleâ€frequency, multiâ€class SSVEP BCI. Electronics Letters, 2013, 49, 1374-1376.	0.5	10
125	Localization of epileptogenic zones in Lennoxâ€“Gastaut syndrome using frequency domain source imaging of intracranial electroencephalography: a preliminary investigation. Physiological Measurement, 2013, 34, 247-263.	1.2	8
126	Development of an “eyes-closed” brain-computer interface system for communication of patients with oculomotor impairment. , 2013, 2013, 2236-9.		1

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127	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
128	Neuroelectromagnetic imaging of correlated sources using a novel subspace penalized sparse learning. , 2013, , .		0
129	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
130	Classification of binary intentions for individuals with impaired oculomotor function: â€˜eyes-closedâ€™ SSVEP-based brainâ€“computer interface (BCI). Journal of Neural Engineering, 2013, 10, 026021.	1.8	45
131	Reduced Frontal P3a Amplitude in Migraine Patients during the Pain-Free Period. Journal of Clinical		

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145	Localization of ictal onset zones in Lennoxâ€“Gastaut syndrome (LGS) based on information theoretical time delay analysis of intracranial electroencephalography (iEEG). Epilepsy Research, 2012, 99, 78-86.	0.8	9
146	Development of an SSVEP-based BCI spelling system adopting a QWERTY-style LED keyboard. Journal of Neuroscience Methods, 2012, 208, 59-65.	1.3	225
147	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.	2.5	23
148	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.	0.9	32
149	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.	1.2	37
150	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.	0.8	28
151	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.	1.5	40
152	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.	2.2	11
153	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
154	An EEG-based real-time cortical functional connectivity imaging system. Medical and Biological Engineering and Computing, 2011, 49, 985-995.	1.6	11
155	Classification of selective attention to auditory stimuli: Toward vision-free brainâ€“computer interfacing. Journal of Neuroscience Methods, 2011, 197, 180-185.	1.3	106
156	A novel array-type transcranial direct current stimulation (tDCS) system for accurate focusing on targeted brain regions. , 2010, , .		0
157	Dysfunctional gamma-band activity during face structural processing in schizophrenia patients. Schizophrenia Research, 2010, 119, 191-197.	1.1	33
158	Estimation of directional coupling between cortical areas using Near-Infrared Spectroscopy (NIRS). Optics Express, 2010, 18, 5730.	1.7	29
159	Global synchronization index as a biological correlate of cognitive decline in Alzheimer's disease. Neuroscience Research, 2010, 66, 333-339.	1.0	37
160	Numerical computation of inductance of complex coil systems. International Journal of Applied Electromagnetics and Mechanics, 2009, 29, 15-23.	0.3	3
161	EEG-based real-time dynamic neuroimaging. , 2009, 2009, 5385-8.		3
162	An electrofusion chip with a cell delivery system driven by surface tension. Journal of Micromechanics and Microengineering, 2009, 19, 015004.	1.5	25

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163	Spatiotemporospectral characteristics of scalp ictal EEG in mesial temporal lobe epilepsy with hippocampal sclerosis. Brain Research, 2009, 1287, 206-219.	1.1	25
164	An Improved Particle Swarm Optimization Algorithm Mimicking Territorial Dispute Between Groups for Multimodal Function Optimization Problems. IEEE Transactions on Magnetics, 2008, 44, 1046-1049.	1.2	50
165	Point Collocation Mesh-Free Method Using FMLSRKM for Solving Axisymmetric Laplace Equation. IEEE Transactions on Magnetics, 2008, 44, 1234-1237.	1.2	9
166	A New Neuronal Electrical Source Model Considering Electrophysiology to Simulate Realistic Electroencephalography (EEG) Forward Signals. IEEE Transactions on Magnetics, 2008, 44, 1434-1437.	1.2	1
167	Decreased EEG synchronization and its correlation with symptom severity in Alzheimer's disease. Neuroscience Research, 2008, 62, 112-117.	1.0	70
168	Determination of optimal electrode positions for transcranial direct current stimulation (tDCS). Physics in Medicine and Biology, 2008, 53, N219-N225.	1.6	79
169	Analysis of a nanopositioning actuator using numerical and analytic methods. Smart Materials and Structures, 2008, 17, 025025.	1.8	8
170	Magnetoencephalography source localization using improved simplex method. Inverse Problems in Science and Engineering, 2008, 16, 499-510.	1.2	6
171	An EEG-based real-time cortical rhythmic activity monitoring system. Physiological Measurement, 2007, 28, 1101-1113.	1.2	17
172	Spatial resolution of EEG cortical source imaging revealed by localization of retinotopic organization in human primary visual cortex. Journal of Neuroscience Methods, 2007, 161, 142-154.	1.3	48
173	Source localization of periodic sharp wave complexes using independent component analysis in sporadic Creutzfeldtâ€“Jakob disease. Brain Research, 2007, 1143, 228-237.	1.1	21
174	Estimation of Brain Electrical Sources Using Multilevel Source Space Model. IEEE Transactions on Magnetics, 2007, 43, 1697-1700.	1.2	2
175	Estimation of Solution Accuracy From Leadfield Matrix in Magnetoencephalography. IEEE Transactions on Magnetics, 2007, 43, 1701-1704.	1.2	4
176	Reconstruction of Continuous and Focalized Brain Functional Source Images From Electroencephalography. IEEE Transactions on Magnetics, 2007, 43, 1709-1712.	1.2	5
177	Precise Estimation of Brain Electrical Sources Using Anatomically Constrained Area Source (ACAS) Localization. IEEE Transactions on Magnetics, 2007, 43, 1713-1716.	1.2	9
178	Dealing with mismatched fMRI activations in fMRI constrained EEG cortical source imaging: a simulation study assuming various mismatch types. Medical and Biological Engineering and Computing, 2007, 45, 79-90.	1.6	8
179	Functional cortical source imaging from simultaneously recorded ERP and fMRI. Journal of Neuroscience Methods, 2006, 157, 118-123.	1.3	26
180	Multimodal function optimization based on particle swarm optimization. IEEE Transactions on Magnetics, 2006, 42, 1095-1098.	1.2	169

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181	Improved magnetoencephalography source reconstruction considering anatomical connectivity of cortical sources. IEEE Transactions on Magnetics, 2006, 42, 1379-1382.	1.2	2
182	Enhancing accuracy in magneto-and electroencephalography focal source localization. IEEE Transactions on Magnetics, 2006, 42, 1387-1390.	1.2	5
183	A technique to consider mismatches between fMRI and EEG/MEG sources for fMRI-constrained EEG/MEG source imaging: a preliminary simulation study. Physics in Medicine and Biology, 2006, 51, 6005-6021.	1.6	8
184	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.	2.4	2
185	Magnetoencephalography cortical source imaging using spherical mapping. IEEE Transactions on Magnetics, 2005, 41, 1984-1987.	1.2	9
186	fMRI-constrained MEG source imaging and consideration of fMRI invisible sources. Human Brain Mapping, 2005, 26, 110-118.	1.9	29
187	Anatomically constrained dipole adjustment (ANACONDA) for accurate MEG/EEG focal source localizations. Physics in Medicine and Biology, 2005, 50, 4931-4953.	1.6	11
188	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
189	Three-dimensional constrained optimization of modular toroid-type SMES using co-evolutionary algorithm. International Journal of Applied Electromagnetics and Mechanics, 2004, 20, 105-114.	0.3	3
190	Multiresolutive Reconstruction of Magnetoencephalography Source Distribution. IEEE Transactions on Magnetics, 2004, 40, 1100-1103.	1.2	3
191	Efficient Technique for 3-D Finite Element Analysis of Skin Effect in Current-Carrying Conductors. IEEE Transactions on Magnetics, 2004, 40, 1326-1329.	1.2	15
192	Novel Multidipole Searching Technique for Magnetoencephalography Source Localization. IEEE Transactions on Magnetics, 2004, 40, 627-630.	1.2	3
193	A Novel Algorithm for Multimodal Function Optimization Based on Evolution Strategy. IEEE Transactions on Magnetics, 2004, 40, 1224-1227.	1.2	39
194	Hybrid genetic algorithm for electromagnetic topology optimization. IEEE Transactions on Magnetics, 2003, 39, 2163-2169.	1.2	101
195	Optimal design of gas circuit breaker for increasing the small current interruption capacity. IEEE Transactions on Magnetics, 2003, 39, 1749-1752.	1.2	12
196	Assessment criteria for MEG/EEG cortical patch tests. Physics in Medicine and Biology, 2003, 48, 2561-2573.	1.6	25
197	Electromagnetic topology optimization using large-step markov chain method with novel local optimization algorithm. International Journal of Applied Electromagnetics and Mechanics, 2003, 18, 259-267.	0.3	1
198	Characteristic analysis of planar motor using the volume integral equation method. International Journal of Applied Electromagnetics and Mechanics, 2003, 17, 259-269.	0.3	2

#	Article	IF	Citations
199	Optimization of A Microstrip Directional Coupler with High Performance Using Evolution Strategy. , 2002, , .		1
200	Novel technique for current density distribution analysis of solidly modeled coil. IEEE Transactions on Magnetics, 2002, 38, 505-508.	1.2	11
201	Optimization of the coil shape in deflection yoke considering practical coil winding processes. IEEE Transactions on Magnetics, 2002, 38, 1077-1080.	1.2	4
202	Magnetic field analysis of 2-D permanent magnet array for planar motor. IEEE Transactions on Magnetics, 2001, 37, 3762-3766.	1.2	72
203	Efficient technique for 3-D edge element method considering geometrical symmetry. IEEE Transactions on Magnetics, 2001, 37, 3190-3193.	1.2	1
204	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.	1.2	3
205	Characteristic analysis of synchronous PM type planar motor. , 0, , .		1
206	Optimal design of magnetic scale for linearizing field and force. , 0, , .		0
207	An Optimization Framework Using Sequential Approximation Model and Multimodal Evolution Strategy. , 0, , .		0
208	Estimation of Brain Electrical Sources using Multi-level Source Space Model. , 0, , .		0
209	Estimation of Solution Accuracy from Leadfield in Magnetoencephalography. , 0, , .		0
210	Reconstruction of Continuous and Focalized Brain Functional Source Images from Electroencephalography. , 0, , .		0