Sung Chan Jun

List of Publications by Citations

94 papers	1,700 citations	22 h-index	39 g-index
120 ext. papers	2,139 ext. citations	2.9 avg, IF	5.2 L-index

#	Paper	IF	Citations
94	Performance variation in motor imagery brain-computer interface: a brief review. *Journal of Neuroscience Methods*, **2015**, 243, 103-10	3	170
93	High theta and low alpha powers may be indicative of BCI-illiteracy in motor imagery. *PLoS ONE*, **2013**, 8, e80886	3.7	113
92	Exploring Neuro-Physiological Correlates of DriversTMental Fatigue Caused by Sleep Deprivation Using Simultaneous EEG, ECG, and fNIRS Data. *Frontiers in Human Neuroscience*, **2016**, 10, 219	3.3	99
91	EEG datasets for motor imagery brain-computer interface. *GigaScience*, **2017**, 6, 1-8	7.6	96
90	A review of brain-computer interface games and an opinion survey from researchers, developers and users. *Sensors*, **2014**, 14, 14601-33	3.8	94
89	Utilization of a combined EEG/NIRS system to predict driver drowsiness. *Scientific Reports*, **2017**, 7, 43933	4.9	64
88	Gamma band activity associated with BCI performance: simultaneous MEG/EEG study. *Frontiers in Human Neuroscience*, **2013**, 7, 848	3.3	55
87	An SLA-based cloud computing that facilitates resource allocation in the distributed data centers of a cloud provider. *Journal of Supercomputing*, **2013**, 64, 606-637	2.5	54
86	Frequency-difference EIT (fdEIT) using weighted difference and equivalent homogeneous admittivity: validation by simulation and tank experiment. *Physiological Measurement*, **2009**, 30, 1087-99	2.9	49
85	Spatiotemporal Bayesian inference dipole analysis for MEG neuroimaging data. *NeuroImage*, **2005**, 28, 84-98	7.9	49
84	Noise robustness analysis of sparse representation based classification method for non-stationary EEG signal classification. *Biomedical Signal Processing and Control*, **2015**, 21, 8-18	4.9	44
83	Multi-Modal Integration of EEG-fNIRS for Brain-Computer Interfaces - Current Limitations and Future Directions. *Frontiers in Human Neuroscience*, **2017**, 11, 503	3.3	42
82	Achieving a hybrid brain-computer interface with tactile selective attention and motor imagery. *Journal of Neural Engineering*, **2014**, 11, 066004	5	42
81	Interbrain phase synchronization during turn-taking verbal interaction-a hyperscanning study using simultaneous EEG/MEG. *Human Brain Mapping*, **2018**, 39, 171-188	5.9	37
80	Comparison of frequency difference reconstruction algorithms for the detection of acute stroke using EIT in a realistic head-shaped tank. *Physiological Measurement*, **2012**, 33, 767-86	2.9	36
79	Steady-State Somatosensory Evoked Potential for Brain-Computer Interface-Present and Future. *Frontiers in Human Neuroscience*, **2015**, 9, 716	3.3	30
78	Simple adaptive sparse representation based classification schemes for EEG based brain-computer interface applications. *Computers in Biology and Medicine*, **2015**, 66, 29-38	7	29

77	Validation of Computational Studies for Electrical Brain Stimulation With Phantom Head Experiments. *Brain Stimulation*, **2015**, 8, 914-25	5.1	28
76	Bayesian brain source imaging based on combined MEG/EEG and fMRI using MCMC. *NeuroImage*, **2008**, 40, 1581-94	7.9	28
75	Validation of weighted frequency-difference EIT using a three-dimensional hemisphere model and phantom. *Physiological Measurement*, **2011**, 32, 1663-80	2.9	26
74	Increasing session-to-session transfer in a brain-computer interface with on-site background noise acquisition. *Journal of Neural Engineering*, **2015**, 12, 066009	5	24
73	A multi-scale computational model of the effects of TMS on motor cortex. *F1000Research*, **2016**, 5, 1945	3.6	24
72	A multi-scale computational model of the effects of TMS on motor cortex. *F1000Research*, **2016**, 5, 1945	3.6	22
71	Relation between the electric field and activation of cortical neurons in transcranial electrical stimulation. *Brain Stimulation*, **2019**, 12, 275-289	5.1	22
70	Feasibility of approaches combining sensor and source features in brain-computer interface. *Journal of Neuroscience Methods*, **2012**, 204, 168-178	3	21
69	Probabilistic forward model for electroencephalography source analysis. *Physics in Medicine and Biology*, **2007**, 52, 5309-27	3.8	21
68	Effect of Anatomically Realistic Full-Head Model on Activation of Cortical Neurons in Subdural Cortical Stimulation-A Computational Study. *Scientific Reports*, **2016**, 6, 27353	4.9	20
67	User Ƃs Self-Prediction of Performance in Motor Imagery Brain-Computer Interface. *Frontiers in Human Neuroscience*, **2018**, 12, 59	3.3	18
66	Computational Study of Subdural Cortical Stimulation: Effects of Simulating Anisotropic Conductivity on Activation of Cortical Neurons. *PLoS ONE*, **2015**, 10, e0128590	3.7	17
65	Multi-Scale Computational Models for Electrical Brain Stimulation. *Frontiers in Human Neuroscience*, **2017**, 11, 515	3.3	16
64	Computational study on subdural cortical stimulation - the influence of the head geometry, anisotropic conductivity, and electrode configuration. *PLoS ONE*, **2014**, 9, e108028	3.7	15
63	Improving source detection and separation in a spatiotemporal Bayesian inference dipole analysis. *Physics in Medicine and Biology*, **2006**, 51, 2395-414	3.8	15
62	. *IEEE Access*, **2020**, 8, 74385-74400	3.5	13
61	P300 Speller Performance Predictor Based on RSVP Multi-feature. *Frontiers in Human Neuroscience*, **2019**, 13, 261	3.3	13
60	Frequency-difference electrical impedance tomography: Phantom imaging experiments. *Journal of Physics: Conference Series*, **2010**, 224, 012152	0.3	13

59	The Effect of a Transcranial Channel as a Skull/Brain Interface in High-Definition Transcranial Direct Current Stimulation-A Computational Study. *Scientific Reports*, **2017**, 7, 40612	4.9	11
58	A Compressive Sensing-Based Automatic Sleep-Stage Classification System With Radial Basis Function Neural Network. *IEEE Access*, **2019**, 7, 186499-186509	3.5	11
57	A wellness platform for stereoscopic 3D video systems using EEG-based visual discomfort evaluation technology. *Applied Ergonomics*, **2017**, 62, 158-167	4.2	10
56	Feasibility study for visual discomfort assessment on stereo images using EEG **2012**,		10
55	Fast accurate MEG source localization using a multilayer perceptron trained with real brain noise. *Physics in Medicine and Biology*, **2002**, 47, 2547-60	3.8	10
54	Super-Resolution for Improving EEG Spatial Resolution using Deep Convolutional Neural Network-Feasibility Study. *Sensors*, **2019**, 19,	3.8	10
53	Longitudinal changes in resting-state brain activity in a capsular infarct model. *Journal of Cerebral Blood Flow and Metabolism*, **2015**, 35, 11-9	7.3	9
52	Computational study of subdural and epidural cortical stimulation of the motor cortex. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2011**, 2011, 7226-9	0.9	9
51	Localization of coherent sources by simultaneous MEG and EEG beamformer. *Medical and Biological Engineering and Computing*, **2013**, 51, 1121-35	3.1	8
50	Calibration Time Reduction through Source Imaging in Brain Computer Interface (BCI). *Communications in Computer and Information Science*, **2011**, 269-273	0.3	8
49	. *IEEE Access*, **2019**, 7, 56297-56307	3.5	7
48	Use of Both Eyes-Open and Eyes-Closed Resting States May Yield a More Robust Predictor of Motor Imagery BCI Performance. *Electronics (Switzerland)*, **2020**, 9, 690	2.6	7
47	The computational study of subdural cortical stimulation: a quantitative analysis of voltage and current stimulation. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2012**, 2012, 867-70	0.9	7
46	Spatiotemporal noise covariance estimation from limited empirical magnetoencephalographic data. *Physics in Medicine and Biology*, **2006**, 51, 5549-64	3.8	7
45	Modeling spatiotemporal covariance for magnetoencephalography or electroencephalography source analysis. *Physical Review E*, **2007**, 75, 011928	2.4	7
44	Motor imagery based BCI classification via sparse representation of EEG signals **2011**,		6
43	A Systematic Review of Closed-Loop Feedback Techniques in Sleep Studies-Related Issues and Future Directions. *Sensors*, **2020**, 20,	3.8	5
42	Beamformer for simultaneous magnetoencephalography and electroencephalography analysis. *Journal of Applied Physics*, **2010**, 107, 09B315	2.5	5

41	Scanning Reduction Strategy in MEG/EEG Beamformer Source Imaging. *Journal of Applied Mathematics*, **2012**, 2012, 1-19	1.1	5
40	Fast robust subject-independent magnetoencephalographic source localization using an artificial neural network. *Human Brain Mapping*, **2005**, 24, 21-34	5.9	5
39	A Step-by-Step Tutorial for a Motor ImageryBased BCI **2018**, 445-460		5
38	Simultaneous EEG Acquisition System for Multiple Users: Development and Related Issues. *Sensors*, **2019**, 19,	3.8	4
37	Continuous Nondestructive Monitoring Method Using the Reconstructed Three-Dimensional Conductivity Images via GREIT for Tissue Engineering. *Journal of Applied Mathematics*, **2014**, 2014, 1-11	1.1	4
36	A comparative study of the 3D precentral gyrus model for unipolar and bipolar current stimulations. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2012**, 2012, 1892-5	0.9	4
35	A generalized spatiotemporal covariance model for stationary background in analysis of MEG data. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society*, **2006**, 2006, 3680-3		4
34	Poloidal field effects on fundamental minority ion cyclotron resonance heating in a tokamak plasma. *Physics of Plasmas*, **2000**, 7, 1467-1478	2.1	4
33	. *IEEE Access*, **2019**, 7, 8557-8569	3.5	3
32	Source Space Based Brain Computer Interface. *IFMBE Proceedings*, **2010**, 366-369	0.2	3
31	A note on fractional differences based on a linear combination between forward and backward differences. *Computers and Mathematics With Applications*, **2001**, 41, 373-378	2.7	3
30	Convergence analyses of the born iterative method and the distorted born iterative method. *Numerical Functional Analysis and Optimization*, **1999**, 20, 301-316	1	3
29	Herbal Extracts That Reduce Ocular Oxidative Stress May Enhance Attentive Performance in Humans. *Computational Intelligence and Neuroscience*, **2016**, 2016, 4292145	3	3
28	Cortical Responses and Shape Complexity of Stereoscopic Image - A Simultaneous EEG/MEG Study. *NeuroSignals*, **2016**, 24, 102-112	1.9	3
27	Oscillatory brain activity changes by anodal tDCS - An ECoG study on anesthetized beagles. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2016**, 2016, 5258-5261	0.9	3
26	Seeking RSVP Task Features Correlated with P300 Speller Performance **2018**,		3
25	The Neurophysiological Effect of Acoustic Stimulation with Real-time Sleep Spindle Detection. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2018**, 2018, 470-473	0.9	3
24	Stimulation Effect of Inter-subject Variability in tDCS-Multi-scale Modeling Study. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2018**, 2018, 3092-3095	0.9	3

23	Comparison of neuronal excitation between extruded slab partial head model and full head model in subdural cortical stimulation. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2013**, 2013, 2414	0.9	2
22	A computational study on effect of a transcranial channel as a skull/brain interface in the conventional rectangular patch-type transcranial direct current stimulation. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2017**, 2017, 1946-1949	0.9	2
21	MEG and EEG fusion in Bayesian frame **2010**,		2
20	Effect of realistic human head modelling on brain source distribution. *Electronics Letters*, **2012**, 48, 1095-1097	1.1	2
19	MEG source localization using an MLP with a distributed output representation. *IEEE Transactions on Biomedical Engineering*, **2003**, 50, 786-9	5	2
18	A Multi-Scale Computational Model of the effects of TMS on Motor Cortex		2
17	CANet: A Channel Attention Network to Determine Informative Multi-channel for Image Classification from Brain Signals. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2019**, 2019, 680-683	0.9	2
16	Event-Related Desynchronization (ERD) May Not be Correlated with Motor Imagery BCI Performance **2018**,		2
15	Negotiation-Based Flexible SLA Establishment with SLA-driven Resource Allocation in Cloud Computing **2013**,		1
14	Performances among various common spatial pattern methods for simultaneous MEG/EEG data **2009**,		1
13	Weighted frequency-difference EIT measurement of hemisphere phantom. *Journal of Physics: Conference Series*, **2010**, 224, 012059	0.3	1
12	Feasibility Study of EEG Super-Resolution Using Deep Convolutional Networks **2018**,		1
11	EEG Hyperscanning for Eight or more Persons - Feasibility Study for Emotion Recognition using Deep Learning Technique **2018**,		1
10	Effects of electrode displacement in high-definition transcranial direct current stimulation: A computational study. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2016**, 2016, 1618-1621	0.9	0
9	E-CoCS: Environment of computational simulator for cortical stimulation. *Biomedical Engineering Letters*, **2014**, 4, 186-192	3.6	0
8	Morphological Influence and Electric Field Direction's Influence on Activation of Cortical Neurons in Electrical Brain Stimulation: a Computational Study. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2020**, 2020, 2938-2941	0.9	0
7	Computational exploration of epidural cortical stimulation using a realistic head model. *Computers in Biology and Medicine*, **2021**, 135, 104290	7	0
6	Spindle-targeted acoustic stimulation may stabilize an ongoing nap.. *Journal of Sleep Research*, **2022**, e13583	5.8	0

5	Key factors in the cortical response to transcranial electrical Stimulations-A multi-scale modeling study.. *Computers in Biology and Medicine*, **2022**, 144, 105328	7	0
4	Cognitive responses and cortical oscillatory processing at various stereoscopic depths a simultaneous EEG/MEG study. *Journal of Integrative Neuroscience*, **2017**, 16, 255-273	1.5	
3	Is electric field strength deterministic in cortical neuronsTresponse to transcranial electrical stimulation?. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2021**, 2021, 6025-6028	0.9	
2	Interactive Scientific Visualization of High-resolution Brain Imagery Over Networked Tiled Display **2010**, 125-136		
1	How Much Features in Brain-Computer Interface Are Discriminative? Quantitative Measure by Relative Entropy. *Communications in Computer and Information Science*, **2011**, 274-278	0.3	