

# Jong-Hwan Lee

## List of Publications by Year in descending order

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Version: 2024-02-01

87  
papers

3,569  
citations

293460

24  
h-index

162838

57  
g-index

92  
all docs

92  
docs citations

92  
times ranked

5681  
citing authors

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | Acoustic Simulation for Transcranial Focused Ultrasound Using GAN-Based Synthetic CT. IEEE Journal of Biomedical and Health Informatics, 2022, 26, 161-171.  | 3.9 | 13        |
| 2  | Electronic Cigarette Vaping Did Not Enhance the Neural Process of Working Memory for Regular Cigarette Smokers. Frontiers in Human Neuroscience, 2022, 16, 817538.   | 1.0 | 0         |
| 3  | Spectral dynamic causal modeling of mindfulness, mind-wandering, and resting-state in the triple network using fMRI. NeuroReport, 2022, 33, 221-226.   | 0.6 | 2         |
| 4  | Cigarette craving modulation is more feasible than resistance modulation for heavy cigarette smokers: empirical evidence from functional MRI data. NeuroReport, 2021, 32, 762-770.   | 0.6 | 0         |
| 5  | Predictors of real-time fMRI neurofeedback performance and improvement – A machine learning mega-analysis. NeuroImage, 2021, 237, 118207.  | 2.1 | 22        |
| 6  | Mixed-effects multilevel analysis followed by canonical correlation analysis is an effective <sc>fMRI</sc> tool for the investigation of idiosyncrasies. Human Brain Mapping, 2021, 42, 5374-5396.   | 1.9 | 6         |
| 7  | Test-retest reliability of spatial patterns from resting-state functional MRI using the restricted Boltzmann machine and hierarchically organized spatial patterns from the deep belief network. Journal of Neuroscience Methods, 2020, 330, 108451. | 1.3 | 6         |
| 8  | Personalized prediction of smartphone-based psychotherapeutic micro-intervention success using machine learning. Journal of Affective Disorders, 2020, 264, 430-437.   | 2.0 | 16        |
| 9  | fMRI volume classification using a 3D convolutional neural network robust to shifted and scaled neuronal activations. NeuroImage, 2020, 223, 117328.   | 2.1 | 17        |
| 10 | Functional magnetic resonance imaging multivoxel pattern analysis reveals neuronal substrates for collaboration and competition with myopic and predictive strategic reasoning. Human Brain Mapping, 2020, 41, 4314-4331.                            | 1.9 | 3         |
| 11 | Can we predict real-time <sc>fMRI</sc> neurofeedback learning success from pretraining brain activity?. Human Brain Mapping, 2020, 41, 3839-3854.  | 1.9 | 27        |
| 12 | A naturalistic viewing paradigm using 360° panoramic video clips and real-time field-of-view changes with eye-gaze tracking. NeuroImage, 2020, 216, 116617.  | 2.1 | 16        |
| 13 | Deep learning methods and applications in neuroimaging. Journal of Neuroscience Methods, 2020, 339, 108718.  | 1.3 | 6         |
| 14 | Mediation analysis of triple networks revealed functional feature of mindfulness from real-time fMRI neurofeedback. NeuroImage, 2019, 195, 409-432.  | 2.1 | 32        |
| 15 | Deep neural network predicts emotional responses of the human brain from functional magnetic resonance imaging. NeuroImage, 2019, 186, 607-627.  | 2.1 | 25        |
| 16 | Visual perceptual learning modulates decision network in the human brain: The evidence from psychophysics, modeling, and functional magnetic resonance imaging. Journal of Vision, 2018, 18, 9.  | 0.1 | 14        |
| 17 | Gamma EEG Correlates of Haptic Preferences for a Dial Interface. IEEE Access, 2018, 6, 22324-22331.  | 2.6 | 10        |
| 18 | 3D convolutional neural network for feature extraction and classification of fMRI volumes. , 2018, , .   |     | 8         |

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|----|--|-----|-----------|
| 19 | Task-specific feature extraction and classification of fMRI volumes using a deep neural network initialized with a deep belief network: Evaluation using sensorimotor tasks. <i>NeuroImage</i> , 2017, 145, 314-328.   | 2.1 | 100       |
| 20 | Evaluation of weight sparsity regularization schemes of deep neural networks applied to functional neuroimaging data. , 2017, , .  |     | 1         |
| 21 | Smartphone-Based Psychotherapeutic Micro-Interventions to Improve Mood in a Real-World Setting. <i>Frontiers in Psychology</i> , 2016, 7, 1112.  | 1.1 | 58        |
| 22 | 5th International Symposium on Focused Ultrasound. <i>Journal of Therapeutic Ultrasound</i> , 2016, 4, .   | 2.2 | 1         |
| 23 | Evaluation of weight sparsity control during autoencoder training of resting-state fMRI using non-zero ratio and hoyer's sparseness. , 2016, , .   |     | 1         |
| 24 | Transcranial focused ultrasound stimulation of human primary visual cortex. <i>Scientific Reports</i> , 2016, 6, 34026.  | 1.6 | 262       |
| 25 | EEG response varies with lesion location in patients with chronic stroke. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2016, 13, 21.  | 2.4 | 61        |
| 26 | How stress triggers itch: a preliminary study of the mechanism of stress-induced pruritus using fMRI. <i>International Journal of Dermatology</i> , 2016, 55, 434-442.   | 0.5 | 28        |
| 27 | Deep neural network with weight sparsity control and pre-training extracts hierarchical features and enhances classification performance: Evidence from whole-brain resting-state functional connectivity patterns of schizophrenia. <i>NeuroImage</i> , 2016, 124, 127-146. | 2.1 | 295       |
| 28 | The Inclusion of Functional Connectivity Information into fMRI-based Neurofeedback Improves Its Efficacy in the Reduction of Cigarette Cravings. <i>Journal of Cognitive Neuroscience</i> , 2015, 27, 1552-1572.   | 1.1 | 85        |
| 29 | Desynchronization of the mu oscillatory activity during motor imagery: A preliminary EEG-fMRI study. , 2015, , .   |     | 0         |
| 30 | Effects of spatial smoothing and physiological noise removal on brain activity with cigarette craving. , 2015, , .   |     | 0         |
| 31 | Hub of functional network changes from real-time fMRI neurofeedback on heavy smokers. , 2015, , .  |     | 0         |
| 32 | Multivariate approach toward classification of competition and collaboration: An fMRI study. , 2015, , .   |     | 0         |
| 33 | Multiplex diagnosis of viral infectious diseases (AIDS, hepatitis C, and hepatitis A) based on point of care lateral flow assay using engineered proteinticles. <i>Biosensors and Bioelectronics</i> , 2015, 69, 213-225.  | 5.3 | 59        |
| 34 | Recursive approach of EEG-segment-based principal component analysis substantially reduces cryogenic pump artifacts in simultaneous EEG-fMRI data. <i>NeuroImage</i> , 2015, 104, 437-451.   | 2.1 | 23        |
| 35 | A preliminary study on neural basis of strategic reasoning to social decision making. , 2014, , .  |     | 0         |
| 36 | Functional network connectivity to enhance speech perception performance: A preliminary fMRI study. , 2014, , .  |     | 0         |

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|----|--|------|-----------|
| 37 | A stress-responsive Escherichia coli protein, CysQ is a highly effective solubility enhancer for aggregation-prone heterologous proteins. Protein Expression and Purification, 2014, 101, 91-98.                   | 0.6  | 4         |
| 38 | Effects of non-neuronal components for functional connectivity analysis from resting-state functional MRI toward automated diagnosis of schizophrenia. , 2014, , .   |      | 0         |
| 39 | Unsupervised learning toward brain imaging data analysis: cigarette craving and resistance related neuronal activations from functional magnetic resonance imaging data analysis. , 2014, , .                      |      | 0         |
| 40 | Integration of structural and functional magnetic resonance imaging improves mild cognitive impairment detection. Magnetic Resonance Imaging, 2013, 31, 718-732.   | 1.0  | 19        |
| 41 | Performance evaluation of nonnegative matrix factorization algorithms to estimate task-related neuronal activities from fMRI data. Magnetic Resonance Imaging, 2013, 31, 466-476.                                  | 1.0  | 11        |
| 42 | Hippocampusâ€™ precuneus functional connectivity as an early sign of Alzheimer's disease: A preliminary study using structural and functional magnetic resonance imaging data. Brain Research, 2013, 1495, 18-29.  | 1.1  | 48        |
| 43 | Proteinticle Engineering for Accurate 3D Diagnosis. ACS Nano, 2013, 7, 10879-10886.  | 7.3  | 33        |
| 44 | Neuronal Mechanism of Speech Hearing: An fMRI Study. Lecture Notes in Computer Science, 2013, , 184-190.   | 1.0  | 0         |
| 45 | Modulated Neuronal Activity and Connectivity of Smoking Resist Using Real-Time fMRI Neurofeedback. Lecture Notes in Computer Science, 2013, , 9-16.  | 1.0  | 0         |
| 46 | A Preliminary Study on Neural Basis of Collaboration as Mediated by the Level of Reasoning. Lecture Notes in Computer Science, 2013, , 50-56.  | 1.0  | 0         |
| 47 | Are there brain regions related to speech perception? Evidence from a functional MRI study. , 2012, , .  |      | 0         |
| 48 | Mesocorticolimbic hyperactivity of deprived smokers and brain imaging. NeuroReport, 2012, 23, 1039-1043.   | 0.6  | 9         |
| 49 | Pseudo-real fMRI data generation and its utility toward quantitative evaluation of analytical methods. , 2012, , .   |      | 0         |
| 50 | Investigation of smoking related features in spatio-spectral domain on resting-state fMRI data using nonnegative matrix factorization. , 2012, , .   |      | 1         |
| 51 | Brain hypoactivation, autonomic nervous system dysregulation, and gonadal hormones in depression: A preliminary study. Neuroscience Letters, 2012, 514, 57-61.   | 1.0  | 42        |
| 52 | Real-time fMRI-based neurofeedback reinforces causality of attention networks. Neuroscience Research, 2012, 72, 347-354.   | 1.0  | 48        |
| 53 | Biomedical Applications: A Novel Bioassay Platform Using Ferritinâ€™Based Nanoprobe Hydrogel (Adv.) Tj ETQq1 1 0,784314 rgBT /Ov   | 11.1 | 8         |
| 54 | Iterative approach of dual regression with a sparse prior enhances the performance of independent component analysis for group functional magnetic resonance imaging (fMRI) data. NeuroImage, 2012, 63, 1864-1889. | 2.1  | 21        |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 55 | Group inference of default-mode networks from functional magnetic resonance imaging data: comparison of random- and mixed-effects group statistics. <i>International Journal of Imaging Systems and Technology</i> , 2012, 22, 121-131. | 2.7 | 3         |
| 56 | Automated Classification of Discrete Human Thoughts Using Functional Magnetic Resonance Imaging (fMRI): Comparison between Voxel-Based and Atlas-Based Feature Selection Methods. , 2011, , .   |     | 0         |
| 57 | Focused ultrasound modulates region-specific brain activity. <i>NeuroImage</i> , 2011, 56, 1267-1275.   | 2.1 | 494       |
| 58 | Integration of Structural and Functional MRI Features Improves Mild Cognitive Impairment (MCI) Detection. , 2011, , .   |     | 0         |
| 59 | Are posterior default-mode networks more robust than anterior default-mode networks? Evidence from resting-state fMRI data analysis. <i>Neuroscience Letters</i> , 2011, 498, 57-62.  | 1.0 | 27        |
| 60 | Stress response circuitry hypoactivation related to hormonal dysfunction in women with major depression. <i>Journal of Affective Disorders</i> , 2011, 131, 379-387.  | 2.0 | 81        |
| 61 | Investigation of spectrally coherent resting-state networks using non-negative matrix factorization for functional MRI data. <i>International Journal of Imaging Systems and Technology</i> , 2011, 21, 211-222.                        | 2.7 | 20        |
| 62 | A constrained alternating least squares nonnegative matrix factorization algorithm enhances task-related neuronal activity detection from single subject's fMRI data. , 2011, , .   |     | 4         |
| 63 | Reproducibility and variability of default-mode networks from functional MRI: Comparison between random- and mixed-effect group statistics. , 2011, , .   |     | 0         |
| 64 | Functional Connectivity Analysis with Voxel-Based Morphometry for Diagnosis of Mild Cognitive Impairment. <i>Lecture Notes in Computer Science</i> , 2011, , 306-313.   | 1.0 | 1         |
| 65 | A Three-Dimensional Nanostructured Array of Protein Nanoparticles. <i>Advanced Functional Materials</i> , 2010, 20, 4055-4061.  | 7.8 | 18        |
| 66 | On-demand three-dimensional freeform fabrication of multi-layered hydrogel scaffold with fluidic channels. <i>Biotechnology and Bioengineering</i> , 2010, 105, 1178-1186.  | 1.7 | 236       |
| 67 | Mind reading: An automated classification of thought processes from imagery fMRI data. , 2010, , .  |     | 2         |
| 68 | On-demand three-dimensional freeform fabrication of multi-layered hydrogel scaffold with fluidic channels. <i>Biotechnology and Bioengineering</i> , 2010, , n/a-n/a.   | 1.7 | 1         |
| 69 | Application of Independent Component Analysis for the Data Mining of Simultaneous EEG-fMRI: Preliminary Experience on Sleep Onset. <i>International Journal of Neuroscience</i> , 2009, 119, 1118-1136.                                 | 0.8 | 13        |
| 70 | Automated classification of fMRI data employing trial-based imagery tasks. <i>Medical Image Analysis</i> , 2009, 13, 392-404.   | 7.0 | 25        |
| 71 | Multi-layered culture of human skin fibroblasts and keratinocytes through three-dimensional freeform fabrication. <i>Biomaterials</i> , 2009, 30, 1587-1595.  | 5.7 | 502       |
| 72 | Brain-machine interface via real-time fMRI: Preliminary study on thought-controlled robotic arm. <i>Neuroscience Letters</i> , 2009, 450, 1-6.  | 1.0 | 141       |

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|----|---|-----|-----------|
| 73 | Three-dimensional bioprinting of rat embryonic neural cells. <i>NeuroReport</i> , 2009, 20, 798-803.  | 0.6 | 154       |
| 74 | Neurofeedback fMRI-mediated learning and consolidation of regional brain activation during motor imagery. <i>International Journal of Imaging Systems and Technology</i> , 2008, 18, 69-78. | 2.7 | 94        |
| 75 | Independent vector analysis (IVA) for group fMRI processing of subcortical area. <i>International Journal of Imaging Systems and Technology</i> , 2008, 18, 29-41.                          | 2.7 | 7         |
| 76 | Atlas-based multichannel monitoring of functional MRI signals in real-time: Automated approach. <i>Human Brain Mapping</i> , 2008, 29, 157-166.   | 1.9 | 18        |
| 77 | Binaural semi-blind dereverberation of noisy convoluted speech signals. <i>Neurocomputing</i> , 2008, 72, 636-642.  | 3.5 | 7         |
| 78 | Independent vector analysis (IVA): Multivariate approach for fMRI group study. <i>NeuroImage</i> , 2008, 40, 86-109.  | 2.1 | 135       |
| 79 | Functional magnetic resonance imaging-mediated learning of increased activity in auditory areas. <i>NeuroReport</i> , 2007, 18, 1915-1920.  | 0.6 | 33        |
| 80 | REPRODUCIBILITY OF TRIAL-BASED FUNCTIONAL MRI ON MOTOR IMAGERY. <i>International Journal of Neuroscience</i> , 2007, 117, 215-227.  | 0.8 | 22        |
| 81 | Multivariate Analysis of fMRI Group Data Using Independent Vector Analysis. , 2007, , 633-640.  |     | 3         |
| 82 | MODELING AUDITORY PATHWAY FOR INTELLIGENT INFORMATION ACQUISITION. <i>International Journal of Information Acquisition</i> , 2004, 01, 345-356.   | 0.2 | 0         |
| 83 | On the Efficient Speech Feature Extraction Based on Independent Component Analysis. <i>Neural Processing Letters</i> , 2002, 15, 235-245.   | 2.0 | 33        |
| 84 | Speech enhancement with MAP estimation and ICA-based speech features. <i>Electronics Letters</i> , 2000, 36, 1506.  | 0.5 | 11        |
| 85 | Speech feature extraction using independent component analysis. , 0, , .  |     | 40        |
| 86 | Does fMRI neurofeedback in the context of stress influence mood and arousal? A randomised controlled trial with parallel group design. <i>F1000Research</i> , 0, 8, 1031.                   | 0.8 | 0         |
| 87 | Does fMRI neurofeedback in the context of stress influence mood and arousal? A randomised controlled trial with parallel group design. <i>F1000Research</i> , 0, 8, 1031.                   | 0.8 | 0         |