

# Seung-Schik Yoo

## List of Publications by Year in descending order

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Version: 2024-02-01

121  
papers

11,231  
citations

38660

50  
h-index

30848

102  
g-index

121  
all docs

121  
docs citations

121  
times ranked

10555  
citing authors

#	ARTICLE	IF	CITATIONS
1	Transcutaneous application of ultrasound enhances the effects of finasteride in a murine model of androgenic alopecia. <i>Ultrasonography</i> , 2022, 41, 382-393.	1.0	3
2	Short-Term Efficacy of Transcranial Focused Ultrasound to the Hippocampus in Alzheimer's Disease: A Preliminary Study. <i>Journal of Personalized Medicine</i> , 2022, 12, 250.	1.1	12
3	Neuromodulation Using Transcranial Focused Ultrasound on the Bilateral Medial Prefrontal Cortex. <i>Journal of Clinical Medicine</i> , 2022, 11, 3809.	1.0	9
4	Safety Review and Perspectives of Transcranial Focused Ultrasound Brain Stimulation. <i>Brain &amp; Neurorehabilitation</i> , 2021, 14, .	0.4	16
5	Cigarette craving modulation is more feasible than resistance modulation for heavy cigarette smokers: empirical evidence from functional MRI data. <i>NeuroReport</i> , 2021, 32, 762-770.	0.6	0
6	Focused ultrasound enhances the anesthetic effects of topical lidocaine in rats. <i>BMC Anesthesiology</i> , 2021, 21, 158.	0.7	2
7	Transcranial focused ultrasound modulates cortical and thalamic motor activity in awake sheep. <i>Scientific Reports</i> , 2021, 11, 19274.	1.6	17
8	A pilot clinical study of low-intensity transcranial focused ultrasound in Alzheimer's disease. <i>Ultrasonography</i> , 2021, 40, 512-519.	1.0	29
9	Scalable visible light 3D printing and bioprinting using an organic light-emitting diode microdisplay. <i>IScience</i> , 2021, 24, 103372.	1.9	12
10	Personalized prediction of smartphone-based psychotherapeutic micro-intervention success using machine learning. <i>Journal of Affective Disorders</i> , 2020, 264, 430-437.	2.0	16
11	Localized Disruption of Blood Albumin's Phenytoin Binding Using Transcranial Focused Ultrasound. <i>Ultrasound in Medicine and Biology</i> , 2020, 46, 1986-1997.	0.7	12
12	Therapeutic Potentials of Localized Blood-Brain Barrier Disruption by Noninvasive Transcranial Focused Ultrasound: A Technical Review. <i>Journal of Clinical Neurophysiology</i> , 2020, 37, 104-117.	0.9	19
13	Localized Blood-Brain Barrier Opening in Ovine Model Using Image-Guided Transcranial Focused Ultrasound. <i>Ultrasound in Medicine and Biology</i> , 2019, 45, 2391-2404.	0.7	20
14	Effects of sonication parameters on transcranial focused ultrasound brain stimulation in an ovine model. <i>PLoS ONE</i> , 2019, 14, e0224311.	1.1	75
15	Mediation analysis of triple networks revealed functional feature of mindfulness from real-time fMRI neurofeedback. <i>NeuroImage</i> , 2019, 195, 409-432.	2.1	32
16	Multi-resolution simulation of focused ultrasound propagation through ovine skull from a single-element transducer. <i>Physics in Medicine and Biology</i> , 2018, 63, 105001.	1.6	38
17	Focused ultrasound brain stimulation to anesthetized rats induces long-term changes in somatosensory evoked potentials. <i>International Journal of Imaging Systems and Technology</i> , 2018, 28, 106-112.	2.7	38
18	Bioprinting of biomimetic skin containing melanocytes. <i>Experimental Dermatology</i> , 2018, 27, 453-459.	1.4	135

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19	Technical Review and Perspectives of Transcranial Focused Ultrasound Brain Stimulation for Neurorehabilitation. <i>Brain &amp; Neurorehabilitation</i> , 2018, 11, .	0.4	15
20	Transcranial focused ultrasound stimulation of motor cortical areas in freely-moving awake rats. <i>BMC Neuroscience</i> , 2018, 19, 57.	0.8	70
21	FUS-Mediated Image-Guided Neuromodulation of the Brain. , 2017, , 443-456.		1
22	Non-invasive transmission of sensorimotor information in humans using an EEG/focused ultrasound brain-to-brain interface. <i>PLoS ONE</i> , 2017, 12, e0178476.	1.1	49
23	Smartphone-Based Psychotherapeutic Micro-Interventions to Improve Mood in a Real-World Setting. <i>Frontiers in Psychology</i> , 2016, 7, 1112.	1.1	58
24	Simultaneous acoustic stimulation of human primary and secondary somatosensory cortices using transcranial focused ultrasound. <i>BMC Neuroscience</i> , 2016, 17, 68.	0.8	129
25	Transcranial focused ultrasound stimulation of human primary visual cortex. <i>Scientific Reports</i> , 2016, 6, 34026.	1.6	262
26	Image-Guided Focused Ultrasound-Mediated Regional Brain Stimulation in Sheep. <i>Ultrasound in Medicine and Biology</i> , 2016, 42, 459-470.	0.7	173
27	Functional and diffusion tensor magnetic resonance imaging of the sheep brain. <i>BMC Veterinary Research</i> , 2015, 11, 262.	0.7	23
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	3D-printed biological organs: medical potential and patenting opportunity. <i>Expert Opinion on Therapeutic Patents</i> , 2015, 25, 507-511.	2.4	44
30	Image-Guided Transcranial Focused Ultrasound Stimulates Human Primary Somatosensory Cortex. <i>Scientific Reports</i> , 2015, 5, 8743.	1.6	298
31	Focused Low-Intensity Pulsed Ultrasound Enhances Bone Regeneration in Rat Calvarial Bone Defect through Enhancement of Cell Proliferation. <i>Ultrasound in Medicine and Biology</i> , 2015, 41, 999-1007.	0.7	27
32	Suppression of EEG visual-evoked potentials in rats through neuromodulatory focused ultrasound. <i>NeuroReport</i> , 2015, 26, 211-215.	0.6	114
33	Generation of 3-D glioblastoma-vascular niche using 3-D bioprinting. , 2015, , .		16
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	Endoscopic capsule robots using reconfigurable modular assembly: A pilot study. <i>International Journal of Imaging Systems and Technology</i> , 2014, 24, 359-365.	2.7	16
36	Evaluation of polyvinyl alcohol cryogel as an acoustic coupling medium for low&intensity transcranial focused ultrasound. <i>International Journal of Imaging Systems and Technology</i> , 2014, 24, 332-338.	2.7	24

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37	Creation of various skin sensations using pulsed focused ultrasound: Evidence for functional neuromodulation. <i>International Journal of Imaging Systems and Technology</i> , 2014, 24, 167-174.	2.7	27
38	Estimation of the spatial profile of neuromodulation and the temporal latency in motor responses induced by focused ultrasound brain stimulation. <i>NeuroReport</i> , 2014, 25, 475-479.	0.6	63
39	Focused Ultrasound-mediated Non-invasive Brain Stimulation: Examination of Sonication Parameters. <i>Brain Stimulation</i> , 2014, 7, 748-756.	0.7	239
40	Design and Fabrication of Human Skin by Three-Dimensional Bioprinting. <i>Tissue Engineering - Part C: Methods</i> , 2014, 20, 473-484.	1.1	599
41	Generation of Multi-scale Vascular Network System Within 3D Hydrogel Using 3D Bio-printing Technology. <i>Cellular and Molecular Bioengineering</i> , 2014, 7, 460-472.	1.0	292
42	Creating perfused functional vascular channels using 3D bio-printing technology. <i>Biomaterials</i> , 2014, 35, 8092-8102.	5.7	410
43	Pulsed application of focused ultrasound to the LI4 elicits deqi sensations: Pilot study. <i>Complementary Therapies in Medicine</i> , 2014, 22, 592-600.	1.3	16
44	PET/CT imaging evidence of FUS-mediated (18)F-FDG uptake changes in rat brain. <i>Medical Physics</i> , 2013, 40, 033501.	1.6	32
45	Prototype modular capsule robots for capsule endoscopies. , 2013, , .		19
46	Therapeutic potential of autologous mesenchymal stem cells derived from synovial fluid in patients with degenerative arthritis. <i>Animal Cells and Systems</i> , 2013, 17, 315-324.	0.8	5
47	Non-Invasive Brain-to-Brain Interface (BBI): Establishing Functional Links between Two Brains. <i>PLoS ONE</i> , 2013, 8, e60410.	1.1	88
48	Noninvasive Transcranial Stimulation of Rat Abducens Nerve by Focused Ultrasound. <i>Ultrasound in Medicine and Biology</i> , 2012, 38, 1568-1575.	0.7	117
49	Real-time fMRI-based neurofeedback reinforces causality of attention networks. <i>Neuroscience Research</i> , 2012, 72, 347-354.	1.0	48
50	Tissue Reconstruction: Cellular Hydrogel Biopaper for Patterned 3D Cell Culture and Modular Tissue Reconstruction ( <i>Adv. Healthcare Mater.</i> 5/2012). <i>Advanced Healthcare Materials</i> , 2012, 1, 530-530.	3.9	0
51	Image-guided navigation of single-element focused ultrasound transducer. <i>International Journal of Imaging Systems and Technology</i> , 2012, 22, 177-184.	2.7	38
52	Cellular Hydrogel Biopaper for Patterned 3D Cell Culture and Modular Tissue Reconstruction. <i>Advanced Healthcare Materials</i> , 2012, 1, 635-639.	3.9	33
53	The integration of 3-D cell printing and mesoscopic fluorescence molecular tomography of vascular constructs within thick hydrogel scaffolds. <i>Biomaterials</i> , 2012, 33, 5325-5332.	5.7	147
54	Transcranial Focused Ultrasound to the Thalamus Is Associated with Reduced Extracellular GABA Levels in Rats. <i>Neuropsychobiology</i> , 2012, 65, 153-160.	0.9	76

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55	Facile and Biocompatible Fabrication of Chemically Solâˆ™Gel Transitional Hydrogel Free-Standing Microarchitectures. <i>Biomacromolecules</i> , 2011, 12, 14-18.	2.6	16
56	Focused ultrasound modulates region-specific brain activity. <i>NeuroImage</i> , 2011, 56, 1267-1275.	2.1	494
57	Development of an immunocompetent human skin tissue model using three dimensional (3D) freeform fabrication. , 2011, , .		0
58	Transcranial focused ultrasound to the thalamus alters anesthesia time in rats. <i>NeuroReport</i> , 2011, 22, 783-787.	0.6	107
59	A review of low-intensity focused ultrasound pulsation. <i>Brain Stimulation</i> , 2011, 4, 125-136.	0.7	332
60	Focused ultrasound-mediated suppression of chemically-induced acute epileptic EEG activity. <i>BMC Neuroscience</i> , 2011, 12, 23.	0.8	226
61	Investigation of spectrally coherent restingâ€state networks using nonâ€negative matrix factorization for functional MRI data. <i>International Journal of Imaging Systems and Technology</i> , 2011, 21, 211-222.	2.7	20
62	Focused ultrasound modulates the level of cortical neurotransmitters: Potential as a new functional brain mapping technique. <i>International Journal of Imaging Systems and Technology</i> , 2011, 21, 232-240.	2.7	72
63	Sleep Deprivation Amplifies Reactivity of Brain Reward Networks, Biasing the Appraisal of Positive Emotional Experiences. <i>Journal of Neuroscience</i> , 2011, 31, 4466-4474.	1.7	379
64	Neuroimaging-based approaches in the brainâ€computer interface. <i>Trends in Biotechnology</i> , 2010, 28, 552-560.	4.9	114
65	Onâ€demand threeâ€dimensional freeform fabrication of multiâ€layered hydrogel scaffold with fluidic channels. <i>Biotechnology and Bioengineering</i> , 2010, 105, 1178-1186.	1.7	236
66	The Unrested Resting Brain: Sleep Deprivation Alters Activity within the Default-mode Network. <i>Journal of Cognitive Neuroscience</i> , 2010, 22, 1637-1648.	1.1	130
67	Bio-printing of collagen and VEGF-releasing fibrin gel scaffolds for neural stem cell culture. <i>Experimental Neurology</i> , 2010, 223, 645-652.	2.0	343
68	Vasculature formation using three-dimensional cell printing technology. , 2010, , .		0
69	Mind reading: An automated classification of thought processes from imagery fMRI data. , 2010, , .		2
70	Application of Independent Component Analysis for the Data Mining of Simultaneous Eegâ€fMRI: Preliminary Experience on Sleep Onset. <i>International Journal of Neuroscience</i> , 2009, 119, 1118-1136.	0.8	13
71	Engineered 3D tissue models for cell-laden microfluidic channels. <i>Analytical and Bioanalytical Chemistry</i> , 2009, 395, 185-193.	1.9	59
72	Positive contrast visualization for cellular magnetic resonance imaging using susceptibility-weighted echo-time encoding. <i>Magnetic Resonance Imaging</i> , 2009, 27, 601-610.	1.0	19

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73	Automated classification of fMRI data employing trial-based imagery tasks. <i>Medical Image Analysis</i> , 2009, 13, 392-404.	7.0	25
74	Multi-layered culture of human skin fibroblasts and keratinocytes through three-dimensional freeform fabrication. <i>Biomaterials</i> , 2009, 30, 1587-1595.	5.7	502
75	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
76	Three-dimensional bioprinting of rat embryonic neural cells. <i>NeuroReport</i> , 2009, 20, 798-803.	0.6	154
77	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
78	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
79	Composite MR contrast agents for conditional cell-labeling. <i>International Journal of Imaging Systems and Technology</i> , 2008, 18, 79-84.	2.7	3
80	Guest editorial: Special issue on human brain imaging. <i>International Journal of Imaging Systems and Technology</i> , 2008, 18, 1-1.	2.7	0
81	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
82	Auditory processing abnormalities in schizotypal personality disorder: An fMRI experiment using tones of deviant pitch and duration. <i>Schizophrenia Research</i> , 2008, 103, 26-39.	1.1	29
83	Independent vector analysis (IVA): Multivariate approach for fMRI group study. <i>NeuroImage</i> , 2008, 40, 86-109.	2.1	135
84	Altered Verbal Working Memory Process in Patients with Alzheimer's Disease. <i>Neuropsychobiology</i> , 2008, 57, 181-187.	0.9	57
85	Functional magnetic resonance imaging-mediated learning of increased activity in auditory areas. <i>NeuroReport</i> , 2007, 18, 1915-1920.	0.6	33
86	Rater-dependent accuracy in predicting the spatial location of functional centers on anatomical MR images. <i>Clinical Neurology and Neurosurgery</i> , 2007, 109, 225-235.	0.6	5
87	Neural activities in human somatosensory cortical areas evoked by acupuncture stimulation. <i>Complementary Therapies in Medicine</i> , 2007, 15, 247-254.	1.3	27
88	Composite Contrast Approach for Cellular MRI using the Combination of Gadolinium Chelates and Iron Oxide Particles. , 2007, , .		0
89	REPRODUCIBILITY OF TRIAL-BASED FUNCTIONAL MRI ON MOTOR IMAGERY. <i>International Journal of Neuroscience</i> , 2007, 117, 215-227.	0.8	22
90	A deficit in the ability to form new human memories without sleep. <i>Nature Neuroscience</i> , 2007, 10, 385-392.	7.1	489

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91	The human emotional brain without sleep – a prefrontal amygdala disconnect. <i>Current Biology</i> , 2007, 17, R877-R878.	1.8	957
92	Increasing cortical activity in auditory areas through neurofeedback functional magnetic resonance imaging. <i>NeuroReport</i> , 2006, 17, 1273-1278.	0.6	72
93	In Vivo Visualization of White Matter Fiber Tracts of Preterm- and Term-Infant Brains With Diffusion Tensor Magnetic Resonance Imaging. <i>Investigative Radiology</i> , 2005, 40, 110-115.	3.5	55
94	fMRI investigation on cue-induced smoking craving. <i>Journal of Psychiatric Research</i> , 2005, 39, 333-335.	1.5	18
95	The Functional Anatomy of Sleep-dependent Visual Skill Learning. <i>Cerebral Cortex</i> , 2005, 15, 1666-1675.	1.6	110
96	WORKING MEMORY PROCESSING OF FACIAL IMAGES IN SCHIZOPHRENIA: fMRI INVESTIGATION. <i>International Journal of Neuroscience</i> , 2005, 115, 351-366.	0.8	23
97	Long-Term Reproducibility Analysis of Fmri using Hand Motor Task. <i>International Journal of Neuroscience</i> , 2005, 115, 55-77.	0.8	67
98	Functional asymmetry in human primary auditory cortex: Identified from longitudinal fMRI study. <i>Neuroscience Letters</i> , 2005, 383, 1-6.	1.0	19
99	Head motion analysis during cognitive fMRI examination: Application in patients with schizophrenia. <i>Neuroscience Research</i> , 2005, 53, 84-90.	1.0	27
100	Neuronal Dysfunction of the Frontal Lobe in Schizophrenia. <i>Neuropsychobiology</i> , 2004, 50, 211-215.	0.9	20
101	NEURAL SUBSTRATES ASSOCIATED WITH THE CONCURRENT PERFORMANCE OF DUAL WORKING MEMORY TASKS. <i>International Journal of Neuroscience</i> , 2004, 114, 613-631.	0.8	34
102	Evaluating requirements for spatial resolution of fMRI for neurosurgical planning. <i>Human Brain Mapping</i> , 2004, 21, 34-43.	1.9	54
103	Functional MRI of auditory verbal working memory: long-term reproducibility analysis. <i>NeuroImage</i> , 2004, 21, 1000-1008.	2.1	103
104	Modulation of cerebellar activities by acupuncture stimulation: evidence from fMRI study. <i>NeuroImage</i> , 2004, 22, 932-940.	2.1	184
105	Brain-computer interface using fMRI: spatial navigation by thoughts. <i>NeuroReport</i> , 2004, 15, 1591-1595.	0.6	235
106	Selection of voxel size and slice orientation for fMRI in the presence of susceptibility field gradients: application to imaging of the amygdala. <i>NeuroImage</i> , 2003, 19, 817-825.	2.1	74
107	Added Benefit of Thoracic Aortography After Transarterial Embolization in Patients with Hemoptysis. <i>American Journal of Roentgenology</i> , 2003, 180, 1577-1581.	1.0	35
108	Neural substrates of tactile imagery: a functional MRI study. <i>NeuroReport</i> , 2003, 14, 581-585.	0.6	141

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109	Independent Component Analysis for the Examination of Dynamic Contrast-Enhanced Breast Magnetic Resonance Imaging Data. <i>Investigative Radiology</i> , 2002, 37, 647-654.	3.5	25
110	Functional MRI for neurofeedback: feasibility study on a hand motor task. <i>NeuroReport</i> , 2002, 13, 1377-1381.	0.6	171
111	New subtraction algorithms for evaluation of lesions on dynamic contrast-enhanced MR mammography. <i>European Radiology</i> , 2002, 12, 3018-3022.	2.3	13
112	Multiresolution Data Acquisition and Detection in Functional MRI. <i>NeuroImage</i> , 2001, 14, 1476-1485.	2.1	26
113	Human brain mapping of auditory imagery: event-related functional MRI study. <i>NeuroReport</i> , 2001, 12, 3045-3049.	0.6	94
114	A Functional Magnetic Resonance Imaging Study of Auditory Mismatch in Schizophrenia. <i>American Journal of Psychiatry</i> , 2001, 158, 938-943.	4.0	94
115	Functional magnetic resonance imaging using non-Fourier, spatially selective radiofrequency encoding. <i>Magnetic Resonance in Medicine</i> , 1999, 41, 759-766.	1.9	7
116	Real-Time Adaptive Functional MRI. <i>NeuroImage</i> , 1999, 10, 596-606.	2.1	35
117	Rapid tip tracking with MRI by a limited projection reconstruction technique. <i>Journal of Magnetic Resonance Imaging</i> , 1998, 8, 262-264.	1.9	26
118	Digital wavelet-encoded MRI: A new wavelet-encoding methodology. <i>Journal of Magnetic Resonance Imaging</i> , 1998, 8, 1135-1144.	1.9	22
119	3D localization of surface 10â€“20 EEG electrodes on high resolution anatomical MR images. <i>Electroencephalography and Clinical Neurophysiology</i> , 1997, 102, 335-339.	0.3	26
120	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
121	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