

# Won Seok Chang

## List of Publications by Year in descending order

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105  
papers

2,278  
citations

218592

26  
h-index

265120

42  
g-index

108  
all docs

108  
docs citations

108  
times ranked

2637  
citing authors

#	ARTICLE	IF	CITATIONS
1	Unilateral magnetic resonance guided focused ultrasound thalamotomy for essential tremor: practices and clinicroadiological outcomes. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2015, 86, 257-264.	0.9	176
2	Factors associated with successful magnetic resonance-guided focused ultrasound treatment: efficiency of acoustic energy delivery through the skull. <i>Journal of Neurosurgery</i> , 2016, 124, 411-416.	0.9	149
3	Analysis of radiosurgical results in patients with brain metastases according to the number of brain lesions: is stereotactic radiosurgery effective for multiple brain metastases?. <i>Journal of Neurosurgery</i> , 2010, 113, 73-78.	0.9	128
4	A study of novel bilateral thermal capsulotomy with focused ultrasound for treatment-refractory obsessive-compulsive disorder: 2-year follow-up. <i>Journal of Psychiatry and Neuroscience</i> , 2018, 43, 327-337.	1.4	77
5	Unilateral magnetic resonance-guided focused ultrasound pallidotomy for Parkinson disease. <i>Neurology</i> , 2015, 85, 549-551.	1.5	76
6	Safety and feasibility of multiple blood-brain barrier disruptions for the treatment of glioblastoma in patients undergoing standard adjuvant chemotherapy. <i>Journal of Neurosurgery</i> , 2021, 134, 475-483.	0.9	69
7	Interbrain phase synchronization during turn-taking verbal interaction—a hyperscanning study using simultaneous EEG/MEG. <i>Human Brain Mapping</i> , 2018, 39, 171-188.	1.9	67
8	Different magnetic resonance imaging patterns after transcranial magnetic resonance-guided focused ultrasound of the ventral intermediate nucleus of the thalamus and anterior limb of the internal capsule in patients with essential tremor or obsessive-compulsive disorder. <i>Journal of Neurosurgery</i> , 2015, 122, 162-168.	0.9	61
9	Long-term follow-up of deep brain stimulation for refractory obsessive-compulsive disorder. <i>Psychiatry Research</i> , 2012, 200, 1067-1070.	1.7	60
10	Focused ultrasound-induced blood-brain barrier opening improves adult hippocampal neurogenesis and cognitive function in a cholinergic degeneration dementia rat model. <i>Alzheimer's Research and Therapy</i> , 2019, 11, 110.	3.0	58
11	Comparative Evaluation of Magnetic Resonance-Guided Focused Ultrasound Surgery for Essential Tremor. <i>Stereotactic and Functional Neurosurgery</i> , 2017, 95, 279-286.	0.8	57
12	Focused ultrasound-mediated noninvasive blood-brain barrier modulation: preclinical examination of efficacy and safety in various sonication parameters. <i>Neurosurgical Focus</i> , 2018, 44, E15.	1.0	48
13	Improvements in Memory after Medial Septum Stimulation Are Associated with Changes in Hippocampal Cholinergic Activity and Neurogenesis. <i>BioMed Research International</i> , 2014, 2014, 1-10.	0.9	47
14	Extensive frontal focused ultrasound mediated blood-brain barrier opening for the treatment of Alzheimer's disease: a proof-of-concept study. <i>Translational Neurodegeneration</i> , 2021, 10, 44.	3.6	46
15	One-Year Outcome of Multiple Blood-Brain Barrier Disruptions With Temozolomide for the Treatment of Glioblastoma. <i>Frontiers in Oncology</i> , 2020, 10, 1663.	1.3	45
16	Quality of Life in Patients With Vestibular Schwannomas According to Management Strategy. <i>Otology and Neurotology</i> , 2015, 36, 1725-1729.	0.7	41
17	Detection of Brain Somatic Mutations in Cerebrospinal Fluid from Refractory Epilepsy Patients. <i>Annals of Neurology</i> , 2021, 89, 1248-1252.	2.8	37
18	Hierarchical Dynamic Causal Modeling of Resting-State fMRI Reveals Longitudinal Changes in Effective Connectivity in the Motor System after Thalamotomy for Essential Tremor. <i>Frontiers in Neurology</i> , 2017, 8, 346.	1.1	36

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19	Bilateral subthalamic deep brain stimulation using single track microelectrode recording. <i>Acta Neurochirurgica</i> , 2011, 153, 1087-1095.	0.9	35
20	Immediate and Longitudinal Alterations of Functional Networks after Thalamotomy in Essential Tremor. <i>Frontiers in Neurology</i> , 2016, 7, 184.	1.1	34
21	Solitary fibrous tumor/hemangiopericytoma: treatment results based on the 2016 WHO classification. <i>Journal of Neurosurgery</i> , 2019, 130, 418-425.	0.9	34
22	Gamma Knife surgery for intracranial chordoma and chondrosarcoma: radiosurgical perspectives and treatment outcomes. <i>Journal of Neurosurgery</i> , 2014, 121, 188-197.	0.9	33
23	Predictive Factors of Unfavorable Events After Gamma Knife Radiosurgery for Vestibular Schwannoma. <i>World Neurosurgery</i> , 2017, 107, 175-184.	0.7	32
24	Treatment of secondary dystonia with a combined stereotactic procedure: long-term surgical outcomes. <i>Acta Neurochirurgica</i> , 2011, 153, 2319-2328.	0.9	28
25	A Combination Procedure with Double C-Shaped Skin Incision and Dual-Floor Burr Hole Method to Prevent Skin Erosion on the Scalp and Reduce Postoperative Skin Complications in Deep Brain Stimulation. <i>Stereotactic and Functional Neurosurgery</i> , 2011, 89, 178-184.	0.8	28
26	Delayed recurrence of hemifacial spasm after successful microvascular decompression: follow-up results at least 5 years after surgery. <i>Acta Neurochirurgica</i> , 2012, 154, 1613-1619.	0.9	28
27	The effect of nucleus basalis magnocellularis deep brain stimulation on memory function in a rat model of dementia. <i>BMC Neurology</i> , 2016, 16, 6.	0.8	27
28	Outcomes of intrathecal baclofen therapy in patients with cerebral palsy and acquired brain injury. <i>Medicine (United States)</i> , 2017, 96, e7472.	0.4	27
29	Gamma Knife surgery for facial nerve schwannomas. <i>Journal of Neurosurgery</i> , 2014, 121, 116-122.	0.9	24
30	Effects on cognition and quality of life with unilateral magnetic resonance-guided focused ultrasound thalamotomy for essential tremor. <i>Neurosurgical Focus</i> , 2018, 44, E8.	1.0	24
31	Two-Year Outcomes of Deep Brain Stimulation in Adults With Cerebral Palsy. <i>Annals of Rehabilitation Medicine</i> , 2014, 38, 209.	0.6	24
32	Effects of Relative Low-Frequency Bilateral Globus Pallidus Internus Stimulation for Treatment of Cervical Dystonia. <i>Stereotactic and Functional Neurosurgery</i> , 2012, 90, 30-36.	0.8	22
33	Outcomes of surgical treatment for hemifacial spasm associated with the vertebral artery: severity of compression, indentation, and color change. <i>Acta Neurochirurgica</i> , 2012, 154, 501-508.	0.9	22
34	Microneurovascular decompression in patients with hemifacial spasm caused by vascular compression of facial nerve at cisternal portion. <i>Acta Neurochirurgica</i> , 2010, 152, 2105-2111.	0.9	21
35	Simultaneous Thalamic and Posterior Subthalamic Electrode Insertion With Single Deep Brain Stimulation Electrode for Essential Tremor. <i>Neuromodulation</i> , 2013, 16, 236-243.	0.4	20
36	Non-invasively enhanced intracranial transplantation of mesenchymal stem cells using focused ultrasound mediated by overexpression of cell-adhesion molecules. <i>Stem Cell Research</i> , 2020, 43, 101726.	0.3	20

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37	Long-Term Results of Gamma Knife Radiosurgery for Intracranial Meningioma. <i>Brain Tumor Research and Treatment</i> , 2015, 3, 103.	0.4	19
38	Gamma knife radiosurgery for idiopathic trigeminal neuralgia as primary vs. secondary treatment option. <i>Clinical Neurology and Neurosurgery</i> , 2011, 113, 447-452.	0.6	17
39	Hearing Outcome Following Microvascular Decompression for Hemifacial Spasm: Series of 1434 Cases. <i>World Neurosurgery</i> , 2017, 108, 566-571.	0.7	17
40	Bilateral Globus Pallidus Interna Deep-Brain Stimulation in a Patient With Myoclonus-Dystonia: A Case Report. <i>Neuromodulation</i> , 2014, 17, 724-728.	0.4	15
41	Neurophysiologic Correlates of Sonication Treatment in Patients with Essential Tremor. <i>Ultrasound in Medicine and Biology</i> , 2015, 41, 124-131.	0.7	15
42	Radiosurgery vs. microsurgery for newly diagnosed, small petroclival meningiomas with trigeminal neuralgia. <i>Neurosurgical Review</i> , 2020, 43, 1631-1640.	1.2	15
43	Hepatocellular carcinoma specific graded prognostic assessment can predict outcomes for patients with brain metastases from hepatocellular carcinoma. <i>Journal of Neuro-Oncology</i> , 2014, 120, 199-207.	1.4	14
44	Effect of Subthalamic Deep Brain Stimulation on Levodopa-Induced Dyskinesia in Parkinson's Disease. <i>Yonsei Medical Journal</i> , 2015, 56, 1316.	0.9	14
45	Optimal Treatment Decision for Brain Metastases of Unknown Primary Origin: The Role and Timing of Radiosurgery. <i>Brain Tumor Research and Treatment</i> , 2016, 4, 107.	0.4	14
46	Effect of Placenta-Derived Mesenchymal Stem Cells in a Dementia Rat Model via Microglial Mediation: a Comparison between Stem Cell Transplant Methods. <i>Yonsei Medical Journal</i> , 2018, 59, 406.	0.9	14
47	Benefits of microvascular decompression on social anxiety disorder and health-related quality of life in patients with hemifacial spasm. <i>Acta Neurochirurgica</i> , 2016, 158, 1397-1404.	0.9	13
48	Bilateral thermal capsulotomy with magnetic resonanceâ€guided focused ultrasound for patients with treatmentâ€resistant depression: A proofâ€ofâ€concept study. <i>Bipolar Disorders</i> , 2020, 22, 771-774.	1.1	13
49	Hypopituitarism after Gamma Knife surgery for postoperative nonfunctioning pituitary adenoma. <i>Journal of Neurosurgery</i> , 2018, 129, 47-54.	0.9	13
50	The Potential Usefulness of Magnetic Resonance Guided Focused Ultrasound for Obsessive Compulsive Disorders. <i>Journal of Korean Neurosurgical Society</i> , 2018, 61, 427-433.	0.5	13
51	Stimulation-Induced Side Effects of Deep Brain Stimulation in the Ventralis Intermedius and Posterior Subthalamic Area for Essential Tremor. <i>Frontiers in Neurology</i> , 2021, 12, 678592.	1.1	12
52	The Effect of Bilateral Globus Pallidus Internus Deep Brain Stimulation plus Ventralis Oralis Thalamotomy on Patients with Cerebral Palsy. <i>Stereotactic and Functional Neurosurgery</i> , 2012, 90, 292-299.	0.8	11
53	Combined bilateral anterior cingulotomy and ventral capsule/ventral striatum deep brain stimulation for refractory obsessive-compulsive disorder with major depression: Do combined procedures have a long-term benefit?. <i>Restorative Neurology and Neuroscience</i> , 2013, 31, 723-732.	0.4	11
54	Identifying the appropriate time for deep brain stimulation to achieve spatial memory improvement on the Morris water maze. <i>BMC Neuroscience</i> , 2017, 18, 29.	0.8	11

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55	Comparing Outcomes Following Salvage Microsurgery in Vestibular Schwannoma Patients Failing Gamma-knife Radiosurgery or Microsurgery. <i>Otology and Neurotology</i> , 2017, 38, 1339-1344.	0.7	11
56	Technical and operative factors affecting magnetic resonance imaging-guided focused ultrasound thalamotomy for essential tremor: experience from 250 treatments. <i>Journal of Neurosurgery</i> , 2021, 135, 1780-1788.	0.9	11
57	Treatment Options of Metastatic Brain Tumors from Hepatocellular Carcinoma: Surgical Resection vs. Gamma Knife Radiosurgery vs. Whole Brain Radiation Therapy. <i>Brain Tumor Research and Treatment</i> , 2013, 1, 78.	0.4	10
58	Stereotactic biopsy for adult brainstem lesions: A surgical approach and its diagnostic value according to the 2016 World Health Organization Classification. <i>Cancer Medicine</i> , 2021, 10, 7514-7524.	1.3	10
59	Delayed Dural Arteriovenous Fistula after Microvascular Decompression for Hemifacial Spasm. <i>Journal of Korean Neurosurgical Society</i> , 2014, 56, 168.	0.5	10
60	Bilateral Globus Pallidus Internus Deep Brain Stimulation for DYT1+ Generalized Dystonia with Previously Received Bilateral Thalamotomy and Unilateral Pallidotomy. <i>Stereotactic and Functional Neurosurgery</i> , 2011, 89, 205-209.	0.8	9
61	Diagnostic Accuracy of Cerebrospinal Fluid (CSF) Cytology in Metastatic Tumors: An Analysis of Consecutive CSF Samples. <i>Korean Journal of Pathology</i> , 2013, 47, 563.	1.2	9
62	Basal Forebrain Cholinergic Deficits Reduce Glucose Metabolism and Function of Cholinergic and GABAergic Systems in the Cingulate Cortex. <i>Yonsei Medical Journal</i> , 2016, 57, 165.	0.9	9
63	Gamma Knife Radiosurgery Followed by Flow-Reductive Embolization for Ruptured Arteriovenous Malformation. <i>Journal of Clinical Medicine</i> , 2020, 9, 1318.	1.0	9
64	The behavior of residual tumors following incomplete surgical resection for vestibular schwannomas. <i>Scientific Reports</i> , 2021, 11, 4665.	1.6	9
65	Complications After Deep Brain Stimulation: A 21-Year Experience in 426 Patients. <i>Frontiers in Aging Neuroscience</i> , 2022, 14, 819730.	1.7	9
66	Decrease of GABAergic Markers and Arc Protein Expression in the Frontal Cortex by Intraventricular 192 IgG-Saporin. <i>Dementia and Geriatric Cognitive Disorders</i> , 2011, 32, 70-78.	0.7	8
67	Impact of Ventralis Caudalis Deep Brain Stimulation Combined with Stereotactic Bilateral Cingulotomy for Treatment of Post-Stroke Pain. <i>Stereotactic and Functional Neurosurgery</i> , 2012, 90, 9-15.	0.8	8
68	Decreased inhibitory neuronal activity in patients with frontal lobe brain tumors with seizure presentation: Preliminary study using magnetoencephalography. <i>Acta Neurochirurgica</i> , 2013, 155, 1449-1457.	0.9	7
69	The long-term effects of microvascular decompression on social phobia and health-related quality of life in patients with hemifacial spasm: a 3-year prospective study. <i>Acta Neurochirurgica</i> , 2019, 161, 2035-2042.	0.9	7
70	Intrathecal Baclofen Pump Versus Globus Pallidus Interna Deep Brain Stimulation in Adult Patients with Severe Cerebral Palsy. <i>World Neurosurgery</i> , 2019, 126, e550-e556.	0.7	7
71	Differential evolution method to find optimal location of a single-element transducer for transcranial focused ultrasound therapy. <i>Computer Methods and Programs in Biomedicine</i> , 2022, 219, 106777.	2.6	7
72	A Comparison of LEDD and Motor Scores Following STN-DBS Treatment in Patient with Young Onset vs. Late Onset Parkinson's Disease. <i>Neuromodulation</i> , 2010, 13, 255-260.	0.4	6

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73	Management of a DBS System in Patients With Traumatic Brain Injury: Case Report. <i>Neuromodulation</i> , 2011, 14, 214-218.	0.4	6
74	The Role of Radiosurgery in the Management of Benign Head and Neck Tumors. <i>World Neurosurgery</i> , 2016, 87, 116-123.	0.7	6
75	Focused ultrasound treatment for central nervous system disease: neurosurgeon's perspectives. <i>Biomedical Engineering Letters</i> , 2017, 7, 107-114.	2.1	6
76	Gamma Knife Radiosurgery for Idiopathic Trigeminal Neuralgia: Does the Status of Offending Vessels Influence Pain Control or Side Effects?. <i>World Neurosurgery</i> , 2017, 104, 687-693.	0.7	6
77	Gamma Knife Radiosurgery for Postoperative Remnant Meningioma: Analysis of Recurrence Factors According to World Health Organization Grade. <i>World Neurosurgery</i> , 2019, 132, e399-e402.	0.7	6
78	Gamma Knife Radiosurgery for Choroidal Hemangioma: A Single-Institute Series. <i>World Neurosurgery</i> , 2020, 133, e129-e134.	0.7	6
79	Safety and Efficacy of Magnetic Resonance-Guided Focused Ultrasound Surgery With Autofocusing Echo Imaging. <i>Frontiers in Neuroscience</i> , 2020, 14, 592763.	1.4	6
80	Surgical complications of pediatric auditory brain stem implantation in patients with narrow internal auditory canal following retrosigmoid approach. <i>Child's Nervous System</i> , 2012, 28, 933-938.	0.6	5
81	Hearing Restoration in Neurofibromatosis Type II Patients. <i>Yonsei Medical Journal</i> , 2016, 57, 817.	0.9	5
82	Favorable Long-Term Functional Outcomes and Safety of Auditory Brainstem Implants in Nontumor Patients. <i>Operative Neurosurgery</i> , 2017, 13, 653-660.	0.4	5
83	Magnetic Resonance-Guided High Intensity Focused Ultrasound for Treating Movement Disorders. <i>Progress in Neurological Surgery</i> , 2018, 33, 120-134.	1.3	5
84	Factors Related to the Clinical Outcomes of Surgery for Extra-Temporal Lobe Epilepsy: Long-Term Follow-Up Results. <i>World Neurosurgery</i> , 2018, 115, e645-e649.	0.7	5
85	Factors Related to Outcomes of Subthalamic Deep Brain Stimulation in Parkinson's Disease. <i>Journal of Korean Neurosurgical Society</i> , 2013, 54, 118.	0.5	5
86	Bilateral Pallidal Stimulation for "Sticking-Out Tongue" Feature in Patients With Primary Focal Tongue Protrusion Dystonia. <i>Neuromodulation</i> , 2014, 17, 133-137.	0.4	4
87	The synergistic effect of focused ultrasound and biophotonics to overcome the barrier of light transmittance in biological tissue. <i>Photodiagnosis and Photodynamic Therapy</i> , 2021, 33, 102173.	1.3	4
88	Predictive Factors of Radiation-Induced Changes Following Single-Session Gamma Knife Radiosurgery for Arteriovenous Malformations. <i>Journal of Clinical Medicine</i> , 2021, 10, 2186.	1.0	4
89	Temporal Volume Change of Cavernous Sinus Cavernous Hemangiomas after Gamma Knife Surgery. <i>Yonsei Medical Journal</i> , 2020, 61, 976.	0.9	4
90	Predictive factors of early distant brain failure after gamma knife radiosurgery alone in patients with brain metastases of non-small-cell lung cancer. <i>Journal of Neuro-Oncology</i> , 2017, 132, 333-340.	1.4	3

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91	Functional Neural Changes after Low-Frequency Bilateral Globus Pallidus Internus Deep Brain Stimulation for Post-Hypoxic Cortical Myoclonus: Voxel-Based Subtraction Analysis of Serial Positron Emission. <i>Brain Sciences</i> , 2020, 10, 730.	1.1	3
92	Factors Associated with Energy Efficiency of Focused Ultrasound Through the Skull: A Study of 3D-Printed Skull Phantoms and Its Comparison with Clinical Experiences. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021, 9, 783048.	2.0	3
93	Early-onset adverse events after stereotactic radiosurgery for jugular foramen schwannoma: a mid-term follow-up single-center review of 46 cases. <i>Radiation Oncology</i> , 2022, 17, 89.	1.2	3
94	'Is tinnitus accompanied by hemifacial spasm in normal-hearing patients also a type of hyperactive neurovascular compression syndrome? : A magnetoencephalography study. <i>BMC Neurology</i> , 2013, 13, 42.	0.8	2
95	Magnetoencephalography as a Prognostic Tool in Patients with Medically Intractable Temporal Lobe Epilepsy. <i>World Neurosurgery</i> , 2019, 123, e753-e759.	0.7	2
96	Epidural grid, a new methodology of invasive intracranial EEG monitoring: A technical note and experience of a single center. <i>Epilepsy Research</i> , 2022, 182, 106912.	0.8	2
97	Outcomes of Intrathecal Baclofen Therapy Compared With Deep Brain Stimulation in a Patient With Dystonic Cerebral Palsy: A Case Report. <i>Annals of Rehabilitation Medicine</i> , 2019, 43, 335-340.	0.6	1
98	Dual Pallidal and Thalamic Deep Brain Stimulation for Complex Ipsilateral Dystonia. <i>Yonsei Medical Journal</i> , 2022, 63, 166.	0.9	1
99	Clinical application of deep learning-based synthetic CT from real MRI to improve dose planning accuracy in Gamma Knife radiosurgery: a proof of concept study. <i>Biomedical Engineering Letters</i> , 2022, 12, 359-367.	2.1	1
100	Assessment of the Effects of Unilateral Electrode Dysfunction in Patients With Parkinson Disease Undergoing Bilateral Subthalamic Nucleus Deep Brain Stimulation. <i>Operative Neurosurgery</i> , 2012, 70, ons163-ons169.	0.4	0
101	Dose-dependent Changes in Gait Pattern after Intrathecal Baclofen Bolus Injection in Adult Ambulatory Cerebral Palsy: A Case Report. <i>Brain &amp; Neurorehabilitation</i> , 2015, 8, 104.	0.4	0
102	Symptom-associated change of motor-related neuromagnetic fields in a patient with multiple sclerosis: A case report. <i>Journal of Clinical Neuroscience</i> , 2018, 50, 115-122.	0.8	0
103	Radiosurgery versus Microsurgery for Newly Diagnosed, Small Petroclival Meningiomas with Trigeminal Neuralgia. , 2021, 82, .		0
104	Consecutively occurring radiation-induced meningiomas with various pathologic diagnoses: a case report. <i>Daehan Jeong'wi Gi'neung Sin'gyeong Oe'gwa Haghoeji</i> , 2021, 17, 103-109.	0.0	0
105	Image-guided Stereotactic Neurosurgery: Practices and Pitfalls. <i>Journal of International Society for Simulation Surgery</i> , 2015, 2, 58-63.	0.0	0