Im Joo Rhyu

List of Publications by Year
in descending order

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141	2,752	186209	223716
papers	citations	28 h-index	46 g-index

144	144	144	6828
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	ACT-PRESTO: Rapid and consistent tissue clearing and labeling method for 3-dimensional (3D) imaging. Scientific Reports, 2016, 6, 18631.	1.6	186
2	Surface-enhanced Raman scattering imaging of HER2 cancer markers overexpressed in single MCF7 cells using antibody conjugated hollow gold nanospheres. Biosensors and Bioelectronics, 2009, 24, 2260-2263.	5.3	168
3	Constriction of the mitochondrial inner compartment is a priming event for mitochondrial division. Nature Communications, 2017, 8, 15754.	5.8	155
4	Bidirectional Alterations in Cerebellar Synaptic Transmission oftottering and rollingCa2+ Channel Mutant Mice. Journal of Neuroscience, 2002, 22, 4388-4398.	1.7	104
5	Experience-Dependent Plasticity of Cerebellar Vermis in Basketball Players. Cerebellum, 2009, 8, 334-339.	1.4	89
6	The expression of non-clustered protocadherins in adult rat hippocampal formation and the connecting brain regions. Neuroscience, 2010, 170, 189-199.	1.1	73
7	Adaptations in Anatomy Education during COVID-19. Journal of Korean Medical Science, 2021, 36, e13.	1.1	71
8	Binding preference of p62 towards LC3-ll during dopaminergic neurotoxin-induced impairment of autophagic flux. Autophagy, 2011, 7, 51-60.	4.3	70
9	Developmental characteristics of dendritic spines in the dentate gyrus of Fmr1 knockout mice. Brain Research, 2010, 1355, 221-227.	1.1	65
10	Generation of homogeneous midbrain organoids with in vivo-like cellular composition facilitates neurotoxin-based Parkinson's disease modeling. Stem Cells, 2020, 38, 727-740.	1.4	64
11	Morphological changes in dendritic spines of Purkinje cells associated with motor learning. Neurobiology of Learning and Memory, 2007, 88, 445-450.	1.0	59
12	Morphologic investigation of rolling mouse Nagoya (tgrol/tgrol) cerebellar Purkinje cells: an ataxic mutant, revisited. Neuroscience Letters, 1999, 266, 49-52.	1.0	47
13	Connexin 43 is required for the maintenance of mitochondrial integrity in brown adipose tissue. Scientific Reports, 2017, 7, 7159.	1.6	46
14	All-inside arthroscopic modified BrostrÃ¶m operation for chronic ankle instability: a biomechanical study. Knee Surgery, Sports Traumatology, Arthroscopy, 2016, 24, 1096-1100.	2.3	45
15	Magnetic resonance image-based cerebellar volumetry in healthy Korean adults. Neuroscience Letters, 1999, 270, 149-152.	1.0	42
16	Motor Skill Training Induces Coordinated Strengthening and Weakening between Neighboring Synapses. Journal of Neuroscience, 2013, 33, 9794-9799.	1.7	42
17	Emotional experiences of medical students during cadaver dissection and the role of memorial ceremonies: a qualitative study. BMC Medical Education, 2018, 18, 255.	1.0	41
18	Specific plasticity of parallel fiber/Purkinje cell spine synapses by motor skill learning. NeuroReport, 2002, 13, 1607-1610.	0.6	40

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19	The maintenance of specific aspects of neuronal function and behavior is dependent on programmed cell death of adultâ€generated neurons in the dentate gyrus. European Journal of Neuroscience, 2009, 29, 1408-1421.	1.2	40
20	Production of human spinal-cord organoids recapitulating neural-tube morphogenesis. Nature Biomedical Engineering, 2022, 6, 435-448.	11.6	40
21	An inside-out vein graft filled with platelet-rich plasma for repair of a short sciatic nerve defect in rats. Neural Regeneration Research, 2014, 9, 1351.	1.6	39
22	Identification of novel electroconvulsive shock-induced and activity-dependent genes in the rat brain. Biochemical and Biophysical Research Communications, 2005, 327, 848-856.	1.0	36
23	Expression of calcium channel Î±1A mRNA and protein in the leaner mouse (tgla/tgla) cerebellum. Molecular Brain Research, 1998, 59, 93-99.	2.5	35
24	The roles of dendritic spine shapes in Purkinje cells. Cerebellum, 2005, 4, 97-104.	1.4	35
25	Misplacement of Purkinje Cells during Postnatal Development in Bax Knock-Out Mice: A Novel Role for Programmed Cell Death in the Nervous System?. Journal of Neuroscience, 2008, 28, 2941-2948.	1.7	34
26	Morphological analysis of spine shapes of Purkinje cell dendrites in the rat cerebellum using high-voltage electron microscopy. Neuroscience Letters, 2004, 359, 21-24.	1.0	33
27	Isocitrate dehydrogenase 2 protects mice from high-fat diet-induced metabolic stress by limiting oxidative damage to the mitochondria from brown adipose tissue. Experimental and Molecular Medicine, 2020, 52, 238-252.	3.2	32
28	Body size effect on brain volume in Korean youth. NeuroReport, 2005, 16, 2029-2032.	0.6	31
29	Dissociation of Progressive Dopaminergic Neuronal Death and Behavioral Impairments by Bax Deletion in a Mouse Model of Parkinson's Diseases. PLoS ONE, 2011, 6, e25346.	1.1	31
30	Hydrogen sulfide is essential for Schwann cell responses to peripheral nerve injury. Journal of Neurochemistry, 2015, 132, 230-242.	2.1	31
31	Basketball training increases striatum volume. Human Movement Science, 2011, 30, 56-62.	0.6	30
32	Altered branching patterns of Purkinje cells in mouse model for cortical development disorder. Scientific Reports, 2011, 1, 122.	1.6	28
33	Differences between brain mass and body weight scaling to height: potential mechanism of reduced mass-specific resting energy expenditure of taller adults. Journal of Applied Physiology, 2009, 106, 40-48.	1.2	27
34	Gender differences in the corpus callosum of neonates. NeuroReport, 2004, 15, 1029-1032.	0.6	25
35	Uvragtargeting byMir125aandMir351modulates autophagy associated withEwsr1deficiency. Autophagy, 2015, 11, 796-811.	4.3	24
36	Effect of thymosin Î²15 on the branching of developing neurons. Biochemical and Biophysical Research Communications, 2005, 331, 43-49.	1.0	23

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37	No volume difference of medulla oblongata between young and old Korean people. Brain Research, 2009, 1276, 77-82.	1.1	23
38	Nigericin-induced Impairment of Autophagic Flux in Neuronal Cells Is Inhibited by Overexpression of Bak. Journal of Biological Chemistry, 2012, 287, 23271-23282.	1.6	22
39	Apoptotic cell death of cerebellar granule cells in rolling mouse Nagoya. Neuroscience Letters, 2002, 325, 1-4.	1.0	21
40	Drp1â€mediated mitochondrial dynamics and survival of developing chick motoneurons during the period of normal programmed cell death. FASEB Journal, 2013, 27, 51-62.	0.2	21
41	Safe Zone for Medial Open-Wedge Supramalleolar Osteotomy of the Ankle. Foot and Ankle International, 2016, 37, 102-108.	1.1	21
42	Promotion of Remyelination by Sulfasalazine in a Transgenic Zebrafish Model of Demyelination. Molecules and Cells, 2015, 38, 1013-1021.	1.0	21
43	Altered neuronal nitric oxide synthase expression in the cerebellum of calcium channel mutant mice. Brain Research, 2003, 977, 129-140.	1.1	20
44	Expression of thymosin Î² in the rat brain following transient global ischemia. Brain Research, 2006, 1085, 177-182.	1.1	20
45	Roles of the Declive, Folium, and Tuber Cerebellar Vermian Lobules in Sportspeople. Journal of		

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55	Nobiletin attenuates neurotoxic mitochondrial calcium overload through K⁺ influx and Î”Î¨<sub>m</sub across mitochondrial inner membrane. Korean Journal of Physiology and Pharmacology, 2018, 22, 311.	0.6	16
56	A simple morphometric analysis method for dermal microstructure using color thresholding and moments. Skin Research and Technology, 2020, 26, 132-136.	0.8	16
57	Growth patterns for acervuli in human pineal gland. Scientific Reports, 2012, 2, 984.	1.6	15
58	Novel therapeutic roles of <scp>MC</scp>â€4 in combination with everolimus against advanced renal cell carcinoma by dual targeting of Akt/pyruvate kinase muscle isozyme M2 and mechanistic target of rapamycin complex 1 pathways. Cancer Medicine, 2018, 7, 5083-5095.	1.3	15
59	Anatomic Characteristics of Pronator Quadratus Muscle: A Cadaver Study. Annals of Rehabilitation Medicine, 2016, 40, 496.	0.6	15
60	White matter plasticity in the cerebellum of elite basketball athletes. Anatomy and Cell Biology, 2015, 48, 262.	0.5	13
61	Analysis of dural sac thickness in the human cervical spine. Anatomical Science International, 2018, 93, 284-290.	0.5	13
62	Axin expression reduces staurosporine-induced mitochondria-mediated cell death in HeLa cells. Experimental Cell Research, 2012, 318, 2022-2033.	1.2	12
63	Manipulation of the response of human endothelial colony-forming cells by focal adhesion assembly using gradient nanopattern plates. Acta Biomaterialia, 2018, 65, 272-282.	4.1	12
64	Tracking and protection of transplanted stem cells using a ferrocenecarboxylic acid-conjugated peptide that mimics hTERT. Biomaterials, 2018, 155, 80-91.	5.7	12
65	Transplantation of 3D bio-printed cardiac mesh improves cardiac function and vessel formation via ANGPT1/Tie2 pathway in rats with acute myocardial infarction. Biofabrication, 2021, 13, 045014.	3.7	12
66	Branching Patterns of Medial and Inferior Calcaneal Nerves Around the Tarsal Tunnel. Annals of Rehabilitation Medicine, 2015, 39, 52.	0.6	12
67	Complications of Nasopharyngeal Swabs and Safe Procedures for COVID-19 Testing Based on Anatomical Knowledge. Journal of Korean Medical Science, 2022, 37, e88.	1.1	12
68	Glucose-regulated protein 78 binds to and regulates the melanocortin-4 receptor. Experimental and Molecular Medicine, 2018, 50, 1-14.	3.2	11
69	Different types of multipleâ€synapse boutons in the cerebellar cortex between physically enriched and ataxic mutant mice. Microscopy Research and Technique, 2019, 82, 25-32.	1.2	10
70	Anteroposterior Wnt-RA Gradient Defines Adhesion and Migration Properties of Neural Progenitors in Developing Spinal Cord. Stem Cell Reports, 2020, 15, 898-911.	2.3	10
71	Inositol 1,4,5-Trisphosphate 3-Kinase A Is a Novel Microtubule-associated Protein. Journal of Biological Chemistry, 2012, 287, 15981-15995.	1.6	9
72	Developmental expression and subcellular distribution of synaptotagmin 11 in rat hippocampus. Neuroscience, 2012, 225, 35-43.	1.1	9

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73	Arthroscopic-assisted anatomical reconstruction of the posterolateral corner of the knee joint. Knee, 2019, 26, 1136-1142.	0.8	9
74	Rapid Method for Electron Tomographic Reconstruction and Three-Dimensional Modeling of the Murine Synapse Using an Automated Fiducial Marker-Free System. Microscopy and Microanalysis, 2013, 19, 182-187.	0.2	8
75	Clinical advantages of image-free navigation system using surface-based registration in anatomical anterior cruciate ligament reconstruction. Knee Surgery, Sports Traumatology, Arthroscopy, 2016, 24, 3556-3564.	2.3	8
76	Can Bassettâ€™s ligament be removed?. Knee Surgery, Sports Traumatology, Arthroscopy, 2016, 24, 1236-1242.	2.3	8
77	Hypomyelination and cognitive impairment in mice lacking CD133 (Prominin-1). Biochemical and Biophysical Research Communications, 2018, 502, 291-298.	1.0	8
78	LEFTY-PITX2 signaling pathway is critical for generation of mature and ventricular cardiac organoids in human pluripotent stem cell-derived cardiac mesoderm cells. Biomaterials, 2021, 278, 121133.	5.7	8
79	An anatomical neurovascular study for procedures targeting peri-articular nerves in patients with anterior knee pain. Knee, 2020, 27, 1577-1584.	0.8	7
80	Down-regulation of habenular calcium-dependent secretion activator 2 induces despair-like behavior. Scientific Reports, 2021, 11, 3700.	1.6	7
81	Extracorporeal shockwave therapy enhances peripheral nerve remyelination and gait function in a crush model. Advances in Clinical and Experimental Medicine, 2020, 29, 819-824.	0.6	7
82	MK-801, a non-competitive NMDA receptor antagonist, prevents postischemic decrease of inositol 1,4,5-trisphosphate receptor mRNA expression in mongolian gerbil brain. Neuroscience Letters, 1998, 255, 111-114.	1.0	6
83	Efficient and accurate analysis of mitochondrial morphology in a whole cell with a high-voltage electron microscopy. Microscopy (Oxford, England), 2012, 61, 127-131.	0.7	6
84	Effects of task constraints on obstacle avoidance strategies in patients with cerebellar disease. Gait and Posture, 2013, 37, 521-525.	0.6	6
85	Three-Dimensional Imaging of Cerebellar Mossy Fiber Rosettes by Ion-Abrasion Scanning Electron Microscopy. Microscopy and Microanalysis, 2013, 19, 172-177.	0.2	6
86	Synapses need coordination to learn motor skills. Reviews in the Neurosciences, 2014, 25, 223-30.	1.4	6
87	Combined intense pulsed light and Er:YAG laser treatment of congenital melanocytic nevus. Journal of Cosmetic and Laser Therapy, 2015, 17, 162-164.	0.3	6
88	Inhibition of rat brain inositol 1,4,5-trisphosphate 3-kinase A expression by kainic acid. Neuroscience Letters, 2006, 392, 181-186.	1.0	5
89	Extraction of Three-Dimensional Information of Biological Membranous Tissue with Scanning Confocal Infrared Laser Microscope Tomography. Microscopy and Microanalysis, 2013, 19, 194-197.	0.2	5
90	Changes in ankle joint motion after Supramalleolar osteotomy: a cadaveric model. BMC Musculoskeletal Disorders, 2017, 18, 389.	0.8	5

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91	Inhibition of Renal Stellate Cell Activation Reduces Renal Fibrosis. Biomedicines, 2020, 8, 431.	1.4	5
92	Effects of Exercise on Structural and Functional Changes in the Aging Brain. Journal of the Korean Medical Association, 2009, 52, 907.	0.1	5
93	Efficient three-dimensional reconstruction of synapse with high-voltage electron microscopy. Microscopy (Oxford, England), 2005, 54, 139-141.	0.7	4
94	Proteasome Inhibition Promotes Functional Recovery After Peripheral Nerve Reperfusion Injury. Journal of Trauma, 2009, 66, 743-748.	2.3	4
95	Ultrasoundâ€Guided Injection of the Sternocleidomastoid Muscle: A Cadaveric Study with Implications for Chemodenervation. PM and R, 2021, 13, 503-509.	0.9	4
96	Electron Tomography and Synapse Study. Applied Microscopy, 2014, 44, 83-87.	0.8	4
97	Modified Fluoroscopic Imaging Technique for the Central Screw Placement in Percutaneous Screw Fixation of Scaphoid Fracture. Journal of Trauma, 2010, 68, 616-619.	2.3	3
98	3D reconstruction of skin pathological tissue: the understanding of microrelief pattern and dermal ridge. Skin Research and Technology, 2014, 20, 213-217.	0.8	3
99	A Method of Radial Nerve Length Measurement Based on Cadaveric Investigation. Archives of Physical Medicine and Rehabilitation, 2017, 98, 596-599.	0.5	3
100	A cadaveric study for the volar needle approach to the pronator quadratus using the palmaris longus tendon landmark. Muscle and Nerve, 2019, 60, 582-585.	1.0	3
101	Lessons from Cadaver Dissection during the COVID-19 Pandemic. Journal of Korean Medical Science, 2021, 36, e188.	1.1	3
102	Effects of body size on cranial capacity in Korean youth. Animal Cells and Systems, 2015, 19, 144-148.	0.8	2
103	Morphologic Changes of Zebrafish Melanophore after Intense Pulsed Light and Q-Switched Nd:YAG Laser Irradiation. Annals of Dermatology, 2016, 28, 711.	0.3	2
104	Inositol 1,4,5-trisphosphate 3-kinase A overexpressed in mouse forebrain modulates synaptic transmission and mGluR-LTD of CA1 pyramidal neurons. PLoS ONE, 2018, 13, e0193859.	1.1	2
105	Impacts of GFP-FoxP3+ regulatory T cells on lupus hallmarks differ by genetic background and type of GFP knock-in. Autoimmunity, 2019, 52, 199-207.	1.2	2
106	Tissue-Clearing Technique and Cutaneous Nerve Biopsies: Quantification of the Intraepidermal Nerve-Fiber Density Using Active Clarity Technique-Pressure Related Efficient and Stable Transfer of		

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109	Branching Patterns and Anatomical Course of the Common Fibular Nerve. Annals of Rehabilitation Medicine, 2019, 43, 700-706.	0.6	2
110	Differential synapse density between Purkinje cell dendritic spine and parallel fiber varicosity in the rat cerebellum among the phylogenic lobules. Applied Microscopy, 2020, 50, 6.	0.8	2
111	Cerebral Cortex Changes in Basketball Players. Journal of Korean Medical Science, 2022, 37, e86.	1.1	2
112	Quantitative Analysis of the Purkinje Cell Denritic Spines in the Voltage-Dependent Calcium Channel Mutant, Rolling Mouse Nagoya. Annals of the New York Academy of Sciences, 2002, 978, 540-541.	1.8	1
113	Comments on â€œAnatomical Achievement and Thought of Leonardo da Vinciâ€•published in Korean Journal of Physical Anthropology (Vol. 29. No. 2: 35-46, 2016). Korean Journal of Physical Anthropology, 2016, 29, 129.	0.2	1
114	Sudden appearance of black macules on palmar aspect of two university chemistry students. International Journal of Dermatology, 2016, 55, e167-9.	0.5	1
115	Which Approach Is Most Optimal for Needle Electromyographic Examination of the Biceps Femoris Short Head: Medial or Lateral?. Annals of Rehabilitation Medicine, 2021, 45, 42-48.	0.6	1
116	Oral Commissure Lift: A Retrospective Analysis of Complication Rates and Overall Outcomes. Aesthetic Plastic Surgery, 2021, , 1.	0.5	1
117	Gender Difference of Corpus Callosum in Korean Neonate. Korean Journal of Physical Anthropology, 2001, 14, 333.	0.2	1
118	Gender Difference on Corpus Callosum in Korean Adults. Korean Journal of Physical Anthropology, 2005, 18, 169.	0.2	1
119	Electrophoretic Tissue Clearing and Labeling Methods for Volume Imaging of Whole Organs. Applied Microscopy, 2016, 46, 134-139.	0.8	1
120	Morphological Diversity of Mitochondria in Cultured Astrocyte, HeLa, COS7 Cells under High Voltage Electron Microscopy. Applied Microscopy, 2013, 43, 117-121.	0.8	1
121	The Tip Level of the Conus Medullaris by Magnetic Resonance Imaging and Cadaver Studies in Korean Adults. Korean Journal of Physical Anthropology, 2016, 29, 47.	0.2	1
122	Electron-Microscope Contributions to Autophagy Research and the Nobel Prize in Physiology or Medicine 2016. Applied Microscopy, 2017, 47, 1-2.	0.8	1
123	Optimal Placement of Needle Electromyography in Extensor Indicis: A Cadaveric Study. Annals of Rehabilitation Medicine, 2018, 42, 473-476.	0.6	1
124	Role of Actin Filament on Synaptic Vesicle Pooling in Cultured Hippocampal Neuron. Applied Microscopy, 2018, 48, 55-61.	0.8	1
125	Overview of Immunoelectron Microscopy. Applied Microscopy, 2018, 48, 87-95.	0.8	1
126	Gustav Klimtâ€™s The Kissâ€”Art and the Biology of Early Human Development. JAMA - Journal of the American Medical Association, 2021, 326, 1778.	3.8	1

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127	Anatomical Basis for Injection around First Dorsal Compartment of the Wrist: A Fresh Cadaveric Study. Pain Physician, 2016, 19, E893-900.	0.3	1
128	Optimal placement for needle electromyography of the supinator muscle: Cadaveric studies. Muscle and Nerve, 2022, , .	1.0	1
129	Effects of age and gender on spatial orientation of human corpus callosum in healthy Koreans. Animal Cells and Systems, 2011, 15, 274-278.	0.8	0
130	C3-O-01Three Dimensional Reconstruction of the Nervous System; Some Strategies and Applications on Neuroscience Researches. Microscopy (Oxford, England), 2015, 64, i67.1-i67.	0.7	0
131	Bergman glial cell morphology under the high voltage Electron microscope. Applied Microscopy, 2019, 49, 5.	0.8	0
132	The Third Eastâ€Asia Microscopy Conference (EAMC3). Microscopy Research and Technique, 2019, 82, 3-3.	1.2	0
133	Quantification of intraepidermal nerve fiber density using threeâ€dimensional microscopy. Microscopy Research and Technique, 2019, 82, 47-52.	1.2	0
134	Incision cutanÃ©e arciforme pour la transposition du nerf ulnaire dans le syndrome du tunnel cubitalÂ: Ã©tude cadavÃ©rique et clinique afin de prÃ©venir les lÃ©sions du nerf cutanÃ© mÃ©dial. Revue De Chirurgie Orthopedique Et Traumatologique, 2020, 106, 416.	0.0	0
135	An assessment method for dermal structures using crossâ€polarized light imaging with a green lightâ€emitting diode. Skin Research and Technology, 2020, 26, 932-936.	0.8	0
136	The Putamen and Caudate Nucleus Volume in Korean Youth by MRI Volumetry. Korean Journal of Physical Anthropology, 2016, 29, 121.	0.2	0
137	High Voltage Electron Microscopic Image of Red Blood Cell in the Blood Vessel of Mouse Brain. Applied Microscopy, 2017, 47, 75-76.	0.8	0
138	Characterization of Multiple Synaptic Boutons in Cerebral Motor Cortex in Physiological and Pathological Condition: Acrobatic Motor Training Model and Traumatic Brain Injury Model. Applied Microscopy, 2018, 48, 102-109.	0.8	0
139	Anatomical Courses of Lateral Antebrachial and Medial Antebrachial Cutaneous Nerves: A Cadaveric		