Jonathan P Dyke

List of Publications by Year in descending order

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Version: 2024-02-01

125	5,687	94269	88477
papers	citations	37 h-index	70 g-index

142	142	142	7206
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Treatment of Late Infantile Neuronal Ceroid Lipofuscinosis by CNS Administration of a Serotype 2 Adeno-Associated Virus Expressing CLN2 cDNA. Human Gene Therapy, 2008, 19, 463-474.	1.4	366
2	Study of Intraventricular Cerliponase Alfa for CLN2 Disease. New England Journal of Medicine, 2018, 378, 1898-1907.	13.9	348
3	Possible axonal regrowth in late recovery from the minimally conscious state. Journal of Clinical Investigation, 2006, 116, 2005-2011.	3.9	302
4	The Medial Prefrontal Cortex and the Emergence of Self-Conscious Emotion in Adolescence. Psychological Science, 2013, 24, 1554-1562.	1.8	288
5	Dissociations between behavioural and functional magnetic resonance imaging-based evaluations of cognitive function after brain injury. Brain, 2011, 134, 769-782.	3.7	249
6	Bidirectional electromagnetic control of the hypothalamus regulates feeding and metabolism. Nature, 2016, 531, 647-650.	13.7	212
7	Audio-Visual Multisensory Integration in Superior Parietal Lobule Revealed by Human Intracranial Recordings. Journal of Neurophysiology, 2006, 96, 721-729.	0.9	170
8	Quantitative Assessment of the Vascularity of the Proximal Part of the Humerus. Journal of Bone and Joint Surgery - Series A, 2010, 92, 943-948.	1.4	153
9	Increased ventricular lactate in chronic fatigue syndrome. III. Relationships to cortical glutathione and clinical symptoms implicate oxidative stress in disorder pathophysiology. NMR in Biomedicine, 2012, 25, 1073-1087.	1.6	134
10	Treatment planning for prostate implants using magnetic-resonance spectroscopy imaging. International Journal of Radiation Oncology Biology Physics, 2000, 47, 1085-1096.	0.4	131
11	Osteogenic and Ewing Sarcomas: Estimation of Necrotic Fraction during Induction Chemotherapy with Dynamic Contrast-enhanced MR Imaging. Radiology, 2003, 228, 271-278.	3.6	119
12	Administration of a Replication-Deficient Adeno-Associated Virus Gene Transfer Vector Expressing the HumanCLN2cDNA to the Brain of Children with Late Infantile Neuronal Ceroid Lipofuscinosis. Human Gene Therapy, 2004, 15, 1131-1154.	1.4	118
13	Adolescent-specific patterns of behavior and neural activity during social reinforcement learning. Cognitive, Affective and Behavioral Neuroscience, 2014, 14, 683-697.	1.0	95
14	Neurological deterioration in late infantile neuronal ceroid lipofuscinosis. Neurology, 2007, 69, 521-535.	1.5	91
15	Parkinson's Disease Spatial Covariance Pattern: Noninvasive Quantification with Perfusion MRI. Journal of Cerebral Blood Flow and Metabolism, 2010, 30, 505-509.	2.4	90
16	AAVrh.10-Mediated APOE2 Central Nervous System Gene Therapy for APOE4-Associated Alzheimer's Disease. Human Gene Therapy Clinical Development, 2018, 29, 24-47.	3.2	90
17	Sex-driven modifiers of Alzheimer risk. Neurology, 2020, 95, e166-e178.	1.5	87
18	Quantitative Assessment of the Vascularity of the Talus with Gadolinium-Enhanced Magnetic Resonance Imaging. Journal of Bone and Joint Surgery - Series A, 2011, 93, 1116-1121.	1.4	86

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19	Evidence for shutter-speed variation in CR bolus-tracking studies of human pathology. NMR in Biomedicine, 2005, 18, 173-185.	1.6	85
20	Long-Term Expression and Safety of Administration of AAVrh.10hCLN2 to the Brain of Rats and Nonhuman Primates for the Treatment of Late Infantile Neuronal Ceroid Lipofuscinosis. Human Gene Therapy Methods, 2012, 23, 324-335.	2.1	84
21	Transgenic Mice Overexpressing Amyloid Precursor Protein Exhibit Early Metabolic Deficits and a Pathologically Low Leptin State Associated with Hypothalamic Dysfunction in Arcuate Neuropeptide Y Neurons. Journal of Neuroscience, 2014, 34, 9096-9106.	1.7	79
22	Menopause impacts human brain structure, connectivity, energy metabolism, and amyloid-beta deposition. Scientific Reports, 2021, 11, 10867.	1.6	79
23	Arterial Anatomy of the Talus: A Cadaver and Gadolinium-Enhanced MRI Study. Foot and Ankle International, 2010, 31, 987-993.	1.1	75
24	Perfusion Abnormalities in Subchondral Bone Associated with Marrow Edema, Osteoarthritis, and Avascular Necrosis. Annals of the New York Academy of Sciences, 2007, 1117, 124-137.	1.8	74
25	Power Doppler sonography in the diagnosis of hemophilic synovitis â€“ a promising tool. Journal of Thrombosis and Haemostasis, 2008, 6, 2055-2061.	1.9	71
26	Intra-arterial delivery of AAV vectors to the mouse brain after mannitol mediated blood brain barrier disruption. Journal of Controlled Release, 2014, 196, 71-78.	4.8	70
27	Brain Î³-aminobutyric acid (GABA) detectionin vivowith theJ-editing¹H MRS technique: a comprehensive methodological evaluation of sensitivity enhancement, macromolecule contamination and test-retest reliability. NMR in Biomedicine, 2016, 29, 932-942.	1.6	65
28	Noninvasive methods of measuring bone blood perfusion. Annals of the New York Academy of Sciences, 2010, 1192, 95-102.	1.8	64
29	Imaging therapeutic response in human bone marrow using rapid whole-body MRI. Magnetic Resonance in Medicine, 2004, 52, 1234-1238.	1.9	61
30	Assessment of vascularity of the femoral head using gadolinium (Gd-DTPA)-enhanced magnetic resonance imaging. Journal of Bone and Joint Surgery: British Volume, 2009, 91-B, 131-137.	3.4	60
31	A stereotactic method for the three-dimensional registration of multi-modality biologic images in animals: NMR, PET, histology, and autoradiography. Medical Physics, 2003, 30, 2303-2314.	1.6	52
32	Adenovirus Capsid-Based Anti-Cocaine Vaccine Prevents Cocaine from Binding to the Nonhuman Primate CNS Dopamine Transporter. Neuropsychopharmacology, 2013, 38, 2170-2178.	2.8	52
33	The application of a mathematical model linking structural and functional connectomes in severe brain injury. NeuroImage: Clinical, 2016, 11, 635-647.	1.4	46
34	Preclinical evaluation of tumor microvascular response to a novel antiangiogenic/antitumor agent RO0281501 by dynamic contrast-enhanced MRI at 1.5 T. Molecular Cancer Therapeutics, 2006, 5, 1950-1957.	1.9	45
35	Subchondral fluid dynamics in a model of osteoarthritis: use of dynamic contrast-enhanced magnetic resonance imaging. Osteoarthritis and Cartilage, 2009, 17, 1350-1355.	0.6	42
36	Alterations in T2 Relaxation Magnetic Resonance Imaging of the Ovine Intervertebral Disc Due to Nonenzymatic Glycation. Spine, 2012, 37, E209-E215.	1.0	42

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37	Bone marrow segmentation in leukemia using diffusion andT2 weighted echo planar magnetic resonance imaging. NMR in Biomedicine, 2000, 13, 321-328.	1.6	39
38	Imageâ€based tissue engineering of a total intervertebral disc implant for restoration of function to the rat lumbar spine. NMR in Biomedicine, 2012, 25, 443-451.	1.6	39
39	The relative contribution of the medial and lateral femoral circumflex arteries to the vascularity of the head and neck of the femur. Bone and Joint Journal, 2016, 98-B, 1582-1588.	1.9	38
40	Slowing late infantile Batten disease by direct brain parenchymal administration of a rh.10 adeno-associated virus expressing CLN2. Science Translational Medicine, 2020, 12, .	5.8	35
41	Arterial spin labeling and altered cerebral blood flow patterns in the minimally conscious state. Neurology, 2011, 77, 1518-1523.	1.5	34
42	Association of Reproductive History With Brain MRI Biomarkers of Dementia Risk in Midlife. Neurology, 2021, 97, e2328-e2339.	1.5	34
43	Confronting the Issues of Therapeutic Misconception, Enrollment Decisions, and Personal Motives in Genetic Medicine-Based Clinical Research Studies for Fatal Disorders. Human Gene Therapy, 2005, 16, 1028-1036.	1.4	33
44	Assessment of Bone Perfusion with Contrast-Enhanced Magnetic Resonance Imaging. Orthopedic Clinics of North America, 2009, 40, 249-257.	0.5	33
45	Automated segmentation of MR imaging to determine normative central nervous system cerebrospinal fluid volumes in healthy volunteers. Clinical Imaging, 2017, 43, 132-135.	0.8	31
46	Quantitative and Qualitative Assessment of Bone Perfusion and Arterial Contributions in a Patellar Fracture Model Using Gadolinium-Enhanced Magnetic Resonance Imaging. Journal of Bone and Joint Surgery - Series A, 2013, 95, e140.	1.4	30
47	Assessment of Femoral Head and Head-Neck Junction Perfusion Following Surgical Hip Dislocation Using Gadolinium-Enhanced Magnetic Resonance Imaging. Journal of Bone and Joint Surgery - Series A, 2013, 95, e182.	1.4	30
48	Comparison of the upper airway dynamics of oronasal and nasal masks with positive airway pressure treatment using cine magnetic resonance imaging. Sleep and Breathing, 2016, 20, 79-85.	0.9	30
49	The effects of dual plating on the vascularity of the distal femur. Bone and Joint Journal, 2020, 102-B, 530-538.	1.9	30
50	Gray matter density loss in essential tremor: a lobule by lobule analysis of the cerebellum. Cerebellum and Ataxias, 2017, 4, 10.	1.9	29
51	Assessing Disease Severity in Late Infantile Neuronal Ceroid Lipofuscinosis Using Quantitative MR Diffusion-Weighted Imaging. American Journal of Neuroradiology, 2007, 28, 1232-1236.	1.2	28
52	The Impact of Emotional States on Cognitive Control Circuitry and Function. Journal of Cognitive Neuroscience, 2016, 28, 446-459.	1.1	28
53	Subchondral bone circulation in osteoarthritis of the human knee. Osteoarthritis and Cartilage, 2018, 26, 940-944.	0.6	26
54	Cerebral gray matter volume losses in essential tremor: A case-control study using high resolution tissue probability maps. Parkinsonism and Related Disorders, 2018, 51, 85-90.	1.1	26

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55	In Vivo Dentate Nucleus Gamma-aminobutyric Acid Concentration in Essential Tremor vs. Controls. Cerebellum, 2018, 17, 165-172.	1.4	26
56	Neuroimaging studies of essential tremor: how well do these studies support/refute the neurodegenerative hypothesis?. Tremor and Other Hyperkinetic Movements, 2014, 4, 235.	1.1	26
57	VEGF Expression in Osteosarcoma Correlates with Vascular Permeability by Dynamic MRI. Clinical Orthopaedics and Related Research, 2004, 426, 32-38.	0.7	25
58	Monitoring the effects of BCNU chemotherapy Wafers (GliadelÂ®) in glioblastoma multiforme with proton magnetic resonance spectroscopic imaging at 3.0ÂTesla. Journal of Neuro-Oncology, 2007, 82, 103-110.	1.4	25
59	Characterization of bone perfusion by dynamic contrastâ€enhanced magnetic resonance imaging and positron emission tomography in the Dunkinâ€“Hartley guinea pig model of advanced osteoarthritis. Journal of Orthopaedic Research, 2015, 33, 366-372.	1.2	25
60	Diagnostic accuracy of intracellular uptake rates calculated using dynamic Gdâ€EOBâ€DTPAâ€enhanced MRI for hepatic fibrosis stage. Journal of Magnetic Resonance Imaging, 2017, 45, 1177-1185.	1.9	25
61	The relationship of tibial bone perfusion to pain in knee osteoarthritis. Osteoarthritis and Cartilage, 2012, 20, 1527-1533.	0.6	24
62	Metabolic response of the CWR22 prostate tumor xenograft after 20 Gy of radiation studied by 1H spectroscopic imaging. Clinical Cancer Research, 2003, 9, 4529-36.	3.2	24
63	Regional analysis of femoral head perfusion following displaced fractures of the femoral neck. Journal of Magnetic Resonance Imaging, 2015, 41, 550-554.	1.9	23
64	Neuroimaging Studies of Essential Tremor: How Well Do These Studies Support/Refute the Neurodegenerative Hypothesis?. Tremor and Other Hyperkinetic Movements, 2020, 4, 235.	1.1	23
65	Total disc replacement using a tissue-engineered intervertebral disc in vivo: new animal model and initial results. Evidence-based Spine-care Journal, 2010, 1, 62-66.	0.9	22
66	Reproducibility and effect of tissue composition on cerebellar Î³-aminobutyric acid (GABA) MRS in an elderly population. NMR in Biomedicine, 2015, 28, 1315-1323.	1.6	22
67	A Vessel-Preserving Surgical Hip Dislocation Through a Modified Posterior Approach. Journal of Bone and Joint Surgery - Series A, 2016, 98, 475-483.	1.4	22
68	Contribution of Circulatory Disturbances in Subchondral Bone to the Pathophysiology of Osteoarthritis. Current Rheumatology Reports, 2017, 19, 49.	2.1	22
69	Genetic modification of neurons to express bevacizumab for local anti-angiogenesis treatment of glioblastoma. Cancer Gene Therapy, 2015, 22, 1-8.	2.2	21
70	Untargeted Metabolite Profiling of Cerebrospinal Fluid Uncovers Biomarkers for Severity of Late Infantile Neuronal Ceroid Lipofuscinosis (CLN2, Batten Disease). Scientific Reports, 2018, 8, 15229.	1.6	21
71	AGO CLIP Reveals an Activated Network for Acute Regulation of Brain Glutamate Homeostasis in Ischemic Stroke. Cell Reports, 2019, 28, 979-991.e6.	2.9	20
72	Assessment of Disease Severity in Late Infantile Neuronal Ceroid Lipofuscinosis Using Multiparametric MR Imaging. American Journal of Neuroradiology, 2013, 34, 884-889.	1.2	19

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73	Brain Regionâ€“Specific Degeneration with Disease Progression in Late Infantile Neuronal Ceroid Lipofuscinosis (CLN2 Disease). American Journal of Neuroradiology, 2016, 37, 1160-1169.	1.2	19
74	Anti-Epidermal Growth Factor Receptor Gene Therapy for Glioblastoma. PLoS ONE, 2016, 11, e0162978.	1.1	19
75	Safety of Direct Intraparenchymal AAVrh.10-Mediated Central Nervous System Gene Therapy for Metachromatic Leukodystrophy. Human Gene Therapy, 2021, 32, 563-580.	1.4	18
76	Quantifying cerebrospinal fluid dynamics: A review of human neuroimaging contributions to CSF physiology and neurodegenerative disease. Neurobiology of Disease, 2022, 170, 105776.	2.1	18
77	Is it time to switch your T1W sequence? Assessing the impact of prospective motion correction on the reliability and quality of structural imaging. NeuroImage, 2021, 226, 117585.	2.1	16
78	Ovarian steroid hormones: A long overlooked but critical contributor to brain aging and Alzheimerâ€™s disease. Frontiers in Aging Neuroscience, 0, 14, .	1.7	16
79	Noninvasive High Field MRI Brain Imaging of the Garter Snake (Thamnophis sirtalis). Copeia, 2000, 2000, 265-269.	1.4	15
80	MRI characterization of early CNS transport kinetics post intrathecal gadolinium injection: Trends of subarachnoid and parenchymal distribution in healthy volunteers. Clinical Imaging, 2020, 68, 1-6.	0.8	15
81	Accurate Localization of Brain Activity in Presurgical fMRI by Structure Adaptive Smoothing. IEEE Transactions on Medical Imaging, 2008, 27, 531-537.	5.4	14
82	The effect of antegrade femoral nailing on femoral head perfusion: a comparison of piriformis fossa and trochanteric entry points. Archives of Orthopaedic and Trauma Surgery, 2015, 135, 473-480.	1.3	14
83	Patients with bulimia nervosa do not show typical neurodevelopment of cognitive control under emotional influences. Psychiatry Research - Neuroimaging, 2017, 266, 59-65.	0.9	14
84	Reliability and agreement of sodium (23Na) MRI in calf muscle and skin of healthy subjects from the US. Clinical Imaging, 2018, 52, 100-105.	0.8	14
85	Using the World-Wide Web to train and certify physicians in the safe use of fluoroscopy.. American Journal of Roentgenology, 1996, 166, 1263-1264.	1.0	13
86	Radioiodinated Capsids Facilitate In Vivo Non-Invasive Tracking of Adeno-Associated Gene Transfer Vectors. Scientific Reports, 2017, 7, 39594.	1.6	13
87	Molecular Imaging of Striatal Dopaminergic Neuronal Loss and the Neurovascular Unit in Parkinson Disease. Frontiers in Neuroscience, 2020, 14, 528809.	1.4	13
88	Evaluating Permeability Surface-Area Product as a Measure of Blood-Brain Barrier Permeability in a Murine Model. American Journal of Neuroradiology, 2016, 37, 1267-1274.	1.2	12
89	Quantitative assessment of patellar vascularity following bone-patellar tendon-bone autograft harvest for ACL reconstruction. Knee Surgery, Sports Traumatology, Arthroscopy, 2016, 24, 2818-2824.	2.3	12
90	Focal osteonecrosis in the femoral head following stable anatomic fixation of displaced femoral neck fractures. Archives of Orthopaedic and Trauma Surgery, 2017, 137, 1529-1538.	1.3	11

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91	Temporal evolution of diffusion after spontaneous supratentorial intracranial hemorrhage. American Journal of Neuroradiology, 2003, 24, 895-901.	1.2	11
92	Evaluation of two collagen conduits and autograft in rabbit sciatic nerve regeneration with quantitative magnetic resonance DTI, electrophysiology, and histology. European Radiology Experimental, 2018, 2, 19.	1.7	9
93	Administration of a Replication-Deficient Adeno-Associated Virus Gene Transfer Vector Expressing the Human<I> CLN2</I> cDNA to the Brain of Children with Late Infantile Neuronal Ceroid Lipofuscinosis. Human Gene Therapy, 2004, 15, 1131-1154.	1.4	9
94	Novel Microcatheters for Selective Intra-Arterial Injection of Fluid in the Rat Brain. American Journal of Neuroradiology, 2009, 30, 1190-1196.	1.2	8
95	Biological intervertebral disc replacement: an in vivo model and comparison of two surgical techniques to approach the rat caudal disc. Evidence-based Spine-care Journal, 2011, 2, 29-35.	0.9	8
96	High-resolution rapid neonatal whole-body composition using 3.0 Tesla chemical shift magnetic resonance imaging. Pediatric Research, 2018, 83, 638-644.	1.1	8
97	Vascular endothelial growth factor associated dissimilar cerebrovascular phenotypes in two different mouse models of Alzheimer's Disease. Neurobiology of Aging, 2021, 107, 96-108.	1.5	8
98	Quantitative intact specimen magnetic resonance microscopy at 3.0 T. Magnetic Resonance Imaging, 2009, 27, 672-680.	1.0	7
99	Assessment of Osteonecrosis in the Presence of Instrumentation for Femoral Neck Fracture Using Contrast-Enhanced MAVRIC Sequence. HSS Journal, 2016, 12, 51-58.	0.7	7
100	Quantitative Assessment of Femoral Head Perfusion Following Arthroscopic Femoral Osteochondroplasty. Journal of Bone and Joint Surgery - Series A, 2017, 99, 2094-2102.	1.4	7
101	Increased Vascularity in the Neonatal versus Adult Meniscus: Evaluation with Magnetic Resonance Imaging. Cartilage, 2021, 13, 1562S-1569S.	1.4	7
102	Power Doppler Sonography Is a Promising Imaging Tool in the Diagnosis of Hemophilic Synovitis - Preliminary Analyses.. Blood, 2006, 108, 1010-1010.	0.6	7
103	Effect of Primidone on Dentate Nucleus Î³-Aminobutyric Acid Concentration in Patients With Essential Tremor. Clinical Neuropharmacology, 2016, 39, 24-28.	0.2	5
104	Magnetic resonance advection imaging of cerebrovascular pulse dynamics. Journal of Cerebral Blood Flow and Metabolism, 2017, 37, 1223-1235.	2.4	5
105	Detection of Botulinum Toxin Muscle Effect in Humans Using Magnetic Resonance Imaging: A Qualitative Case Series. PM and R, 2017, 9, 1225-1235.	0.9	5
106	Imaging of Bone Perfusion and Metabolism in Subjects Undergoing Total Ankle Arthroplasty Using ¹⁸F-Fluoride Positron Emission Tomography. Foot and Ankle International, 2019, 40, 1351-1357.	1.1	5
107	Endosteal Vasculature Dominates Along the Tibial Cortical Diaphysis: A Quantitative Magnetic Resonance Imaging Analysis. Journal of Orthopaedic Trauma, 2020, 34, 662-668.	0.7	5
108	Quantitative assessment of the vascularity of the skeletally immature patella: A cadaveric study using MRI. Journal of Children's Orthopaedics, 2021, 15, 157-165.	0.4	5

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109	Brain oxygen extraction and neural tissue susceptibility are associated with cognitive impairment in older individuals. Journal of Neuroimaging, 2022, 32, 697-709.	1.0	5
110	Neural correlates of preferred activities: development of an interest-specific go/nogo task. Social Cognitive and Affective Neuroscience, 2017, 12, 1890-1901.	1.5	3
111	Quantitative and Qualitative Assessment of the Relative Arterial Contributions to the Calcaneus. Foot and Ankle International, 2018, 39, 604-612.	1.1	3
112	Quantitative MRI Proton Density Fat Fraction: A Coming of Age. Radiology, 2021, 298, 652-653.	3.6	3
113	Perfusion Imaging. , 2008, , 249-272.		3
114	The effect of calcar femoral neck plating on vascularity of the femoral head and neck. Bone & Joint Open, 2021, 2, 611-617.	1.1	2
115	Use of small animal PET-CT imaging for in vivo assessment of tendon-to-bone healing: A pilot study. Journal of Orthopaedic Surgery, 2022, 30, 230949902210766.	0.4	2
116	Differential regional perfusion of the human anterior cruciate ligament: quantitative magnetic resonance imaging assessment. Journal of Experimental Orthopaedics, 2022, 9, .	0.8	2
117	Mechanics of circular breathing in wind musicians using cine magnetic resonance imaging techniques. Laryngoscope, 2015, 125, 412-418.	1.1	1
118	MRI AND PET. , 2016, , 117-138.		1
119	Abstract CT413: Lutetium-177-labeled anti-prostate-specific membrane antigen (PSMA) monoclonal antibody J591 (177Lu-J591) for metastatic non-prostate solid tumors. Cancer Research, 2014, 74, CT413-CT413.	0.4	1
120	Assessment of perfusion in osteoarthritis induced bone marrow lesions using dynamic contrast enhanced magnetic resonance imaging. Osteoarthritis and Cartilage, 2012, 20, S13.	0.6	0
121	Quantitative Assessment of Patellar Vascularity Following Bone-Patellar Tendon-Bone Autograft Harvest (SS-21). Arthroscopy - Journal of Arthroscopic and Related Surgery, 2013, 29, e10-e11.	1.3	0
122	718. AAV-Mediated Local Anti-EGFR Antibody Gene Expression in CNS Delays Tumor Growth and Increases Survival in a Human Glioblastoma Xenograft Model. Molecular Therapy, 2015, 23, S287.	3.7	0
123	Confronting the Issues of Therapeutic Misconception, Enrollment Decisions, and Personal Motives in Genetic Medicine-Based Clinical Research Studies for Fatal Disorders. Human Gene Therapy, 2005, .	1.4	0
124	Atrophy of mammillary bodies in early stages of Alzheimerâ€™s disease. Alzheimer's and Dementia, 2021, 17, .	0.4	0
125	Vascularity of the early post-natal human distal femoral chondroepiphysis: Quantitative MRI analysis. Journal of Children's Orthopaedics, 2022, 16, 152-158.	0.4	0