

# Takayuki Obata

## List of Publications by Year in descending order

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172  
papers

3,905  
citations

159525

30  
h-index

149623

56  
g-index

176  
all docs

176  
docs citations

176  
times ranked

5510  
citing authors

#	ARTICLE	IF	CITATIONS
1	Discrepancies between BOLD and flow dynamics in primary and supplementary motor areas: application of the balloon model to the interpretation of BOLD transients. <i>NeuroImage</i> , 2004, 21, 144-153.	2.1	226
2	Nonlinear temporal dynamics of the cerebral blood flow response. <i>Human Brain Mapping</i> , 2001, 13, 1-12.	1.9	183
3	Age-related degeneration of corpus callosum measured with diffusion tensor imaging. <i>NeuroImage</i> , 2006, 31, 1445-1452.	2.1	179
4	Negative Correlation between Brain Glutathione Level and Negative Symptoms in Schizophrenia: A 3T 1H-MRS Study. <i>PLoS ONE</i> , 2008, 3, e1944.	1.1	176
5	Results of the first prospective study of carbon ion radiotherapy for hepatocellular carcinoma with liver cirrhosis. <i>International Journal of Radiation Oncology Biology Physics</i> , 2004, 59, 1468-1476.	0.4	173
6	Spin-locking versus chemical exchange saturation transfer MRI for investigating chemical exchange process between water and labile metabolite protons. <i>Magnetic Resonance in Medicine</i> , 2011, 65, 1448-1460.	1.9	169
7	Delayed Gadolinium-enhanced MR to Determine Glycosaminoglycan Concentration in Reparative Cartilage after Autologous Chondrocyte Implantation: Preliminary Results. <i>Radiology</i> , 2006, 239, 201-208.	3.6	136
8	Classification of Intervertebral Disk Degeneration with Axial T2 Mapping. <i>American Journal of Roentgenology</i> , 2007, 189, 936-942.	1.0	132
9	Effects of chewing in working memory processing. <i>Neuroscience Letters</i> , 2008, 436, 189-192.	1.0	113
10	Specific metabolites in the medial prefrontal cortex are associated with the neurocognitive deficits in schizophrenia: A preliminary study. <i>NeuroImage</i> , 2010, 49, 2783-2790.	2.1	98
11	T <sub>2</sub> mapping of hip articular cartilage in healthy volunteers at 3T: A study of topographic variation. <i>Journal of Magnetic Resonance Imaging</i> , 2007, 26, 165-171.	1.9	97
12	Effects of chewing on cognitive processing speed. <i>Brain and Cognition</i> , 2013, 81, 376-381.	0.8	90
13	Lung as reservoir for antidepressants in pharmacokinetic drug interactions. <i>Lancet</i> , The, 1998, 351, 332-335.	6.3	88
14	Early and Progressive Impairment of Spinal Blood Flow-Glucose Metabolism Coupling in Motor Neuron Degeneration of ALS Model Mice. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2012, 32, 456-467.	2.4	60
15	A new case of GABA transaminase deficiency facilitated by proton MR spectroscopy. <i>Journal of Inherited Metabolic Disease</i> , 2010, 33, 85-90.	1.7	57
16	Chewing-induced regional brain activity in edentulous patients who received mandibular implant-supported overdentures: A preliminary report. <i>Journal of Prosthodontic Research</i> , 2011, 55, 89-97.	1.1	55
17	Detection of bone metastases using diffusion weighted magnetic resonance imaging: comparison with 11C-methionine PET and bone scintigraphy. <i>Magnetic Resonance Imaging</i> , 2010, 28, 372-379.	1.0	53
18	ADC value and diffusion tensor imaging of prostate cancer: Changes in carbon-13 ion radiotherapy. <i>Journal of Magnetic Resonance Imaging</i> , 2008, 27, 1331-1335.	1.9	52

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19	Multimodal Silica-Shelled Quantum Dots: Direct Intracellular Delivery, Photosensitization, Toxic, and Microcirculation Effects. <i>Bioconjugate Chemistry</i> , 2008, 19, 1135-1142.	1.8	52
20	Clinical potentials of the prototype 256-detector row CT-scanner1. <i>Academic Radiology</i> , 2005, 12, 148-154.	1.3	49
21	Quantitative magnetic resonance spectroscopy of schizophrenia: Relationship between decreased N-acetylaspartate and frontal lobe dysfunction. <i>Psychiatry and Clinical Neurosciences</i> , 2006, 60, 365-372.	1.0	48
22	Properties of the prototype 256-row (cone beam) CT scanner. <i>European Radiology</i> , 2006, 16, 2100-2108.	2.3	43
23	Reproducibility and variance of a stimulation-induced hemodynamic response in barrel cortex of awake behaving mice. <i>Brain Research</i> , 2011, 1369, 103-111.	1.1	43
24	Visualization of in vivo electroporation-mediated transgene expression in experimental tumors by optical and magnetic resonance imaging. <i>Gene Therapy</i> , 2009, 16, 830-839.	2.3	41
25	Contribution of Dopamine D1 and D2 Receptors to Amygdala Activity in Human. <i>Journal of Neuroscience</i> , 2010, 30, 3043-3047.	1.7	37
26	Feasibility of a brain-dedicated PET-MRI system using four-layer DOI detectors integrated with an RF head coil. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2014, 756, 6-13.	0.7	35
27	Effect of multislice acquisition on T <sub>1</sub> and T <sub>2</sub> measurements of articular cartilage at 3T. <i>Journal of Magnetic Resonance Imaging</i> , 2007, 26, 109-117.	1.9	34
28	Development of a dielectric equivalent gel for better impedance matching for human skin. <i>Bioelectromagnetics</i> , 2003, 24, 214-217.	0.9	32
29	Reduced gray matter volume of dorsal cingulate cortex in patients with obsessive-compulsive disorder: A voxel-based morphometric study. <i>Psychiatry and Clinical Neurosciences</i> , 2010, 64, 541-547.	1.0	32
30	Hemodynamic changes during somatosensory stimulation in awake and isoflurane-anesthetized mice measured by laser-Doppler flowmetry. <i>Brain Research</i> , 2012, 1472, 107-112.	1.1	32
31	Volumetric perfusion CT using prototype 256-detector row CT scanner: preliminary study with healthy porcine model. <i>American Journal of Neuroradiology</i> , 2005, 26, 2536-41.	1.2	31
32	Measurement of the electrical properties of human skin and the variation among subjects with certain skin conditions. <i>Physics in Medicine and Biology</i> , 2002, 47, N11-N15.	1.6	30
33	Long-Term Adaptation of Cerebral Hemodynamic Response to Somatosensory Stimulation during Chronic Hypoxia in Awake Mice. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2013, 33, 774-779.	2.4	30
34	Systematic changes to the apparent diffusion tensor of in vivo rat brain measured with an oscillating-gradient spin-echo sequence. <i>NeuroImage</i> , 2013, 70, 10-20.	2.1	29
35	Altered Brain Activation by a False Recognition Task in Young Abstinent Patients With Alcohol Dependence. <i>Alcoholism: Clinical and Experimental Research</i> , 2007, 31, 1589-1597.	1.4	27
36	Diffusion tensor imaging can predict surgical outcomes of patients with cervical compression myelopathy. <i>European Spine Journal</i> , 2017, 26, 2459-2466.	1.0	26

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37	Neonatal Brain Metabolite Concentrations: An In Vivo Magnetic Resonance Spectroscopy Study with a Clinical MR System at 3 Tesla. <i>PLoS ONE</i> , 2013, 8, e82746.	1.1	26
38	Reduced Field-of-View Diffusion Tensor Imaging of the Spinal Cord Shows Motor Dysfunction of the Lower Extremities in Patients With Cervical Compression Myelopathy. <i>Spine</i> , 2018, 43, 89-96.	1.0	25
39	Intra- and inter-operator reproducibility of US point shear-wave elastography in various organs: evaluation in phantoms and healthy volunteers. <i>European Radiology</i> , 2019, 29, 5999-6008.	2.3	25
40	Quantitative evaluation of fatty degeneration of the supraspinatus and infraspinatus muscles using T2 mapping. <i>Journal of Shoulder and Elbow Surgery</i> , 2014, 23, 636-641.	1.2	24
41	Quiet T1-Weighted Pointwise Encoding Time Reduction with Radial Acquisition for Assessing Myelination in the Pediatric Brain. <i>American Journal of Neuroradiology</i> , 2016, 37, 1528-1534.	1.2	23
42	Development of a full-ring "add-on PET" prototype: A head coil with DOI-PET detectors for integrated PET/MRI. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2017, 863, 55-61.	0.7	23
43	Measuring shear-wave speed with point shear-wave elastography and MR elastography: a phantom study. <i>BMJ Open</i> , 2017, 7, e013925.	0.8	23
44	MR Imaging of Brain Injury Induced by Carbon Ion Radiotherapy for Head and Neck Tumors. <i>Magnetic Resonance in Medical Sciences</i> , 2005, 4, 159-164.	1.1	22
45	Degeneration of patellar cartilage in patients with recurrent patellar dislocation following conservative treatment: evaluation with delayed gadolinium-enhanced magnetic resonance imaging of cartilage. <i>Osteoarthritis and Cartilage</i> , 2009, 17, 1546-1553.	0.6	22
46	The influence of frontal sinus in brain activation measurements by near-infrared spectroscopy analyzed by realistic head models. <i>Biomedical Optics Express</i> , 2012, 3, 2121.	1.5	22
47	Spatial Frequency-Based Analysis of Mean Red Blood Cell Speed in Single Microvessels: Investigation of Microvascular Perfusion in Rat Cerebral Cortex. <i>PLoS ONE</i> , 2011, 6, e24056.	1.1	22
48	Functional network in the prefrontal cortex during episodic memory retrieval. <i>NeuroImage</i> , 2005, 26, 932-940.	2.1	21
49	Association between Brain and Plasma Glutamine Levels in Healthy Young Subjects Investigated by MRS and LC/MS. <i>Nutrients</i> , 2019, 11, 1649.	1.7	21
50	Dialysate Pressure Isobars in a Hollow-Fiber Dialyzer Determined from Magnetic Resonance Imaging and Numerical Simulation of Dialysate Flow. <i>Artificial Organs</i> , 1998, 22, 907-909.	1.0	20
51	Clinical Potentials for Dynamic Contrast-Enhanced Hepatic Volumetric Cine Imaging with the Prototype 256-MDCT Scanner. <i>American Journal of Roentgenology</i> , 2005, 185, 253-256.	1.0	20
52	High b-value diffusion-weighted fMRI in a rat forepaw electrostimulation model at 7 T. <i>NeuroImage</i> , 2011, 57, 140-148.	2.1	20
53	Relationship between symptom dimensions and white matter alterations in obsessive-compulsive disorder. <i>Acta Neuropsychiatrica</i> , 2017, 29, 153-163.	1.0	20
54	Comparison of brain activity between motor imagery and mental rotation of the hand tasks: a functional magnetic resonance imaging study. <i>Brain Imaging and Behavior</i> , 2018, 12, 1596-1606.	1.1	20

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55	Contribution of nitric oxide to cerebral blood flow regulation under hypoxia in rats. <i>Journal of Physiological Sciences</i> , 2010, 60, 399-406.	0.9	18
56	Comparison of diffusion-weighted MRI and anti-Stokes Raman scattering (CARS) measurements of the inter-compartmental exchange-time of water in expression-controlled aquaporin-4 cells. <i>Scientific Reports</i> , 2018, 8, 17954.	1.6	18
57	Detection of small degree of nonuniformity in dialysate flow in hollow-fiber dialyzer using proton magnetic resonance imaging. <i>Magnetic Resonance Imaging</i> , 2004, 22, 417-420.	1.0	17
58	Laterality and aging of thalamic subregions measured by diffusion tensor imaging. <i>NeuroReport</i> , 2007, 18, 1071-1075.	0.6	17
59	Reduction of a High-field Dielectric Artifact with Homemade Gel. <i>Magnetic Resonance in Medical Sciences</i> , 2008, 7, 37-41.	1.1	16
60	Intracortical Microcirculatory Change Induced by Anesthesia in Rat Somatosensory Cortex. <i>Advances in Experimental Medicine and Biology</i> , 2010, 662, 57-61.	0.8	16
61	Role of glucose metabolism and cellularity for tumor malignancy evaluation using FDG-PET/CT and MRI. <i>Nuclear Medicine Communications</i> , 2010, 31, 604-609.	0.5	16
62	Monitoring of liver glycogen synthesis in diabetic patients using carbon-13 MR spectroscopy. <i>European Journal of Radiology</i> , 2010, 73, 300-304.	1.2	15
63	Prognostic value of PET/CT with 18F-fluoroazomycin arabinoside for patients with head and neck squamous cell carcinomas receiving chemoradiotherapy. <i>Annals of Nuclear Medicine</i> , 2016, 30, 217-224.	1.2	15
64	<i>In vivo</i> estimation of gamma-aminobutyric acid levels in the neonatal brain. <i>NMR in Biomedicine</i> , 2017, 30, e3666.	1.6	15
65	Relation between Dopamine Synthesis Capacity and Cell-Level Structure in Human Striatum: A Multi-Modal Study with Positron Emission Tomography and Diffusion Tensor Imaging. <i>PLoS ONE</i> , 2014, 9, e87886.	1.1	15
66	Deuterium Magnetic Resonance Imaging of Rabbit Eye in Vivo. <i>Magnetic Resonance in Medicine</i> , 1995, 33, 569-572.	1.9	14
67	Three-vessel study of cerebral blood flow using phase-contrast magnetic resonance imaging: Effect of physical characteristics. <i>Magnetic Resonance Imaging</i> , 1996, 14, 1143-1148.	1.0	13
68	A preliminary study for clinical pharmacokinetics of oral fluorine anticancer medicines using the commercial MRI system 19F-MRS. <i>British Journal of Radiology</i> , 1999, 72, 584-589.	1.0	13
69	A multi-compartmental SE-BOLD interpretation for stimulus-related signal changes in diffusion-weighted functional MRI. <i>NMR in Biomedicine</i> , 2009, 22, 770-778.	1.6	13
70	Development of 1.45-mm resolution four-layer DOI-PET detector for simultaneous measurement in 3T MRI. <i>Radiological Physics and Technology</i> , 2015, 8, 111-119.	1.0	13
71	LONG-TERM ASSESSMENT OF POSTTRANSPLANT RENAL PROGNOSIS WITH 31P MAGNETIC RESONANCE SPECTROSCOPY. <i>Transplantation</i> , 2001, 72, 627-630.	0.5	12
72	Regional heterogeneity and age-related change in sub-regions of internal capsule evaluated by diffusion tensor imaging. <i>Brain Research</i> , 2010, 1354, 30-39.	1.1	12

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73	MRI compatibility study of an integrated PET/RF-coil prototype system at 3 T. <i>Journal of Magnetic Resonance</i> , 2017, 283, 62-70.	1.2	12
74	Analysis of Multiple B-Value Diffusion-Weighted Imaging in Pediatric Acute Encephalopathy. <i>PLoS ONE</i> , 2013, 8, e63869.	1.1	12
75	Role of glucose metabolism and cellularity for tumor malignancy evaluation using FDG-PET/CT and MRI. <i>Nuclear Medicine Communications</i> , 2010, 31, 604-9.	0.5	12
76	<sup>19</sup> F-magnetic resonance spectroscopy and chemical shift imaging for schizophrenic patients using haloperidol decanoate. <i>Psychiatry and Clinical Neurosciences</i> , 2002, 56, 637-642.	1.0	11
77	Seizure frequency and bilateral temporal abnormalities: a proton magnetic resonance spectroscopy of temporal lobe epilepsy. <i>Seizure: the Journal of the British Epilepsy Association</i> , 2000, 9, 274-279.	0.9	10
78	<sup>7</sup> Li 2D CSI of human brain on a clinical scanner. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2001, 13, 1-7.	1.1	10
79	Tract-Specific Diffusion Tensor Imaging Reveals Laterality of Neurological Symptoms in Patients with Cervical Compression Myelopathy. <i>World Neurosurgery</i> , 2016, 96, 184-190.	0.7	10
80	Estimation of partial optical path length in the brain in subject-specific head models for near-infrared spectroscopy. <i>Optical Review</i> , 2016, 23, 316-322.	1.2	10
81	Early detection of radiation-induced liver injury in rat by superparamagnetic iron oxide-enhanced MR imaging. <i>Journal of Magnetic Resonance Imaging</i> , 1999, 9, 573-578.	1.9	9
82	Time Course Evaluation of Reparative Cartilage with MR Imaging after Autologous Chondrocyte Implantation. <i>Cell Transplantation</i> , 2005, 14, 695-700.	1.2	9
83	Prediction of early response to radiotherapy of uterine carcinoma with dynamic contrast-enhanced MR imaging using pixel analysis of MR perfusion imaging. <i>Magnetic Resonance Imaging</i> , 2009, 27, 370-376.	1.0	9
84	Monitoring the brain metabolites of children with acute encephalopathy caused by the H1N1 virus responsible for the 2009 influenza pandemic: a quantitative in vivo <sup>1</sup> H MR spectroscopy study. <i>Magnetic Resonance Imaging</i> , 2012, 30, 1527-1533.	1.0	9
85	Normal lactate concentration range in the neonatal brain. <i>Magnetic Resonance Imaging</i> , 2016, 34, 1269-1273.	1.0	9
86	Diffusion-tensor-based method for robust and practical estimation of axial and radial diffusional kurtosis. <i>European Radiology</i> , 2016, 26, 2559-2566.	2.3	9
87	Water Diffusion in the Brain of Chronic Hypoperfusion Model Mice: A Study Considering the Effect of Blood Flow. <i>Magnetic Resonance in Medical Sciences</i> , 2018, 17, 318-324.	1.1	9
88	Longitudinal stability of a multimodal visco-elastic polyacrylamide gel phantom for magnetic resonance and ultrasound shear-wave elastography. <i>PLoS ONE</i> , 2021, 16, e0250667.	1.1	9
89	Optimizing T2-weighted magnetic resonance sequences for surface coil microimaging of the eye with regard to lid, eyeball and head moving artifacts. <i>Magnetic Resonance Imaging</i> , 2006, 24, 97-101.	1.0	8
90	Effect of cyclooxygenase-2 on the regulation of cerebral blood flow during neuronal activation in the rat. <i>Neuroscience Research</i> , 2009, 65, 64-70.	1.0	8

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91	Use of a novel radiometric method to assess the inhibitory effect of donepezil on acetylcholinesterase activity in minimally diluted tissue samples. <i>British Journal of Pharmacology</i> , 2010, 159, 1732-1742.	2.7	8
92	A small animal holding fixture system with positional reproducibility for longitudinal multimodal imaging. <i>Physics in Medicine and Biology</i> , 2010, 55, 4119-4130.	1.6	8
93	Study on Field Measurement and Ground Vibration for Superconducting Solenoid of New g-2 Experiment at J-PARC. <i>IEEE Transactions on Applied Superconductivity</i> , 2011, 21, 1748-1751.	1.1	8
94	Analysis of normal-appearing white matter of multiple sclerosis by tensor-based two-compartment model of water diffusion. <i>European Radiology</i> , 2015, 25, 1701-1707.	2.3	8
95	Proton magnetic resonance imaging of flow motion of heavy water injected into a hollow fiber dialyzer filled with saline. <i>Magnetic Resonance Imaging</i> , 2004, 22, 413-416.	1.0	7
96	Metabolic activity in skeletal muscles of patients with non-hypoxaemic chronic obstructive pulmonary disease studied by <sup>31</sup> P-magnetic resonance spectroscopy. <i>Respirology</i> , 2005, 10, 164-170.	1.3	7
97	A case of adult-onset type II citrullinemia with comorbid epilepsy even after liver transplantation. <i>Epilepsia</i> , 2010, 51, 2484-2487.	2.6	7
98	Molecular Imaging of Aquaglycero-Aquaporins: Its Potential for Cancer Characterization. <i>Biological and Pharmaceutical Bulletin</i> , 2013, 36, 1292-1298.	0.6	7
99	Signal contributions to heavily diffusion-weighted functional magnetic resonance imaging investigated with multi-SE-EPI acquisitions. <i>NeuroImage</i> , 2014, 98, 258-265.	2.1	7
100	Magnetic displacement force and torque on dental keepers in the static magnetic field of an MR scanner. <i>Journal of Magnetic Resonance Imaging</i> , 2014, 40, 1481-1486.	1.9	7
101	A proposal for PET/MRI attenuation correction with $\hat{\mu}_{\text{e}}^{\text{PET}}$ -values measured using a fixed-position radiation source and MRI segmentation. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2014, 734, 156-161.	0.7	7
102	Magnetic resonance imaging appropriate for construction of subject-specific head models for diffuse optical tomography. <i>Biomedical Optics Express</i> , 2015, 6, 3197.	1.5	7
103	Comparison of Glass Capillary Plates and Polyethylene Fiber Bundles as Phantoms to Assess the Quality of Diffusion Tensor Imaging. <i>Magnetic Resonance in Medical Sciences</i> , 2018, 17, 251-258.	1.1	7
104	Microstrip Transmission Line RF Coil for a PET/MRI Insert. <i>Magnetic Resonance in Medical Sciences</i> , 2020, 19, 147-153.	1.1	7
105	Exploring cell membrane water exchange in aquaporin-4-deficient ischemic mouse brain using diffusion-weighted MRI. <i>European Radiology Experimental</i> , 2021, 5, 44.	1.7	7
106	Deuterium MR <i>in Vivo</i> Imaging of the Rat Eye Using <sup>2</sup> H <sub>2</sub> O. <i>Acta Radiologica</i> , 1995, 36, 552-555.	0.5	6
107	Acute hemocerebellitis in a pediatric patient: a case report of a serial MR spectroscopy study. <i>Acta Radiologica</i> , 2012, 53, 223-227.	0.5	6
108	Geometry optimization of electrically floating PET inserts for improved RF penetration for a $\hat{\mu}_{\text{e}}^{\text{PET}}$ MRI system. <i>Medical Physics</i> , 2018, 45, 4627-4641.	1.6	6

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109	Imaging of Hypoxic Tumor: Correlation between Diffusion-weighted MR Imaging and <sup>18</sup> F-fluoroazomycin Arabinoside Positron Emission Tomography in Head and Neck Carcinoma. <i>Magnetic Resonance in Medical Sciences</i> , 2020, 19, 276-281.	1.1	6
110	Differences in metabolic and morphological reactions after radiation therapy: proton NMR spectroscopy and imaging of patients with intracranial tumors. <i>Radiation Medicine</i> , 1995, 13, 199-204.	0.8	6
111	Intraocular Water Movement Visualization Using <sup>1</sup> H-MRI With Eye Drops of <sup>17</sup> O-Labeled Saline: First Human Study. <i>Journal of Magnetic Resonance Imaging</i> , 2023, 57, 845-853.	1.9	6
112	Preliminary study: Color map of hepatocellular carcinoma using dynamic contrast-enhanced 256-detector row CT. <i>European Journal of Radiology</i> , 2007, 62, 308-310.	1.2	5
113	Anatomic dependency of phase shifts in the cerebral venous system of neonates at susceptibility-weighted MRI. <i>Journal of Magnetic Resonance Imaging</i> , 2011, 34, 1031-1036.	1.9	5
114	Multi-pixel photon counter module for MRI compatible application. , 2015, , .		5
115	Correction of head movement by frame-to-frame image realignment for receptor imaging in positron emission tomography studies with [ <sup>11</sup> C]raclopride and [ <sup>11</sup> C]FLB 457. <i>Annals of Nuclear Medicine</i> , 2019, 33, 916-929.	1.2	5
116	Targeting brain regions of interest in functional near-infrared spectroscopy: Scalp-cortex correlation using subject-specific light propagation models. <i>Human Brain Mapping</i> , 2021, 42, 1969-1986.	1.9	5
117	Development of a viscoelastic phantom for ultrasound and MR elastography satisfying the QIBA acoustic specifications. , 2020, , .		5
118	Phosphorous-31 Magnetic Resonance Spectroscopy of Cervical Cancer Using Transvaginal Surface Coil. <i>Magnetic Resonance in Medical Sciences</i> , 2005, 4, 197-201.	1.1	5
119	Shear wave speed measurement bias in a viscoelastic phantom across six ultrasound elastography systems: a comparative study with transient elastography and magnetic resonance elastography. <i>Journal of Medical Ultrasonics (2001)</i> , 2022, 49, 143-152.	0.6	5
120	Feasibility study for a PET detector integrated with an RF coil for PET-MRI. , 2011, , .		4
121	Hybrid segmentation-atlas method for PET-MRI attenuation correction. , 2012, , .		4
122	Study of Magnetic Field Measurement System for g-2/EDM Experiment at J-PARC. <i>IEEE Transactions on Applied Superconductivity</i> , 2016, 26, 1-4.	1.1	4
123	Numerical simulations of magnetic resonance elastography using finite element analysis with a linear heterogeneous viscoelastic model. <i>Journal of Visualization</i> , 2018, 21, 133-145.	1.1	4
124	Reference region extraction by clustering for the pharmacokinetic analysis of dynamic contrast-enhanced MRI in prostate cancer. <i>Magnetic Resonance Imaging</i> , 2020, 66, 185-192.	1.0	4
125	Dynamic alterations in the central glutamatergic status following food and glucose intake: <i>in vivo</i> multimodal assessments in humans and animal models. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2021, 41, 2928-2943.	2.4	4
126	Development of a Patch Antenna Array RF Coil for Ultra-high Field MRI. <i>Magnetic Resonance in Medical Sciences</i> , 2007, 6, 231-233.	1.1	4



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127	Deuterium MR In Vivo Imaging of the Rat Eye Using 2H2O. Acta Radiologica, 1995, 36, 552-555.	0.5	4
128	Why 4D Flow MRI? Real Advantages. Magnetic Resonance in Medical Sciences, 2022, 21, 253-256.	1.1	4
129	The measurement of blood flow parameters with deuterium stable isotope MR imaging. Annals of Nuclear Medicine, 1997, 11, 281-284.	1.2	3
130	Noise properties for three weighted Feldkamp algorithms using a 256-detecotor row CT-scanner: Case study for hepatic volumetric cine imaging. European Journal of Radiology, 2006, 59, 289-294.	1.2	3
131	Magnetic Resonance Elastography to Observe Deep Areas: Comparison of External Vibration Systems. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 2599-602.	0.5	3
132	The Utility of Applying Various Image Preprocessing Strategies to Reduce the Ambiguity in Deep Learning-based Clinical Image Diagnosis. Magnetic Resonance in Medical Sciences, 2020, 19, 92-98.	1.1	3
133	Altered brain metabolite concentration and delayed neurodevelopment in preterm neonates. Pediatric Research, 2022, 91, 197-203.	1.1	3
134	Monte Carlo Simulator for Diffusion-weighted Imaging Sequences. Magnetic Resonance in Medical Sciences, 2021, 20, 222-226.	1.1	3
135	Study on the radiofrequency transparency of electrically floating and ground PET inserts in a 3ÂT clinical MRI system. Medical Physics, 2022, 49, 2965-2978.	1.6	3
136	Human hepatic carbohydrate metabolism. Acta Radiologica, 1997, 38, 998-1002.	0.5	2
137	Dynamic MRI of transcorneal dispersion of oxygen into the anterior chamber of human eye. Journal of Magnetic Resonance Imaging, 1998, 8, 508-510.	1.9	2
138	MR in vivo imaging of oxygen suppression effect of soft contact lens on the human cornea. Magnetic Resonance Imaging, 2000, 18, 357-360.	1.0	2
139	7Li 2D CSI of human brain on a clinical scanner. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2001, 13, 1-7.	1.1	2
140	Flash memory-based data acquisition system with NOBLE. , 2003, , .		2
141	Neural damage due to temporal lobe epilepsy: Dual-nuclei (proton and phosphorus) magnetic resonance spectroscopy study. Psychiatry and Clinical Neurosciences, 2004, 58, 48-53.	1.0	2
142	The development of a three-dimensional T1 image calculation program in proportion to the DICOM data of any marketing clinical MRI systems. Magnetic Resonance Imaging, 2004, 22, 595-597.	1.0	2
143	Evaluating glycogen signal contamination in muscle by 13C MRS of the liver. Magnetic Resonance Imaging, 2008, 26, 572-576.	1.0	2
144	Study on a prototype oval body PET insert for a 3T MRI system. , 2017, , .		2

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145	Ultrasound-based shear-wave speed measurement on a highly viscous embedded phantom. , 2019, , .		2
146	The Utility of a Convolutional Neural Network for Generating a Myelin Volume Index Map from Rapid Simultaneous Relaxometry Imaging. Magnetic Resonance in Medical Sciences, 2020, 19, 324-332.	1.1	2
147	Noninvasive analysis of water movement in rat testis using deuterium magnetic resonance imaging. Magnetic Resonance Imaging, 1996, 14, 115-119.	1.0	1
148	Prototype integrated system of DOI- PET and the RF-coil specialized for simultaneous PET-MRI measurements. , 2012, , .		1
149	Development of a novel MR head coil integrated with PET detectors: Design and optimization of shield boxes. , 2013, , .		1
150	Viscoelasticity and shear wave velocity of liver tissue evaluated by dynamic mechanical analysis. , 2015, , .		1
151	Transient contribution of left posterior parietal cortex to cognitive restructuring. Scientific Reports, 2015, 5, 9199.	1.6	1
152	Development of the second "add-on PET" prototype: A head coil with DOI-PET detectors for MRI. , 2016, , .		1
153	New algorithm using L1 regularization for measuring electron energy spectra. Review of Scientific Instruments, 2020, 91, 075116.	0.6	1
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