Nico Sollmann

List of Publications by Year
in descending order

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174 papers	3,488 citations	136950 32 h-index	206112 48 g-index
192 all docs	192 docs citations	192 times ranked	2291 citing authors

#	Article	IF	Citations
1	A Comparison of Language Mapping by Preoperative Navigated Transcranial Magnetic Stimulation and Direct Cortical Stimulation During Awake Surgery. Neurosurgery, 2013, 72, 808-819.	1.1	271
2	Combined noninvasive language mapping by navigated transcranial magnetic stimulation and functional MRI and its comparison with direct cortical stimulation. Journal of Neurosurgery, 2015, 123, 212-225.	1.6	97
3	Optimal timing of pulse onset for language mapping with navigated repetitive transcranial magnetic stimulation. NeuroImage, 2014, 100, 219-236.	4.2	93
4	Functional Language Shift to the Right Hemisphere in Patients with Language-Eloquent Brain Tumors. PLoS ONE, 2013, 8, e75403.	2.5	92
5	Impairment of preoperative language mapping by lesion location: a functional magnetic resonance imaging, navigated transcranial magnetic stimulation, and direct cortical stimulation study. Journal of Neurosurgery, 2015, 123, 314-324.	1.6	76
6	The physiological effects of noninvasive brain stimulation fundamentally differ across the human cortex. Science Advances, 2020, 6, eaay2739.	10.3	73
7	Navigated transcranial magnetic stimulation for preoperative language mapping in a patient with a left frontoopercular glioblastoma. Journal of Neurosurgery, 2013, 118, 175-179.	1.6	69
8	Repeated mapping of cortical language sites by preoperative navigated transcranial magnetic stimulation compared to repeated intraoperative DCS mapping in awake craniotomy. BMC Neuroscience, 2014, 15, 20.	1.9	69
9	X-ray-based quantitative osteoporosis imaging at the spine. Osteoporosis International, 2020, 31, 233-250.	3.1	68
10	The impact of preoperative language mapping by repetitive navigated transcranial magnetic stimulation on the clinical course of brain tumor patients. BMC Cancer, 2015, 15, 261.	2.6	62
11	Sex differences in white matter alterations following repetitive subconcussive head impacts in collegiate ice hockey players. NeuroImage: Clinical, 2018, 17, 642-649.	2.7	62
12	Language and its right-hemispheric distribution in healthy brains: An investigation by repetitive transcranial magnetic stimulation. NeuroImage, 2014, 102, 776-788.	4.2	61
13	<scp>MRI</scp>â€Based Quantitative Osteoporosis Imaging at the Spine and Femur. Journal of Magnetic Resonance Imaging, 2021, 54, 12-35.	3.4	61
14	Associations between clinical outcome and navigated transcranial magnetic stimulation characteristics in patients with motor-eloquent brain lesions: a combined navigated transcranial magnetic stimulationâ€“diffusion tensor imaging fiber tracking approach. Journal of Neurosurgery, 2018, 128, 800-810.	1.6	60
15	Changing the clinical course of glioma patients by preoperative motor mapping with navigated transcranial magnetic brain stimulation. BMC Cancer, 2015, 15, 231.	2.6	58
16	Automatic opportunistic osteoporosis screening in routine CT: improved prediction of patients with prevalent vertebral fractures compared to DXA. European Radiology, 2021, 31, 6069-6077.	4.5	50
17	Sexâ€Related Differences in the Effects of Sportsâ€Related Concussion: A Review. Journal of Neuroimaging, 2020, 30, 387-409.	2.0	48
18	Resection of highly language-eloquent brain lesions based purely on rTMS language mapping without awake surgery. Acta Neurochirurgica, 2016, 158, 2265-2275.	1.7	47

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19	Risk Assessment by Presurgical Tractography Using Navigated TMS Maps in Patients with Highly Motor- or Language-Eloquent Brain Tumors. Cancers, 2020, 12, 1264.	3.7	46
20	Resection of Motor Eloquent Metastases Aided by Preoperative nTMS-Based Motor Mapsâ€"Comparison of Two Observational Cohorts. Frontiers in Oncology, 2016, 6, 261.	2.8	45
21	Cortical distribution of speech and language errors investigated by visual object naming and navigated transcranial magnetic stimulation. Brain Structure and Function, 2016, 221, 2259-2286.	2.3	42
22	Language pathway tracking: comparing nTMS-based DTI fiber tracking with a cubic ROIs-based protocol. Journal of Neurosurgery, 2017, 126, 1006-1014.	1.6	42
23	Cortical plasticity of motor-eloquent areas measured by navigated transcranial magnetic stimulation in patients with glioma. Journal of Neurosurgery, 2017, 127, 981-991.	1.6	42
24	Hemispheric language dominance measured by repetitive navigated transcranial magnetic stimulation and postoperative course of language function in brain tumor patients. Neuropsychologia, 2016, 91, 50-60.	1.6	39
25	Associations Between Lumbar Vertebral Bone Marrow and Paraspinal Muscle Fat Compositionsâ€"An Investigation by Chemical Shift Encoding-Based Water-Fat MRI. Frontiers in Endocrinology, 2018, 9, 563.	3.5	39
26	Setup presentation and clinical outcome analysis of treating highly language-eloquent gliomas via preoperative navigated transcranial magnetic stimulation and tractography. Neurosurgical Focus, 2018, 44, E2.	2.3	39
27	Inter- and intraobserver variability in motor mapping of the hotspot for the abductor policis brevis muscle. BMC Neuroscience, 2013, 14, 94.	1.9	38
28	Visualization of subcortical language pathways by diffusion tensor imaging fiber tracking based on rTMS language mapping. Brain Imaging and Behavior, 2017, 11, 899-914.	2.1	38
29	Comparison between electric-field-navigated and line-navigated TMS for cortical motor mapping in patients with brain tumors. Acta Neurochirurgica, 2016, 158, 2277-2289.	1.7	37
30	Feasibility of nTMS-based DTI fiber tracking of language pathways in neurosurgical patients using a fractional anisotropy threshold. Journal of Neuroscience Methods, 2016, 267, 45-54.	2.5	36
31	Intra- and interobserver variability of language mapping by navigated transcranial magnetic brain stimulation. BMC Neuroscience, 2013, 14, 150.	1.9	34
32	nTMS-based DTI fiber tracking for language pathways correlates with language function and aphasia â€“ A case report. Clinical Neurology and Neurosurgery, 2015, 136, 25-28.	1.4	33
33	Virtual brain grafting: Enabling whole brain parcellation in the presence of large lesions. NeuroImage, 2021, 229, 117731.	4.2	33
34	Task Type Affects Location of Language-Positive Cortical Regions by Repetitive Navigated Transcranial Magnetic Stimulation Mapping. PLoS ONE, 2015, 10, e0125298.	2.5	33
35	Clinical Factors Underlying the Inter-individual Variability of the Resting Motor Threshold in Navigated Transcranial Magnetic Stimulation Motor Mapping. Brain Topography, 2017, 30, 98-121.	1.8	32
36	Mapping of Motor Function with Neuronavigated Transcranial Magnetic Stimulation: A Review on Clinical Application in Brain Tumors and Methods for Ensuring Feasible Accuracy. Brain Sciences, 2021, 11, 897.	2.3	31

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37	Resection of Gliomas with and without Neuropsychological Support during Awake Craniotomyâ€"Effects on Surgery and Clinical Outcome. Frontiers in Oncology, 2017, 7, 176.	2.8	30
38	Non-invasive mapping of calculation function by repetitive navigated transcranial magnetic stimulation. Brain Structure and Function, 2016, 221, 3927-3947.	2.3	29
39	The variability of motor evoked potential latencies in neurosurgical motor mapping by preoperative navigated transcranial magnetic stimulation. BMC Neuroscience, 2017, 18, 5.	1.9	28
40	Magnetic stimulation of the upper trapezius muscles in patients with migraine â€“ A pilot study. European Journal of Paediatric Neurology, 2016, 20, 888-897.	1.6	27
41	Associations of thigh muscle fat infiltration with isometric strength measurements based on chemical shift encoding-based water-fat magnetic resonance imaging. European Radiology Experimental, 2019, 3, 45.	3.4	27
42	The impact of repetitive navigated transcranial magnetic stimulation coil positioning and stimulation parameters on human language function. European Journal of Medical Research, 2015, 20, 47.	2.2	26
43	Motor areas of the frontal cortex in patients with motor eloquent brain lesions. Journal of Neurosurgery, 2016, 125, 1431-1442.	1.6	26
44	Stimulation frequency determines the distribution of language positive cortical regions during navigated transcranial magnetic brain stimulation. BMC Neuroscience, 2015, 16, 5.	1.9	25
45	Preoperative language mapping by repetitive navigated transcranial magnetic stimulation and diffusion tensor imaging fiber tracking and their comparison to intraoperative stimulation. Neuroradiology, 2016, 58, 807-818.	2.2	25
46	Improved Brachial Plexus Visualization Using an Adiabatic iMSDE-Prepared STIR 3D TSE. Clinical Neuroradiology, 2019, 29, 631-638.	1.9	25
47	Implementing Functional Preoperative Mapping in the Clinical Routine of a Neurosurgical Department: Technical Note. World Neurosurgery, 2017, 103, 94-105.	1.3	23
48	Quantitative magnetic resonance imaging of the upper trapezius muscles â€“ assessment of myofascial trigger points in patients with migraine. Journal of Headache and Pain, 2019, 20, 8.	6.0	23
49	Resection of Navigated Transcranial Magnetic Stimulation-Positive Prerolandic Motor Areas Causes Permanent Impairment of Motor Function. Neurosurgery, 2017, 81, 99-110.	1.1	22
50	Loss of Subcortical Language Pathways Correlates with Surgery-Related Aphasia in Patients with Brain Tumor: An Investigation via Repetitive Navigated Transcranial Magnetic Stimulationâ€"Based Diffusion Tensor Imaging Fiber Tracking. World Neurosurgery, 2018, 111, e806-e818.	1.3	22
51	Investigating Stimulation Protocols for Language Mapping by Repetitive Navigated Transcranial Magnetic Stimulation. Frontiers in Behavioral Neuroscience, 2018, 12, 197.	2.0	22
52	Retrospective distortion correction of diffusion tensor imaging data by semi-elastic image fusion â€“ Evaluation by means of anatomical landmarks. Clinical Neurology and Neurosurgery, 2019, 183, 105387.	1.4	22
53	Magnetic Resonance Imaging of the Brain Using Compressed SensingÂâ€“ Quality Assessment in Daily Clinical Routine. Clinical Neuroradiology, 2020, 30, 279-286.	1.9	22
54	Alleviation of migraine symptoms by application of repetitive peripheral magnetic stimulation to myofascial trigger points of neck and shoulder muscles â€“ A randomized trial. Scientific Reports, 2020, 10, 5954.	3.3	22

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55	Multi-detector CT imaging: impact of virtual tube current reduction and sparse sampling on detection of vertebral fractures. European Radiology, 2019, 29, 3606-3616.	4.5	21
56	High resolution MRI for quantitative assessment of inferior alveolar nerve impairment in course of mandible fractures: an imaging feasibility study. Scientific Reports, 2020, 10, 11566.	3.3	21
57	Opportunistic Osteoporosis Screening Reveals Low Bone Density in Patients With Screw Loosening After Lumbar Semi-Rigid Instrumentation: A Case-Control Study. Frontiers in Endocrinology, 2020, 11, 552719.	3.5	21
58	Interhemispheric connectivity revealed by diffusion tensor imaging fiber tracking derived from navigated transcranial magnetic stimulation maps as a sign of language function at risk in patients with brain tumors. Journal of Neurosurgery, 2017, 126, 222-233.	1.6	20
59	Highly accelerated time-of-flight magnetic resonance angiography using spiral imaging improves conspicuity of intracranial arterial branches while reducing scan time. European Radiology, 2020, 30, 855-865.	4.5	20
60	Neuro-Metabolite Changes in a Single Season of University Ice Hockey Using Magnetic Resonance Spectroscopy. Frontiers in Neurology, 2018, 9, 616.	2.4	19
61	Navigated repetitive transcranial magnetic stimulation improves the outcome of postsurgical paresis in glioma patients â€“ A randomized, double-blinded trial. Brain Stimulation, 2021, 14, 780-787.	1.6	19
62	Associations between clinical outcome and tractography based on navigated transcranial magnetic stimulation in patients with language-eloquent brain lesions. Journal of Neurosurgery, 2020, 132, 1033-1042.	1.6	19
63	The Role of Navigated Transcranial Magnetic Stimulation Motor Mapping in Adjuvant Radiotherapy Planning in Patients With Supratentorial Brain Metastases. Frontiers in Oncology, 2018, 8, 424.	2.8	18
64	Function-specific Tractography of Language Pathways Based on nTMS Mapping in Patients with Supratentorial Lesions. Clinical Neuroradiology, 2020, 30, 123-135.	1.9	18
65	Navigated transcranial magnetic stimulation of the supplementary motor cortex disrupts fine motor skills in healthy adults. Scientific Reports, 2019, 9, 17744.	3.3	16
66	Automated Opportunistic Osteoporosis Screening in Routine Computed Tomography of the Spine: Comparison With Dedicated Quantitative CT. Journal of Bone and Mineral Research, 2020, 37, 1287-1296.	2.8	16
67	Reorganization of Motor Representations in Patients with Brain Lesions: A Navigated Transcranial Magnetic Stimulation Study. Brain Topography, 2018, 31, 288-299.	1.8	15
68	Repetitive Peripheral Magnetic Stimulation (rPMS) in Subjects With Migraineâ€"Setup Presentation and Effects on Skeletal Musculature. Frontiers in Neurology, 2019, 10, 738.	2.4	15
69	Application of presurgical navigated transcranial magnetic stimulation motor mapping for adjuvant radiotherapy planning in patients with high-grade gliomas. Radiotherapy and Oncology, 2019, 138, 30-37.	0.6	15
70	High Isotropic Resolution T2 Mapping of the Lumbosacral Plexus with T2-Prepared 3D Turbo Spin Echo. Clinical Neuroradiology, 2019, 29, 223-230.	1.9	15
71	Intranetwork and Internetwork Effects of Navigated Transcranial Magnetic Stimulation Using Low- and High-Frequency Pulse Application to the Dorsolateral Prefrontal Cortex: A Combined rTMSâ€"fMRI Approach. Journal of Clinical Neurophysiology, 2020, 37, 131-139.	1.7	15
72	The bottom-up approach: Non-invasive peripheral neurostimulation methods to treat migraine: A scoping review from the child neurologist's perspective. European Journal of Paediatric Neurology, 2021, 32, 16-28.	1.6	15

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73	Results on the spatial resolution of repetitive transcranial magnetic stimulation for cortical language mapping during object naming in healthy subjects. BMC Neuroscience, 2016, 17, 67.	1.9	14
74	Cortical time course of object naming investigated by repetitive navigated transcranial magnetic stimulation. Brain Imaging and Behavior, 2017, 11, 1192-1206.	2.1	14
75	Imaging of the degenerative spine using a sagittal T2-weighted DIXON turbo spin-echo sequence. European Journal of Radiology, 2020, 131, 109204.	2.6	14
76	Vertebral Bone Marrow Heterogeneity Using Texture Analysis of Chemical Shift Encoding-Based MRI: Variations in Age, Sex, and Anatomical Location. Frontiers in Endocrinology, 2020, 11, 555931.	3.5	14
77	Level-Specific Volumetric BMD Threshold Values for the Prediction of Incident Vertebral Fractures Using Opportunistic QCT: A Case-Control Study. Frontiers in Endocrinology, 0, 13, .	3.5	14
78	Cortical regions involved in semantic processing investigated by repetitive navigated transcranial magnetic stimulation and object naming. Neuropsychologia, 2015, 70, 185-195.	1.6	13
79	Non-invasive Mapping of Face Processing by Navigated Transcranial Magnetic Stimulation. Frontiers in Human Neuroscience, 2017, 11, 4.	2.0	13
80	Paired-pulse navigated TMS is more effective than single-pulse navigated TMS for mapping upper extremity muscles in brain tumor patients. Clinical Neurophysiology, 2020, 131, 2887-2898.	1.5	13
81	Assessment of paraspinal muscle characteristics, lumbar BMD, and their associations in routine multi-detector CT of patients with and without osteoporotic vertebral fractures. European Journal of Radiology, 2020, 125, 108867.	2.6	13
82	Serum Neurosteroid Levels Are Associated With Cortical Thickness in Individuals Diagnosed With Posttraumatic Stress Disorder and History of Mild Traumatic Brain Injury. Clinical EEG and Neuroscience, 2020, 51, 285-299.	1.7	12
83	Proposed diagnostic volumetric bone mineral density thresholds for osteoporosis and osteopenia at the cervicothoracic spine in correlation to the lumbar spine. European Radiology, 2022, 32, 6207-6214.	4.5	12
84	Identifying cortical first and second language sites via navigated transcranial magnetic stimulation of the left hemisphere in bilinguals. Brain and Language, 2017, 168, 106-116.	1.6	11
85	Effects of virtual tube current reduction and sparse sampling on MDCT-based femoral BMD measurements. Osteoporosis International, 2018, 29, 2685-2692.	3.1	11
86	MDCT-based Finite Element Analysis of Vertebral Fracture Risk: What Dose is Needed?. Clinical Neuroradiology, 2019, 29, 645-651.	1.9	11
87	Low-dose and sparse sampling MDCT-based femoral bone strength prediction using finite element analysis. Archives of Osteoporosis, 2020, 15, 17.	2.4	11
88	Novel Ultrafast Spiral Head MR Angiography Compared to Standard MR and CT Angiography. Journal of Neuroimaging, 2021, 31, 45-56.	2.0	11
89	Age at First Exposure to Tackle Football is Associated with Cortical Thickness in Former Professional American Football Players. Cerebral Cortex, 2021, 31, 3426-3434.	2.9	11
90	Translational neuroimaging in mild traumatic brain injury. Journal of Neuroscience Research, 2022, 100, 1201-1217.	2.9	11

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91	Preconditioned waterâ€fat total field inversion: Application to spine quantitative susceptibility mapping. Magnetic Resonance in Medicine, 2022, 87, 417-430.	3.0	11
92	Application of Navigated Transcranial Magnetic Stimulation to Map the Supplementary Motor Area in Healthy Subjects. Journal of Clinical Neurophysiology, 2020, 37, 140-149.	1.7	10
93	T2 mapping of the distal sciatic nerve in healthy subjects and patients suffering from lumbar disc herniation with nerve compression. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2020, 33, 713-724.	2.0	10
94	Bihemispheric Navigated Transcranial Magnetic Stimulation Mapping for Action Naming Compared to Object Naming in Sentence Context. Brain Sciences, 2021, 11, 1190.	2.3	10
95	Checklist on the Quality of the Repetitive Peripheral Magnetic Stimulation (rPMS) Methods in Research: An International Delphi Study. Frontiers in Neurology, 2022, 13, 852848.	2.4	10
96	Language function distribution in left-handers: A navigated transcranial magnetic stimulation study. Neuropsychologia, 2016, 82, 65-73.	1.6	9
97	Cost-effectiveness of preoperative motor mapping with navigated transcranial magnetic brain stimulation in patients with high-grade glioma. Neurosurgical Focus, 2018, 44, E18.	2.3	9
98	Quantitative Muscle MRI in Patients with Neuromuscular Diseasesâ€"Association of Muscle Proton Density Fat Fraction with Semi-Quantitative Grading of Fatty Infiltration and Muscle Strength at the Thigh Region. Diagnostics, 2021, 11, 1056.	2.6	9
99	Prediction of Incidental Osteoporotic Fractures at Vertebral-Specific Level Using 3D Non-Linear Finite Element Parameters Derived from Routine Abdominal MDCT. Diagnostics, 2021, 11, 208.	2.6	9
100	Paraspinal Muscle in Chronic Low Back Pain: Comparison Between Standard Parameters and Chemical Shift Encodingâ€Based Waterâ€"Fat <scp>MRI</scp>. Journal of Magnetic Resonance Imaging, 2022, 56, 1600-1608.	3.4	9
101	Mapping of cortical language function by functional magnetic resonance imaging and repetitive navigated transcranial magnetic stimulation in 40 healthy subjects. Acta Neurochirurgica, 2016, 158, 1303-1316.	1.7	8
102	Association of decision-making in spinal surgery with specialty and emotional involvementâ€"the Indications in Spinal Surgery (INDIANA) survey. Acta Neurochirurgica, 2018, 160, 425-438.	1.7	8
103	Age- and BMI-related variations of fat distribution in sacral and lumbar bone marrow and their association with local muscle fat content. Scientific Reports, 2020, 10, 9686.	3.3	8
104	Age- and gender-related variations of cervical muscle composition using chemical shift encoding-based water-fat MRI. European Journal of Radiology, 2020, 125, 108904.	2.6	8
105	MRÂimaging by 3D T1-weighted black blood sequences may improve delineation of therapy-naive high-grade gliomas. European Radiology, 2021, 31, 2312-2320.	4.5	8
106	Texture Features of Proton Density Fat Fraction Maps from Chemical Shift Encoding-Based MRI Predict Paraspinal Muscle Strength. Diagnostics, 2021, 11, 239.	2.6	8
107	Texture Analysis Using CT and Chemical Shift Encoding-Based Water-Fat MRI Can Improve Differentiation Between Patients With and Without Osteoporotic Vertebral Fractures. Frontiers in Endocrinology, 2021, 12, 778537.	3.5	8
108	Subtraction Maps Derived from Longitudinal Magnetic Resonance Imaging in Patients with Glioma Facilitate Early Detection of Tumor Progression. Cancers, 2020, 12, 3111.	3.7	7

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109	Radiation dose reduction for CT-guided intrathecal nusinersen administration in adult patients with spinal muscular atrophy. Scientific Reports, 2020, 10, 3406.	3.3	7
110	Regional variation of thigh muscle fat infiltration in patients with neuromuscular diseases compared to healthy controls. Quantitative Imaging in Medicine and Surgery, 2021, 11, 2610-2621.	2.0	7
111	Exposure to Repetitive Head Impacts Is Associated With Corpus Callosum Microstructure and Plasma Total Tau in Former Professional American Football Players. Journal of Magnetic Resonance Imaging, 2021, 54, 1819-1829.	3.4	7
112	Gender-, Age- and Region-Specific Characterization of Vertebral Bone Microstructure Through Automated Segmentation and 3D Texture Analysis of Routine Abdominal CT. Frontiers in Endocrinology, 2021, 12, 792760.	3.5	7
113	Effect of Statistically Iterative Image Reconstruction on Vertebral Bone Strength Prediction Using Bone Mineral Density and Finite Element Modeling. Journal of Computer Assisted Tomography, 2019, 43, 61-65.	0.9	6
114	Systematic Evaluation of Low-dose MDCT for Planning Purposes of Lumbosacral Periradicular Infiltrations. Clinical Neuroradiology, 2020, 30, 749-759.	1.9	6
115	Super-selective ASL and 4D ASL-based MR Angiography in aÂPatient with Moyamoya Disease. Clinical Neuroradiology, 2021, 31, 515-519.	1.9	6
116	Short-Interval Intracortical Facilitation Improves Efficacy in nTMS Motor Mapping of Lower Extremity Muscle Representations in Patients with Supra-Tentorial Brain Tumors. Cancers, 2020, 12, 3233.	3.7	6
117	Assessment of the Extent of Resection in Surgery of High-Grade Gliomaâ€"Evaluation of Black Blood Sequences for Intraoperative Magnetic Resonance Imaging at 3 Tesla. Cancers, 2020, 12, 1580.	3.7	6
118	Low-dose MDCT: evaluation of the impact of systematic tube current reduction and sparse sampling on the detection of degenerative spine diseases. European Radiology, 2021, 31, 2590-2600.	4.5	6
119	Improved Reliability of Automated ASPECTS Evaluation Using Iterative Model Reconstruction from Head CT Scans. Journal of Neuroimaging, 2021, 31, 341-347.	2.0	6
120	Occult Disco-Ligamentous Lesions of the Subaxial c-Spineâ€"A Comparison of Preoperative Imaging Findings and Intraoperative Site Inspection. Diagnostics, 2021, 11, 447.	2.6	6
121	Prediction of incident vertebral fractures in routine MDCT: Comparison of global texture features, 3D finite element parameters and volumetric BMD. European Journal of Radiology, 2021, 141, 109827.	2.6	6
122	Tracking the Corticospinal Tract in Patients With High-Grade Glioma: Clinical Evaluation of Multi-Level Fiber Tracking and Comparison to Conventional Deterministic Approaches. Frontiers in Oncology, 2021, 11, 761169.	2.8	6
123	Multi-scanner and multi-modal lumbar vertebral body and intervertebral disc segmentation database. Scientific Data, 2022, 9, 97.	5.3	6
124	Imaging of the Osteoporotic Spine â€“ Quantitative Approaches in Diagnostics and for the Prediction of the Individual Fracture Risk. RoFo Fortschritte Auf Dem Gebiet Der Rontgenstrahlen Und Der Bildgebenden Verfahren, 2022, 194, 1088-1099.	1.3	6
125	The cortical distribution of first and second language in the right hemisphere of bilinguals â€“ an exploratory study by repetitive navigated transcranial magnetic stimulation. Brain Imaging and Behavior, 2020, 14, 1034-1049.	2.1	5
126	Revision by S2-alar-iliac instrumentation reduces caudal screw loosening while improving sacroiliac joint painâ€"a group comparison study. Neurosurgical Review, 2021, 44, 2145-2151.	2.4	5

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127	Regional variation in paraspinal muscle composition using chemical shift encoding-based water-fat MRI. Quantitative Imaging in Medicine and Surgery, 2020, 10, 496-507.	2.0	5
128	Association of thigh and paraspinal muscle composition in young adults using chemical shift encoding-based waterâ€“fat MRI. Quantitative Imaging in Medicine and Surgery, 2020, 10, 128-136.	2.0	5
129	MDCT-Based Finite Element Analyses: Are Measurements at the Lumbar Spine Associated with the Biomechanical Strength of Functional Spinal Units of Incidental Osteoporotic Fractures along the Thoracolumbar Spine?. Diagnostics, 2021, 11, 455.	2.6	5
130	Low-Dose MDCT of Patients With Spinal Instrumentation Using Sparse Sampling: Impact on Metal Artifacts. American Journal of Roentgenology, 2021, 216, 1308-1317.	2.2	5
131	Topping-off technique for stabilization of lumbar degenerative instabilities in 322 patients. Journal of Neurosurgery: Spine, 2020, 32, 366-372.	1.7	5
132	T2 mapping of lumbosacral nerves in patients suffering from unilateral radicular pain due to degenerative disc disease. Journal of Neurosurgery: Spine, 2019, 30, 750-758.	1.7	5
133	Benefit of Action Naming Over Object Naming for Visualization of Subcortical Language Pathways in Navigated Transcranial Magnetic Stimulation-Based Diffusion Tensor Imaging-Fiber Tracking. Frontiers in Human Neuroscience, 2021, 15, 748274.	2.0	5
134	Impact of dose reduction and iterative model reconstruction on multi-detector CT imaging of the brain in patients with suspected ischemic stroke. Scientific Reports, 2021, 11, 22271.	3.3	5
135	Correlating subcortical interhemispheric connectivity and cortical hemispheric dominance in brain tumor patients: A repetitive navigated transcranial magnetic stimulation study. Clinical Neurology and Neurosurgery, 2016, 141, 56-64.	1.4	4
136	Predicting brain tumor regrowth in relation to motor areas by functional brain mapping. Neuro-Oncology Practice, 2018, 5, 82-95.	1.6	4
137	Tube Current Reduction in CT Angiography: How Low Can We Go in Imaging of Patients With Suspected Acute Stroke?. American Journal of Roentgenology, 2019, 213, 410-416.	2.2	4
138	Gadolinium-Enhanced 3D T1-Weighted Black-Blood MR Imaging for the Detection of Acute Optic Neuritis. American Journal of Neuroradiology, 2020, 41, 2333-2338.	2.4	4
139	Function-Based Tractography of the Language Network Correlates with Aphasia in Patients with Language-Eloquent Glioblastoma. Brain Sciences, 2020, 10, 412.	2.3	4
140	Local Bone Mineral Density, Subcutaneous and Visceral Adipose Tissue Measurements in Routine Multi Detector Computed Tomographyâ€"Which Parameter Predicts Incident Vertebral Fractures Best?. Diagnostics, 2021, 11, 240.	2.6	4
141	Patients with episodic migraine show increased T2 values of the trapezius muscles â€“ an investigation by quantitative high-resolution magnetic resonance imaging. Cephalalgia, 2021, 41, 934-942.	3.9	4
142	Decreasing Spatial Variability of Individual Watershed Areas by Revascularization Therapy in Patients With Highâ€Grade Carotid Artery Stenosis. Journal of Magnetic Resonance Imaging, 2021, 54, 1878-1889.	3.4	4
143	Uncertainty-Aware and Lesion-Specific Image Synthesis in Multiple Sclerosis Magnetic Resonance Imaging: A Multicentric Validation Study. Frontiers in Neuroscience, 2022, 16, 889808.	2.8	4
144	Repetitive neuromuscular magnetic stimulation in children with headache. European Journal of Paediatric Neurology, 2022, , .	1.6	4

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145	Patient-Specific Finite Element Modeling of the Whole Lumbar Spine Using Clinical Routine Multi-Detector Computed Tomography (MDCT) Dataâ€"A Pilot Study. Biomedicines, 2022, 10, 1567.	3.2	4
146	Repetitive Neuromuscular Magnetic Stimulation for Pediatric Headache Disorders: Muscular Effects and Factors Affecting Level of Response. Brain Sciences, 2022, 12, 932.	2.3	4
147	SARS-CoV-2 infection and the brain: direct evidence for brain changes in milder cases. Signal Transduction and Targeted Therapy, 2022, 7, .	17.1	4
148	Navigated TMS in the ICU: Introducing Motor Mapping to the Critical Care Setting. Brain Sciences, 2020, 10, 1005.	2.3	3
149	Implementation of a sagittal T2-weighted DIXON turbo spin-echo sequence may shorten MRI acquisitions in the emergency setting of suspected spinal bleeding. European Radiology Experimental, 2021, 5, 19.	3.4	3
150	Multi-detector computed tomography (MDCT) imaging: association of bone texture parameters with finite element analysis (FEA)-based failure load of single vertebrae and functional spinal units. Quantitative Imaging in Medicine and Surgery, 2021, 11, 2955-2967.	2.0	3
151	Association of Cervical and Lumbar Paraspinal Muscle Composition Using Texture Analysis of MR-Based Proton Density Fat Fraction Maps. Diagnostics, 2021, 11, 1929.	2.6	3
152	Dual-Task nTMS Mapping to Visualize the Cortico-Subcortical Language Network and Capture Postoperative Outcomeâ€"A Patient Series in Neurosurgery. Frontiers in Oncology, 2021, 11, 788122.	2.8	3
153	Low-dose multi-detector computed tomography for periradicular infiltrations at the cervical and lumbar spine. Scientific Reports, 2022, 12, 4324.	3.3	3
154	nTMS-derived DTI-based motor fiber tracking in radiotherapy treatment planning of high-grade gliomas for avoidance of motor structures. Radiotherapy and Oncology, 2022, , .	0.6	3
155	Magnetic resonance neurography of the lumbosacral plexus at 3 Tesla â€“ CSF-suppressed imaging with submillimeter resolution by a three-dimensional turbo spin echo sequence. Magnetic Resonance Imaging, 2020, 71, 132-139.	1.8	2
156	Capturing multiple interaction effects in L1 and L2 object-naming reaction times in healthy bilinguals: a mixed-effects multiple regression analysis. BMC Neuroscience, 2020, 21, 3.	1.9	2
157	Association of Thigh Muscle Strength with Texture Features Based on Proton Density Fat Fraction Maps Derived from Chemical Shift Encoding-Based Waterâ€"Fat MRI. Diagnostics, 2021, 11, 302.	2.6	2
158	Non-invasive perfusion territory quantification and time-resolved angiography by arterial spin labeling in a patient with a large right-hemispheric AVM: case report. Journal of Neurology, 2022, 269, 4539-4545.	3.6	2
159	Finite Element Analysis of Osteoporotic and Osteoblastic Vertebrae and Its Association With the Proton Density Fat Fraction From Chemical Shift Encoding-Based Water-Fat MRI â€“ A Preliminary Study. Frontiers in Endocrinology, 0, 13, .	3.5	2
160	The Complexity Signature: Developing a Tool to Communicate Biopsychosocial Severity of Disease for Children with Chronic Neurological Complexity. Neuropediatrics, 2016, 47, 238-244.	0.6	1
161	Burden of disease and lifestyle habits in adolescents and young adults prone to frequent episodic migraine: A secondary comparative analysis. Journal of Child Health Care, 2021, , 136749352110087.	1.4	1
162	On quantification errors of R2*$$ {R}_2^{ast } $$ and proton density fat fraction mapping in trabecularized bone marrow in the static dephasing regime. Magnetic Resonance in Medicine, 2022, 88, 1126-1139.	3.0	1

#	Article	IF	Citations
163	P71. Correlation of hemispheric dominance of language examined by rTMS and postoperative course of language function in patients with left-sided Perisylvian brains lesions. Clinical Neurophysiology, 2015, 126, e129-e130.	1.5	0
164	P61. Preoperative repetitive navigated transcranial magnetic stimulation for language mapping and outcome improvement in brain tumor patients. Clinical Neurophysiology, 2015, 126, e124.	1.5	0
165	Pre-contrast T1-weighted imaging of the spinal cord may be unnecessary in patients with multiple sclerosis. European Radiology, 2021, 31, 9316-9323.	4.5	0
166	Low-dose MDCT: evaluation of the impact of systematic tube current reduction and sparse sampling on quantitative paraspinal muscle assessment. Quantitative Imaging in Medicine and Surgery, 2021, 11, 3042-3050.	2.0	0
167	Structured reporting in neuro-oncological imaging: achieving reliable prediction of molecular subtypes in glioma based on pre-treatment multi-sequence MRI. European Radiology, 2021, 31, 7371-7373.	4.5	0
168	Integration of Functional Data in theÂClinical Workflow. , 2017, , 51-66.		0
169	Association of quadriceps muscle, gluteal muscle, and femoral bone marrow composition using chemical shift encoding-based water-fat MRI: a preliminary study in healthy young volunteers. European Radiology Experimental, 2020, 4, 35.	3.4	0
170	Regional Variation of Thigh Muscle Composition in Healthy Controls and Patients with Myotonic Dystrophy Type 2, Limb Girdle Muscular Dystrophy Type 2A, and Pompeâ€™s Disease. , 2020, 24, .		0
171	Neuronavigated repetitive transcranial magnetic stimulation as novel mapping technique provides insights into language function in primary progressive aphasia. Brain Imaging and Behavior, 2022, 16, 1208-1216.	2.1	0
172	P656. Psychological Functioning, Neurosteroids, and White Matter Microstructure in the Context of Post-Traumatic Stress Disorder and Mild Traumatic Brain Injury. Biological Psychiatry, 2022, 91, S355-S356.	1.3	0
173	Modern Developments in Transcranial Magnetic Stimulation: The Editorial. Brain Sciences, 2022, 12, 628.	2.3	0
174	Editorial on Special Issue â€œSpine Imaging: Novel Image Acquisition Techniques and Analysis Toolsâ€• Diagnostics, 2022, 12, 1361.	2.6	0