Stefan Sunaert

List of Publications by Year
in descending order

213	12,230	22099	33814
papers	citations	59 h-index	99 g-index

222	222	222	14363
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Weighted linear least squares estimation of diffusion MRI parameters: Strengths, limitations, and pitfalls. NeuroImage, 2013, 81, 335-346.	2.1	407
2	Longitudinal Assessment of Chemotherapy-Induced Structural Changes in Cerebral White Matter and Its Correlation With Impaired Cognitive Functioning. Journal of Clinical Oncology, 2012, 30, 274-281.	0.8	334
3	Motion-responsive regions of the human brain. Experimental Brain Research, 1999, 127, 355-370.	0.7	333
4	Brain Areas Involved in Interlimb Coordination: A Distributed Network. NeuroImage, 2001, 14, 947-958.	2.1	295
5	Internal vs external generation of movements: differential neural pathways involved in bimanual coordination performed in the presence or absence of augmented visual feedback. NeuroImage, 2003, 19, 764-776.	2.1	288
6	Mapping the parietal cortex of human and non-human primates. Neuropsychologia, 2006, 44, 2647-2667.	0.7	282
7	The role of anterior cingulate cortex and precuneus in the coordination of motor behaviour. European Journal of Neuroscience, 2005, 22, 235-246.	1.2	270
8	Chemotherapyâ€induced structural changes in cerebral white matter and its correlation with impaired cognitive functioning in breast cancer patients. Human Brain Mapping, 2011, 32, 480-493.	1.9	228
9	Quantitative diffusion tensor imaging in cerebral palsy due to periventricular white matter injury. Brain, 2005, 128, 2562-2577.	3.7	217
10	Quantitative diffusion tensor imaging in amyotrophic lateral sclerosis. NeuroImage, 2007, 34, 486-499.	2.1	192
11	Transcranial Magnetic Stimulation for Tinnitus: Influence of Tinnitus Duration on Stimulation Parameter Choice and Maximal Tinnitus Suppression. Otology and Neurotology, 2005, 26, 616-619.	0.7	185
12	Lateralization of functional magnetic resonance imaging (fMRI) activation in the auditory pathway of patients with lateralized tinnitus. Neuroradiology, 2007, 49, 669-679.	1.1	184
13	Age-related microstructural differences quantified using myelin water imaging and advanced diffusion MRI. Neurobiology of Aging, 2015, 36, 2107-2121.	1.5	183
14	Similarities and differences in motion processing between the human and macaque brain: evidence from fMRI. Neuropsychologia, 2003, 41, 1757-1768.	0.7	182
15	Anterior Cruciate Ligament Deficiency Causes Brain Plasticity. American Journal of Sports Medicine, 2009, 37, 2419-2426.	1.9	164
16	Human Cortical Regions Involved in Extracting Depth from Motion. Neuron, 1999, 24, 929-940.	3.8	161
17	Attention Mechanisms in Visual Searchâ€"An fMRI Study. Journal of Cognitive Neuroscience, 2000, 12, 61-75.	1.1	151
18	Magnetic and electrical stimulation of the auditory cortex for intractable tinnitus. Journal of Neurosurgery, 2004, 100, 560-564.	0.9	143

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19	Transient alcohol craving suppression by rTMS of dorsal anterior cingulate: An fMRI and LORETA EEG study. Neuroscience Letters, 2011, 496, 5-10.	1.0	143
20	Lateralization of brain activity during lower limb joints movement. An fMRI study. NeuroImage, 2006, 32, 1709-1721.	2.1	142
21	Amygdalohippocampal involvement in tinnitus and auditory memory. Acta Oto-Laryngologica, 2006, 126, 50-53.	0.3	141
22	Neuroimaging of autism. Neuroradiology, 2010, 52, 3-14.	1.1	140
23	Altered functional connectivity of the language network in ASD: Role of classical language areas and cerebellum. NeuroImage: Clinical, 2014, 4, 374-382.	1.4	139
24	Presurgical planning for tumor resectioning. Journal of Magnetic Resonance Imaging, 2006, 23, 887-905.	1.9	137
25	Upper and extra-motoneuron involvement in early motoneuron disease: a diffusion tensor imaging study. Brain, 2011, 134, 1211-1228.	3.7	135
26	Primary and Secondary Auditory Cortex Stimulation for Intractable Tinnitus. Orl, 2006, 68, 48-55.	0.6	133
27	The use of SPECT and PET in routine clinical practice in epilepsy. Current Opinion in Neurology, 2007, 20, 194-202.	1.8	129
28	Amygdala Hyperfunction in Phobic Fear Normalizes After Exposure. Biological Psychiatry, 2007, 62, 1119-1125.	0.7	129
29	Global tractography of multi-shell diffusion-weighted imaging data using a multi-tissue model. NeuroImage, 2015, 123, 89-101.	2.1	128
30	Parieto-premotor Areas Mediate Directional Interference During Bimanual Movements. Cerebral Cortex, 2004, 14, 1153-1163.	1.6	123
31	Quantitative diffusion tensor imaging in amyotrophic lateral sclerosis: Revisited. Human Brain Mapping, 2009, 30, 3657-3675.	1.9	122
32	Lesion evidence for the critical role of the intraparietal sulcus in spatial attention. Brain, 2011, 134, 1694-1709.	3.7	122
33	Graph analysis of functional brain networks for cognitive control of action in traumatic brain injury. Brain, 2012, 135, 1293-1307.	3.7	117
34	Limbic and Callosal White Matter Changes in Euthymic Bipolar I Disorder: An Advanced Diffusion Magnetic Resonance Imaging Tractography Study. Biological Psychiatry, 2013, 73, 194-201.	0.7	116
35	The effect of spaceflight and microgravity on the human brain. Journal of Neurology, 2017, 264, 18-22.	1.8	113
36	Integrity of the inferior longitudinal fasciculus and impaired object recognition in children: a diffusion tensor imaging study. Developmental Medicine and Child Neurology, 2012, 54, 38-43.	1.1	112

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37	Accelerated Aging, Decreased White Matter Integrity, and Associated Neuropsychological Dysfunction 25 Years After Pediatric Lymphoid Malignancies. Journal of Clinical Oncology, 2013, 31, 3378-3388.	0.8	105
38	Cortical reorganization in an astronautâ€™s brain after long-duration spaceflight. Brain Structure and Function, 2016, 221, 2873-2876.	1.2	103
39	Attention to Speed of Motion, Speed Discrimination, and Task Difficulty: An fMRI Study. NeuroImage, 2000, 11, 612-623.	2.1	97
40	Theta-gamma dysrhythmia and auditory phantom perception. Journal of Neurosurgery, 2011, 114, 912-921.	0.9	94
41	Brain ventricular volume changes induced by long-duration spaceflight. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 10531-10536.	3.3	94
42	Tractography dissection variability: What happens when 42 groups dissect 14 white matter bundles on the same dataset?. NeuroImage, 2021, 243, 118502.	2.1	94
43	Diffusion tensor MRI of chemotherapy-induced cognitive impairment in non-CNS cancer patients: a review. Brain Imaging and Behavior, 2013, 7, 409-435.	1.1	93
44	Transcranial magnetic stimulation and extradural electrodes implanted on secondary auditory cortex for tinnitus suppression. Journal of Neurosurgery, 2011, 114, 903-911.	0.9	92
45	Characterizing the microstructural basis of â€œunidentified bright objectsâ€•in neurofibromatosis type 1: A combined in vivo multicomponent T2 relaxation and multi-shell diffusion MRI analysis. NeuroImage: Clinical, 2014, 4, 649-658.	1.4	92
46	Lower Limb Sensorimotor Network: Issues of Somatotopy and Overlap. Cortex, 2007, 43, 219-232.	1.1	89
47	Voxel-based lesion-symptom mapping of stroke lesions underlying somatosensory deficits. NeuroImage: Clinical, 2016, 10, 257-266.	1.4	88
48	Brain Tissueâ€“Volume Changes in Cosmonauts. New England Journal of Medicine, 2018, 379, 1678-1680.	13.9	88
49	Brainâ€behavior relationships in young traumatic brain injury patients: DTI metrics are highly correlated with postural control. Human Brain Mapping, 2010, 31, 992-1002.	1.9	87
50	Relationship Between Hippocampal Volume, Serum BDNF, and Depression Severity Following Electroconvulsive Therapy in Late-Life Depression. Neuropsychopharmacology, 2016, 41, 2741-2748.	2.8	87
51	Removal of BCG artifacts from EEG recordings inside the MR scanner: A comparison of methodological and validation-related aspects. NeuroImage, 2010, 50, 920-934.	2.1	85
52	Grey matter volume increase following electroconvulsive therapy in patients with late life depression: a longitudinal MRI study. Journal of Psychiatry and Neuroscience, 2016, 41, 105-114.	1.4	84
53	Construction of a stereotaxic DTI atlas with full diffusion tensor information for studying white matter maturation from childhood to adolescence using tractographyâ€based segmentations. Human Brain Mapping, 2010, 31, 470-486.	1.9	81
54	FMRI Studies of the Supplementary Motor Area and the Premotor Cortex. NeuroImage, 1997, 6, 181-190.	2.1	70

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55	Is There a Common Neuroanatomical Substrate of Language Deficit between Autism Spectrum Disorder and Specific Language Impairment?. Cerebral Cortex, 2012, 22, 2263-2271.	1.6	69
56	Gesture Discrimination in Primary Progressive Aphasia: The Intersection between Gesture and Language Processing Pathways. Journal of Neuroscience, 2010, 30, 6334-6341.	1.7	68
57	Longitudinal Assessment of Chemotherapy-Induced Alterations in Brain Activation During Multitasking and Its Relation With Cognitive Complaints. Journal of Clinical Oncology, 2014, 32, 2031-2038.	0.8	66
58	Resting-State Functional Magnetic Resonance Imaging for Language Preoperative Planning. Frontiers in Human Neuroscience, 2016, 10, 11.	1.0	65
59	Ictal Perfusion Patterns Associated with Single MRI-Visible Focal Dysplastic Lesions: Implications for the Noninvasive Delineation of the Epileptogenic Zone. Epilepsia, 2006, 47, 1550-1557.	2.6	64
60	The use of super-resolution techniques to reduce slice thickness in functional MRI. International Journal of Imaging Systems and Technology, 2004, 14, 131-138.	2.7	62
61	Subcortical volume analysis in traumatic brain injury: The importance of the fronto-striato-thalamic circuit in task switching. Cortex, 2014, 51, 67-81.	1.1	62
62	Mental rotation versus invariant features in object perception from different viewpoints: an fMRI study. Neuropsychologia, 2002, 40, 917-930.	0.7	61
63	Color Discrimination Involves Ventral and Dorsal Stream Visual Areas. Cerebral Cortex, 2004, 14, 803-822.	1.6	61
64	No Association of Lower Hippocampal Volume With Alzheimerâ€™s Disease Pathology in Late-Life Depression. American Journal of Psychiatry, 2017, 174, 237-245.	4.0	59
65	The neural correlates of the unified percept of alcohol-related craving: a fMRI and EEG study. Scientific Reports, 2018, 8, 923.	1.6	59
66	Bimanual Coordination and Corpus Callosum Microstructure in Young Adults with Traumatic Brain Injury: A Diffusion Tensor Imaging Study. Journal of Neurotrauma, 2011, 28, 897-913.	1.7	58
67	Orientation discrimination of objects and gratings compared: an fMRI study. European Journal of Neuroscience, 2001, 13, 585-596.	1.2	57
68	The effect of template selection on diffusion tensor voxel-based analysis results. NeuroImage, 2011, 55, 566-573.	2.1	57
69	Shared heritability of human face and brain shape. Nature Genetics, 2021, 53, 830-839.	9.4	57
70	Macro- and microstructural changes in cosmonautsâ€™ brains after long-duration spaceflight. Science Advances, 2020, 6, .	4.7	56
71	In vivo synaptic density loss is related to tau deposition in amnestic mild cognitive impairment. Neurology, 2020, 95, e545-e553.	1.5	56
72	Passive somatosensory discrimination tasks in healthy volunteers: Differential networks involved in familiar versus unfamiliar shape and length discrimination. NeuroImage, 2005, 26, 441-453.	2.1	55

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73	Correlations Between White Matter Integrity and Motor Function in Traumatic Brain Injury Patients. Neurorehabilitation and Neural Repair, 2011, 25, 492-502.	1.4	55
74	Structural and functional underconnectivity as a negative predictor for language in autism. Human Brain Mapping, 2014, 35, 3602-3615.	1.9	55
75	Altered functional brain connectivity in patients with visually induced dizziness. NeuroImage: Clinical, 2017, 14, 538-545.	1.4	55
76	[11C]JNJ54173717, a novel P2X7 receptor radioligand as marker for neuroinflammation: human biodistribution, dosimetry, brain kinetic modelling and quantification of brain P2X7 receptors in patients with Parkinsonâ€™s disease and healthy volunteers. European Journal of Nuclear Medicine and Molecular Imaging, 2019, 46, 2051-2064.	3.3	55
77	Spatial interference during bimanual coordination: Differential brain networks associated with control of movement amplitude and direction. Human Brain Mapping, 2005, 26, 286-300.	1.9	54
78	Does the use of hormonal contraceptives cause microstructural changes in cerebral white matter? Preliminary results of a DTI and tractography study. European Radiology, 2013, 23, 57-64.	2.3	54
79	Gustatory Stimulation Changes the Apparent Diffusion Coefficient of Salivary Glands: Initial Experience. Radiology, 2005, 235, 629-634.	3.6	52
80	Recovery from chemotherapy-induced white matter changes in young breast cancer survivors?. Brain Imaging and Behavior, 2018, 12, 64-77.	1.1	52
81	White matter differences in euthymic bipolar I disorder: a combined magnetic resonance imaging and diffusion tensor imaging voxelâ€based study. Bipolar Disorders, 2013, 15, 365-376.	1.1	50
82	Training-induced improvements in postural control are accompanied by alterations in cerebellar white matter in brain injured patients. NeuroImage: Clinical, 2015, 7, 240-251.	1.4	50
83	The Representation of Shape in the Context of Visual Object Categorization Tasks. NeuroImage, 2000, 12, 28-40.	2.1	48
84	Visual presentation of phobic stimuli: Amygdala activation via an extrageniculostriate pathway?. Psychiatry Research - Neuroimaging, 2007, 155, 113-120.	0.9	48
85	Impaired recognition of body expressions in the behavioral variant of frontotemporal dementia. Neuropsychologia, 2015, 75, 496-504.	0.7	47
86	Ageâ€related differences in GABA levels are driven by bulk tissue changes. Human Brain Mapping, 2018, 39, 3652-3662.	1.9	47
87	Distributed task coding throughout the multiple demand network of the human frontalâ€“insular cortex. NeuroImage, 2010, 52, 252-262.	2.1	46
88	Simultaneous segmentation and anatomical labeling of the cerebral vasculature. Medical Image Analysis, 2016, 32, 201-215.	7.0	46
89	Mapping multiple visual areas in the human brain with a short fMRI sequence. NeuroImage, 2006, 29, 74-89.	2.1	44
90	Spaceflight-induced neuroplasticity in humans as measured by MRI: what do we know so far?. Npj Microgravity, 2017, 3, 2.	1.9	43

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91	The â€œwhyâ€•and â€œhowâ€•of JointICA: Results from a visual detection task. NeuroImage, 2012, 60, 1171-1185.	2.1	42
92	The functional neuroanatomy of multitasking: Combining dual tasking with a short term memory task. Neuropsychologia, 2013, 51, 2251-2260.	0.7	42
93	Dorsolateral Prefrontal Cortex Transcranial Magnetic Stimulation and Electrode Implant for Intractable Tinnitus. World Neurosurgery, 2012, 77, 778-784.	0.7	40
94	The associative-semantic network for words and pictures: Effective connectivity and graph analysis. Brain and Language, 2013, 127, 264-272.	0.8	40
95	A crucial role for the cortico-striato-cortical loop in the pathogenesis of stroke-related neurogenic stuttering. Human Brain Mapping, 2013, 34, 2103-2112.	1.9	39
96	Subcortical Volume Loss in the Thalamus, Putamen, and Pallidum, Induced by Traumatic Brain Injury, Is Associated With Motor Performance Deficits. Neurorehabilitation and Neural Repair, 2016, 30, 603-614.	1.4	39
97	Activation of Cortical and Subcortical Auditory Structures at 3 T by Means of a Functional Magnetic Resonance Imaging Paradigm Suitable for Clinical Use. Investigative Radiology, 2006, 41, 87-96.	3.5	37
98	Central Effects of Occipital Nerve Electrical Stimulation Studied by Functional Magnetic Resonance Imaging. Neuromodulation, 2011, 14, 46-57.	0.4	37
99	Track Orientation Density Imaging (TODI) and Track Orientation Distribution (TOD) based tractography. NeuroImage, 2014, 94, 312-336.	2.1	37
100	Toward new sensitive measures to evaluate gait stability in focal cerebellar lesion patients. Gait and Posture, 2015, 41, 592-596.	0.6	35
101	Amygdala atrophy affects emotion-related activity in face-responsive regions in frontotemporal degeneration. Cortex, 2016, 82, 179-191.	1.1	34
102	Virtual brain grafting: Enabling whole brain parcellation in the presence of large lesions. NeuroImage, 2021, 229, 117731.	2.1	33
103	Correspondence between largeâ€scale ictal and interictal epileptic networks revealed by single photon emission computed tomography (SPECT) and electroencephalography (EEG)â€“functional magnetic resonance imaging (fMRI). Epilepsia, 2015, 56, 382-392.	2.6	32
104	Effects of a mindfulnessâ€based intervention on cancerâ€related cognitive impairment: Results of a randomized controlled functional magnetic resonance imaging pilot study. Cancer, 2020, 126, 4246-4255.	2.0	32
105	Microstructural Integrity of the Superior Cerebellar Peduncle Is Associated with an Impaired Proprioceptive Weighting Capacity in Individuals with Non-Specific Low Back Pain. PLoS ONE, 2014, 9, e100666.	1.1	32
106	BOLD contrast fMRI of whole rodent tumour during air or carbogen breathing using echo-planar imaging at 1.5 T. European Radiology, 2001, 11, 2332-2340.	2.3	31
107	The dynamics of contour integration: A simultaneous EEGâ€“fMRI study. NeuroImage, 2014, 88, 10-21.	2.1	31
108	Regional volumes in brain stem and cerebellum are associated with postural impairments in young brainâ€injured patients. Human Brain Mapping, 2015, 36, 4897-4909.	1.9	31

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109	Functional Organization of the Action Observation Network in Autism: A Graph Theory Approach. PLoS ONE, 2015, 10, e0137020.	1.1	31
110	Functional brain changes underlying irritability in premanifest <scp>H</scp>untington's disease. Human Brain Mapping, 2015, 36, 2681-2690.	1.9	30
111	Stroke caused by cerebral air embolism during endoscopy. Gastrointestinal Endoscopy, 2003, 57, 134-135.	0.5	29
112	The use of ECG and respiratory triggering to improve the sensitivity of oxygen-enhanced proton MRI of lung ventilation. European Radiology, 2003, 13, 1260-1265.	2.3	29
113	Functional Changes in the Language Network in Response to Increased Amyloid Î² Deposition in Cognitively Intact Older Adults. Cerebral Cortex, 2016, 26, 358-373.	1.6	29
114	Adaptation and aftereffects of split-belt walking in cerebellar lesion patients. Journal of Neurophysiology, 2015, 114, 1693-1704.	0.9	27
115	3D Shape Perception in Posterior Cortical Atrophy: A Visual Neuroscience Perspective. Journal of Neuroscience, 2015, 35, 12673-12692.	1.7	27
116	Corpus callosum macro and microstructure in late-life depression. Journal of Affective Disorders, 2017, 222, 63-70.	2.0	27
117	Neuroinflammation and Its Association with Cognition, Neuronal Markers and Peripheral Inflammation after Chemotherapy for Breast Cancer. Cancers, 2021, 13, 4198.	1.7	27
118	Frontoparietal involvement in passively guided shape and length discrimination: a comparison between subcortical stroke patients and healthy controls. Experimental Brain Research, 2012, 220, 179-189.	0.7	26
119	Single trial <scp>ERP</scp> reading based on parallel factor analysis. Psychophysiology, 2013, 50, 97-110.	1.2	26
120	The effect of prolonged spaceflight on cerebrospinal fluid and perivascular spaces of astronauts and cosmonauts. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, e2120439119.	3.3	26
121	Anatomy of Subcortical Structures Predicts Age-Related Differences in Skill Acquisition. Cerebral Cortex, 2018, 28, 459-473.	1.6	25
122	Ageâ€dependent brain volume and neuropsychological changes after chemotherapy in breast cancer patients. Human Brain Mapping, 2019, 40, 4994-5010.	1.9	25
123	Direct prospective comparison of 18F-FDG PET and arterial spin labelling MR using simultaneous PET/MR in patients referred for diagnosis of dementia. European Journal of Nuclear Medicine and Molecular Imaging, 2020, 47, 2142-2154.	3.3	25
124	What Has Neuroimaging Taught Us on the Neurobiology of Yoga? A Review. Frontiers in Integrative Neuroscience, 2020, 14, 34.	1.0	24
125	Baseline cognition is the best predictor of 4-year cognitive change in cognitively intact older adults. Alzheimer's Research and Therapy, 2021, 13, 75.	3.0	24
126	Involvement of multiple functionally distinct cerebellar regions in visual discrimination: a human functional imaging study. NeuroImage, 2003, 20, 840-854.	2.1	23

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127	Hippocampal malrotation in pediatric patients with epilepsy associated with complex prefrontal dysfunction. Epilepsia, 2010, 51, 546-555.	2.6	23
128	Advanced MR diffusion imaging and chemotherapyâ€related changes in cerebral white matter microstructure of survivors of childhood bone and soft tissue sarcoma?. Human Brain Mapping, 2018, 39, 3375-3387.	1.9	23
129	An atlas of white matter anatomy, its variability, and reproducibility based on constrained spherical deconvolution of diffusion MRI. NeuroImage, 2022, 254, 119029.	2.1	23
130	Nucleus accumbens and caudate atrophy predicts longer action selection times in young and old adults. Human Brain Mapping, 2016, 37, 4629-4639.	1.9	22
131	Classifying Glioblastoma Multiforme Follow-Up Progressive vs. Responsive Forms Using Multi-Parametric MRI Features. Frontiers in Neuroscience, 2016, 10, 615.	1.4	22
132	Challenge to Promote Change: The Neural Basis of the Contextual Interference Effect in Young and Older Adults. Journal of Neuroscience, 2018, 38, 3333-3345.	1.7	22
133	Combining constraint-induced movement therapy and action-observation training in children with unilateral cerebral palsy: a randomized controlled trial. BMC Pediatrics, 2018, 18, 250.	0.7	22
134	Sensorimotor cortex neurometabolite levels as correlate of motor performance in normal aging: evidence from a 1H-MRS study. NeuroImage, 2019, 202, 116050.	2.1	22
135	Spinal cord stimulation modulates cerebral neurobiology: a proton magnetic resonance spectroscopy study. Neuroradiology, 2013, 55, 1039-1047.	1.1	21
136	The mis-wired language network in children with developmental language disorder: insights from DTI tractography. Brain Imaging and Behavior, 2019, 13, 973-984.	1.1	21
137	Multivariate analysis reveals anatomical correlates of naming errors in primary progressive aphasia. Neurobiology of Aging, 2020, 88, 71-82.	1.5	21
138	Baseline sensorimotor GABA levels shape neuroplastic processes induced by motor learning in older adults. Human Brain Mapping, 2020, 41, 3680-3695.	1.9	21
139	In vivo synaptic density relates to glucose metabolism at rest in healthy subjects, but is strongly modulated by regional differences. Journal of Cerebral Blood Flow and Metabolism, 2021, 41, 0271678X2098150.	2.4	21
140	Is There Full or Proportional Somatosensory Recovery in the Upper Limb After Stroke? Investigating Behavioral Outcome and Neural Correlates. Neurorehabilitation and Neural Repair, 2018, 32, 691-700.	1.4	20
141	A 3 T event-related functional magnetic resonance imaging (fMRI) study of primary and secondary gustatory cortex localization using natural tastants. Neuroradiology, 2007, 49, 61-71.	1.1	19
142	Does somatosensory discrimination activate different brain areas in children with unilateral cerebral palsy compared to typically developing children? An fMRI study. Research in Developmental Disabilities, 2013, 34, 1710-1720.	1.2	18
143	Movement preparation and execution: differential functional activation patterns after traumatic brain injury. Brain, 2016, 139, 2469-2485.	3.7	18
144	Intrinsic functional connectivity reduces after first-time exposure to short-term gravitational alterations induced by parabolic flight. Scientific Reports, 2017, 7, 3061.	1.6	18

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145	Convexity-constrained and nonnegativity-constrained spherical factorization in diffusion-weighted imaging. NeuroImage, 2017, 146, 507-517.	2.1	18
146	Cerebellar gray matter explains bimanual coordination performance in children and older adults. Neurobiology of Aging, 2018, 65, 109-120.	1.5	18
147	Functional network connectivity is altered in patients with upper limb somatosensory impairments in the acute phase post stroke: A cross-sectional study. PLoS ONE, 2018, 13, e0205693.	1.1	18
148	Testâ€“Retest Reliability and Concurrent Validity of anÂfMRI-Compatible Pneumatic Vibrator to StimulateÂMuscle Proprioceptors. Multisensory Research, 2016, 29, 465-492.	0.6	17
149	Macrostructural and Microstructural Brain Lesions Relate to Gait Pathology in Children With Cerebral Palsy. Neurorehabilitation and Neural Repair, 2016, 30, 817-833.	1.4	17
150	Regional Gray Matter Volume Loss Is Associated with Gait Impairments in Young Brain-Injured Individuals. Journal of Neurotrauma, 2017, 34, 1022-1034.	1.7	17
151	Brain Connectometry Changes in Space Travelers After Long-Duration Spaceflight. Frontiers in Neural Circuits, 2022, 16, 815838.	1.4	17
152	Sensitivity and Specificity of Interictal EEG-fMRI for Detecting the Ictal Onset Zone at Different Statistical Thresholds. Frontiers in Neurology, 2014, 5, 131.	1.1	16
153	Functional magnetic resonance imaging: cerebral function alterations in subthreshold and suprathreshold spinal cord stimulation. Journal of Pain Research, 2018, Volume 11, 2517-2526.	0.8	16
154	Functional connectivity analysis of fMRI data collected from human subjects with chronic tinnitus and varying levels of tinnitus-related distress. Data in Brief, 2018, 21, 779-789.	0.5	16
155	White matter characteristics of motor, sensory and interhemispheric tracts underlying impaired upper limb function in children with unilateral cerebral palsy. Brain Structure and Function, 2020, 225, 1495-1509.	1.2	15
156	Cross-Modal Distillation to Improve MRI-Based Brain Tumor Segmentation With Missing MRI Sequences. IEEE Transactions on Biomedical Engineering, 2022, 69, 2153-2164.	2.5	15
157	In vivo animal functional MRI: Improved image quality with a body-adapted mold. Journal of Magnetic Resonance Imaging, 2002, 16, 224-227.	1.9	14
158	Longâ€term leukoencephalopathy and neurocognitive functioning in childhood sarcoma patients treated with highâ€dose intravenous chemotherapy. Pediatric Blood and Cancer, 2019, 66, e27893.	0.8	14
159	Biophysical mechanisms of electroconvulsive therapy-induced volume expansion in the medial temporal lobe: A longitudinal inÂvivo human imaging study. Brain Stimulation, 2021, 14, 1038-1047.	0.7	14
160	Functional brain changes in auditory phantom perception evoked by different stimulus frequencies. Neuroscience Letters, 2018, 683, 160-167.	1.0	13
161	Electroconvulsive therapy response in late-life depression unaffected by age-related brain changes. Journal of Affective Disorders, 2019, 251, 114-120.	2.0	13
162	Lower regional gray matter volume in the absence of higher cortical amyloid burden in late-life depression. Scientific Reports, 2021, 11, 15981.	1.6	13

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163	A diffusion tensor imaging family study of the fornix in schizophrenia. Schizophrenia Research, 2014, 159, 435-440.	1.1	12
164	Alterations in brain white matter contributing to ageâ€related slowing of task switching performance: The role of radial diffusivity and magnetization transfer ratio. Human Brain Mapping, 2016, 37, 4084-4098.	1.9	12
165	The temporoinsular projection system: an anatomical study. Journal of Neurosurgery, 2020, 132, 615-623.	0.9	12
166	A mindfulness-based intervention for breast cancer patients with cognitive impairment after chemotherapy: study protocol of a three-group randomized controlled trial. Trials, 2020, 21, 290.	0.7	12
167	Changes in synaptic density in the subacute phase after ischemic stroke: A 11C-UCB-J PET/MR study. Journal of Cerebral Blood Flow and Metabolism, 2021, , 0271678X2110477.	2.4	12
168	Atypical Neuropsychological Profile in a Boy with 22q11.2 Deletion Syndrome Keywords:. Child Neuropsychology, 2005, 11, 87-108.	0.8	11
169	Face shape and face identity processing in behavioral variant fronto-temporal dementia: A specific deficit for familiarity and name recognition of famous faces. NeuroImage: Clinical, 2016, 11, 368-377.	1.4	11
170	Premotor dorsal white matter integrity for the prediction of upper limb motor impairment after stroke. Scientific Reports, 2019, 9, 19712.	1.6	11
171	Blood and neuroimaging biomarkers of cognitive sequelae in breast cancer patients throughout chemotherapy: A systematic review. Translational Oncology, 2022, 16, 101297.	1.7	11
172	Reproducibility and Robustness of Graph Measures of the Associative-Semantic Network. PLoS ONE, 2014, 9, e115215.	1.1	10
173	Proactive Response Inhibition and Subcortical Gray Matter Integrity in Traumatic Brain Injury. Neurorehabilitation and Neural Repair, 2017, 31, 228-239.	1.4	10
174	Regional glucose metabolic decreases with ageing are associated with microstructural white matter changes: a simultaneous PET/MR study. European Journal of Nuclear Medicine and Molecular Imaging, 2022, 49, 664-680.	3.3	10
175	The Impact of Mindfulness-Based Interventions on Brain Functional Connectivity: a Systematic Review. Mindfulness, 2022, 13, 1857-1875.	1.6	10
176	Noun and knowledge retrieval for biological and non-biological entities following right occipitotemporal lesions. Neuropsychologia, 2014, 62, 163-174.	0.7	9
177	Age- and Intravenous Methotrexate-Associated Leukoencephalopathy and Its Neurological Impact in Pediatric Patients with Lymphoblastic Leukemia. Cancers, 2021, 13, 1939.	1.7	8
178	Tracking posttraumatic hemianopia. Journal of Neurology, 2018, 265, 41-45.	1.8	7
179	Prevalence of leukoencephalopathy and its potential cognitive sequelae in cancer patients. Journal of Chemotherapy, 2020, 32, 327-343.	0.7	7
180	Structural correlates of the audiological and emotional components of chronic tinnitus. Progress in Brain Research, 2021, 262, 487-509.	0.9	7

#	Article	IF	Citations
181	The Leuven late life depression (L3D) study: PET-MRI biomarkers of pathological brain ageing in late-life depression: study protocol. BMC Psychiatry, 2021, 21, 64.	1.1	7
182	Long-term Ashtanga yoga practice decreases medial temporal and brainstem glucose metabolism in relation to years of experience. EJNMMI Research, 2020, 10, 50.	1.1	7
183	Tumour Relapse Prediction Using Multiparametric MR Data Recorded during Follow-Up of GBM Patients. BioMed Research International, 2015, 2015, 1-13.	0.9	6
184	Effects of prenatal exposure to cancer treatment on neurocognitive development, a review. NeuroToxicology, 2016, 54, 11-21.	1.4	6
185	The role of the PMd in task complexity: functional connectivity is modulated by motor learning and age. Neurobiology of Aging, 2020, 92, 12-27.	1.5	6
186	An optimized MRI and PET based clinical protocol for improving the differential diagnosis of geriatric depression and Alzheimer's disease. Psychiatry Research - Neuroimaging, 2022, 320, 111443.	0.9	6
187	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.	1.3	6
188	Anatomical Labeling of the Circle of Willis Using Maximum A Posteriori Graph Matching. Lecture Notes in Computer Science, 2013, 16, 566-573.	1.0	5
189	Brain activation after nasal histamine provocation in house dust mite allergic rhinitis patients. Allergy: European Journal of Allergy and Clinical Immunology, 2021, 76, 1879-1882.	2.7	5
190	Cortical thinning and altered functional brain coherence in survivors of childhood sarcoma. Brain Imaging and Behavior, 2021, 15, 677-688.	1.1	5
191	Quantitative MRI phenotypes capture biological heterogeneity in multiple sclerosis patients. Scientific Reports, 2021, 11, 1573.	1.6	5
192	Brain network hubs and cognitive performance of survivors of childhood infratentorial tumors. Radiotherapy and Oncology, 2021, 161, 118-125.	0.3	5
193	Clinical BOLD fMRI: Artifacts, Tips and Tricks. , 2007, , 227-249.		5
194	Neuroinflammation as potential precursor of leukoencephalopathy in early-stage breast cancer patients: A cross-sectional PET-MRI study. Breast, 2022, 62, 61-68.	0.9	5
195	Brain and Behavior Changes following Exposure Therapy Predict Outcome at 8-Year Follow-Up. Psychotherapy and Psychosomatics, 2016, 85, 238-240.	4.0	4
196	Patient MW: transient visual hemi-agnosia. Journal of Neurology, 2019, 266, 691-698.	1.8	4
197	Ventral stream hierarchy underlying perceptual organization in adolescents with autism. NeuroImage: Clinical, 2020, 25, 102197.	1.4	4
198	Dual Tensor Atlas Generation Based on a Cohort of Coregistered non-HARDI Datasets. Lecture Notes in Computer Science, 2009, 12, 869-876.	1.0	4

#	Article	IF	Citations
199	Hippocampal avoidance prophylactic cranial irradiation (HA-PCI) for small cell lung cancer reduces hippocampal atrophy compared to conventional PCI. Neuro-Oncology, 0, , .	0.6	4
200	Long term fMRI adaptation depends on adapter response in face-selective cortex. Communications Biology, 2021, 4, 712.	2.0	3
201	Twelve-Week Yoga vs. Aerobic Cycling Initiation in Sedentary Healthy Subjects: A Behavioral and Multiparametric Interventional PET/MR Study. Frontiers in Psychiatry, 2021, 12, 739356.	1.3	3
202	Clinical BOLD fMRI and DTI: Artifacts, Tips, and Tricks. Medical Radiology, 2015, , 313-336.	0.0	2
203	A paleo-neurologic investigation of the social brain hypothesis in frontotemporal dementia. Cerebral Cortex, 2023, 33, 622-633.	1.6	2
204	The Effect of Aging on Brain Glucose Metabolic Connectivity Revealed by [18F]FDG PET-MR and Individual Brain Networks. Frontiers in Aging Neuroscience, 2021, 13, 798410.	1.7	2
205	Task-Related Modulation of Sensorimotor GABA+ Levels in Association with Brain Activity and Motor Performance: A Multimodal MRSâ€“fMRI Study in Young and Older Adults. Journal of Neuroscience, 2022, 42, 1119-1130.	1.7	2
206	Left Frontal White Matter Links to Rhythm Processing Relevant to Speech Production in Apraxia of Speech. Neurobiology of Language (Cambridge, Mass), 2022, 3, 515-537.	1.7	2
207	DTI in Diagnosis and Follow-Up of Brain Tumors. , 2016, , 309-330.		1
208	DTI in Clinical Practice: Opportunities and Considerations. , 2016, , 275-290.		1
209	White matter brain lesions in infantile-onset Pompe disease are not metabolically active using 18F-FDG PET/MR imaging. Neuromuscular Disorders, 2020, 30, 732-733.	0.3	0
210	The Clinical Applicability of fMRI and DTI in Patients with Brain Tumors. , 2011, , 49-71.		0
211	Clinical BOLD fMRI and DTI: Artifacts, Tips, and Tricks. Medical Radiology, 2022, , 407-439.	0.0	0
212	The impact of COVID-19-related smell and taste disorders on a patient with bulimia nervosa: a case report. Neurocase, 2022, , 1-5.	0.2	0
213	Longitudinal changes in the brain language system as amyloid accumulates. Alzheimer's and Dementia, 2021, 17, .	0.4	0