

Arno Villringer

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

538
papers

28,505
citations

82
h-index

150
g-index

601
ext. papers

33,755
ext. citations

5.2
avg, IF

6.95
L-index

#	Paper	IF	Citations
538	Toward discovery science of human brain function. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 4734-9	11.5	2183
537	Precuneus shares intrinsic functional architecture in humans and monkeys. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 20069-74	11.5	714
536	Dynamic imaging with lanthanide chelates in normal brain: contrast due to magnetic susceptibility effects. <i>Magnetic Resonance in Medicine</i> , 1988 , 6, 164-74	4.4	612
535	Beyond the visible--imaging the human brain with light. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2003 , 23, 1-18	7.3	575
534	Correlates of alpha rhythm in functional magnetic resonance imaging and near infrared spectroscopy. <i>NeuroImage</i> , 2003 , 20, 145-58	7.9	482
533	Spontaneous low frequency oscillations of cerebral hemodynamics and metabolism in human adults. <i>NeuroImage</i> , 2000 , 12, 623-39	7.9	479
532	Dysfunction of ventral striatal reward prediction in schizophrenia. <i>NeuroImage</i> , 2006 , 29, 409-16	7.9	468
531	Enhanced performance by a hybrid NIRS-EEG brain computer interface. <i>NeuroImage</i> , 2012 , 59, 519-29	7.9	445
530	Early setting of grammatical processing in the bilingual brain. <i>Neuron</i> , 2003 , 37, 159-70	13.9	370
529	Simultaneous recording of cerebral blood oxygenation changes during human brain activation by magnetic resonance imaging and near-infrared spectroscopy. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 1996 , 16, 817-26	7.3	365
528	Dynamic properties of human brain structure: learning-related changes in cortical areas and associated fiber connections. <i>Journal of Neuroscience</i> , 2010 , 30, 11670-7	6.6	355
527	Stroke magnetic resonance imaging is accurate in hyperacute intracerebral hemorrhage: a multicenter study on the validity of stroke imaging. <i>Stroke</i> , 2004 , 35, 502-6	6.7	334
526	Eigenvector centrality mapping for analyzing connectivity patterns in fMRI data of the human brain. <i>PLoS ONE</i> , 2010 , 5, e10232	3.7	325
525	Decrease in parietal cerebral hemoglobin oxygenation during performance of a verbal fluency task in patients with Alzheimer's disease monitored by means of near-infrared spectroscopy (NIRS)--correlation with simultaneous rCBF-PET measurements. <i>Brain Research</i> , 1997 , 755, 293-303	3.7	310
524	Rolandic alpha and beta EEG rhythms' strengths are inversely related to fMRI-BOLD signal in primary somatosensory and motor cortex. <i>Human Brain Mapping</i> , 2009 , 30, 1168-87	5.9	294
523	Constraint-induced movement therapy for motor recovery in chronic stroke patients. <i>Archives of Physical Medicine and Rehabilitation</i> , 1999 , 80, 624-8	2.8	274
522	Sex hormones affect neurotransmitters and shape the adult female brain during hormonal transition periods. <i>Frontiers in Neuroscience</i> , 2015 , 9, 37	5.1	272

521	Human vestibular cortex as identified with caloric stimulation in functional magnetic resonance imaging. <i>NeuroImage</i> , 2002 , 17, 1384-93	7.9	272
520	Dysfunction of ventral striatal reward prediction in schizophrenic patients treated with typical, not atypical, neuroleptics. <i>Psychopharmacology</i> , 2006 , 187, 222-8	4.7	262
519	Transient ischemic attacks before ischemic stroke: preconditioning the human brain? A multicenter magnetic resonance imaging study. <i>Stroke</i> , 2004 , 35, 616-21	6.7	255
518	Study of 300,486 individuals identifies 148 independent genetic loci influencing general cognitive function. <i>Nature Communications</i> , 2018 , 9, 2098	17.4	254
517	Beyond the Visible???Imaging the Human Brain With Light. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2003 , 1-18	7.3	252
516	An open science resource for establishing reliability and reproducibility in functional connectomics. <i>Scientific Data</i> , 2014 , 1, 140049	8.2	247
515	Mapping the depressed brain: a meta-analysis of structural and functional alterations in major depressive disorder. <i>Journal of Affective Disorders</i> , 2012 , 140, 142-8	6.6	236
514	Illuminating the BOLD signal: combined fMRI-fNIRS studies. <i>Magnetic Resonance Imaging</i> , 2006 , 24, 495-505	5.5	236
513	Nitric oxide scavenging by hemoglobin or nitric oxide synthase inhibition by N-nitro-L-arginine induces cortical spreading ischemia when K ⁺ is increased in the subarachnoid space. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 1998 , 18, 978-90	7.3	234
512	Human aging magnifies genetic effects on executive functioning and working memory. <i>Frontiers in Human Neuroscience</i> , 2008 , 2, 1	3.3	229
511	Predicting brain-age from multimodal imaging data captures cognitive impairment. <i>NeuroImage</i> , 2017 , 148, 179-188	7.9	221
510	Long-term effects of motor training on resting-state networks and underlying brain structure. <i>NeuroImage</i> , 2011 , 57, 1492-8	7.9	202
509	Role of nitric oxide in the coupling of cerebral blood flow to neuronal activation in rats. <i>Neuroscience Letters</i> , 1993 , 149, 43-6	3.3	202
508	Near-infrared spectroscopy: does it function in functional activation studies of the adult brain?. <i>International Journal of Psychophysiology</i> , 2000 , 35, 125-42	2.9	201
507	Simultaneous EEG-fMRI. <i>Neuroscience and Biobehavioral Reviews</i> , 2006 , 30, 823-38	9	195
506	Noninvasive functional imaging of human brain using light. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2000 , 20, 469-77	7.3	194
505	An fMRI study of simple ethical decision-making. <i>NeuroReport</i> , 2003 , 14, 1215-9	1.7	190
504	Time-resolved multidistance near-infrared spectroscopy of the adult head: intracerebral and extracerebral absorption changes from moments of distribution of times of flight of photons. <i>Applied Optics</i> , 2004 , 43, 3037-47	1.7	187

503	Towards a standard analysis for functional near-infrared imaging. <i>NeuroImage</i> , 2004 , 21, 283-90	7.9	177
502	Resting developments: a review of fMRI post-processing methodologies for spontaneous brain activity. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2010 , 23, 289-307	2.8	174
501	A physiological correlate of the "Zoom Lens" of visual attention. <i>Journal of Neuroscience</i> , 2003 , 23, 3561-66	4.6	167
500	The LIFE-Adult-Study: objectives and design of a population-based cohort study with 10,000 deeply phenotyped adults in Germany. <i>BMC Public Health</i> , 2015 , 15, 691	4.1	164
499	Prediction of malignant middle cerebral artery infarction by magnetic resonance imaging within 6 hours of symptom onset: A prospective multicenter observational study. <i>Annals of Neurology</i> , 2010 , 68, 435-45	9.4	160
498	Changes in cerebral perfusion precede plaque formation in multiple sclerosis: a longitudinal perfusion MRI study. <i>Brain</i> , 2004 , 127, 111-9	11.2	157
497	Sexual dimorphism in the human brain: evidence from neuroimaging. <i>Magnetic Resonance Imaging</i> , 2013 , 31, 366-75	3.3	155
496	Cellular immunodepression preceding infectious complications after acute ischemic stroke in humans. <i>Cerebrovascular Diseases</i> , 2008 , 25, 50-8	3.2	154
495	Age dependency of changes in cerebral hemoglobin oxygenation during brain activation: a near-infrared spectroscopy study. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 1995 , 15, 1103-8	7.3	138
494	Physical model for the spectroscopic analysis of cortical intrinsic optical signals. <i>Physics in Medicine and Biology</i> , 2000 , 45, 3749-64	3.8	137
493	Global cerebral ischemia in the rat: online monitoring of oxygen free radical production using chemiluminescence in vivo. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 1995 , 15, 929-40	7.3	135
492	No evidence for early decrease in blood oxygenation in rat whisker cortex in response to functional activation. <i>NeuroImage</i> , 2001 , 13, 988-1001	7.9	133
491	Visual feature and conjunction searches of equal difficulty engage only partially overlapping frontoparietal networks. <i>NeuroImage</i> , 2002 , 15, 16-25	7.9	131
490	A Systematic Relationship Between Functional Connectivity and Intracortical Myelin in the Human Cerebral Cortex. <i>Cerebral Cortex</i> , 2017 , 27, 981-997	5.1	120
489	fMRI shows multiple somatotopic digit representations in human primary somatosensory cortex. <i>NeuroReport</i> , 2000 , 11, 1487-1491	1.7	118
488	Influence of bodily harm on neural correlates of semantic and moral decision-making. <i>NeuroImage</i> , 2005 , 24, 887-97	7.9	114
487	Out-of-hospital delays in patients with acute stroke. <i>Annals of Emergency Medicine</i> , 2004 , 44, 476-83	2.1	113
486	fMRI assessment of somatotopy in human Brodmann area 3b by electrical finger stimulation. <i>NeuroReport</i> , 1998 , 9, 207-12	1.7	113

485	Now you feel it--now you don't: ERP correlates of somatosensory awareness. <i>Psychophysiology</i> , 2006 , 43, 31-40	4.1	111
484	Obesity-Related Differences between Women and Men in Brain Structure and Goal-Directed Behavior. <i>Frontiers in Human Neuroscience</i> , 2011 , 5, 58	3.3	110
483	Habituation of the visually evoked potential and its vascular response: implications for neurovascular coupling in the healthy adult. <i>NeuroImage</i> , 2002 , 17, 1-18	7.9	110
482	How ongoing neuronal oscillations account for evoked fMRI variability. <i>Journal of Neuroscience</i> , 2011 , 31, 11016-27	6.6	109
481	Structural brain plasticity in Parkinson's disease induced by balance training. <i>Neurobiology of Aging</i> , 2014 , 35, 232-9	5.6	107
480	Sex-dependent influences of obesity on cerebral white matter investigated by diffusion-tensor imaging. <i>PLoS ONE</i> , 2011 , 6, e18544	3.7	107
479	Combined evaluation of FDG-PET and MRI improves detection and differentiation of dementia. <i>PLoS ONE</i> , 2011 , 6, e18111	3.7	106
478	Non-invasive functional mapping of the human motor cortex using near-infrared spectroscopy. <i>NeuroReport</i> , 1996 , 7, 1977-81	1.7	104
477	Assessment of Local Brain Activation. <i>Advances in Experimental Medicine and Biology</i> , 1997 , 149-153	3.6	104
476	Spatial attention related SEP amplitude modulations covary with BOLD signal in S1--a simultaneous EEG--fMRI study. <i>Cerebral Cortex</i> , 2008 , 18, 2686-700	5.1	103
475	Involvement of the human frontal eye field and multiple parietal areas in covert visual selection during conjunction search. <i>European Journal of Neuroscience</i> , 2000 , 12, 3407-14	3.5	103
474	Dynamic modulation of intrinsic functional connectivity by transcranial direct current stimulation. <i>Journal of Neurophysiology</i> , 2012 , 108, 3253-63	3.2	102
473	Differential effects of global and cerebellar normalization on detection and differentiation of dementia in FDG-PET studies. <i>NeuroImage</i> , 2010 , 49, 1490-5	7.9	102
472	Safety of Tirofiban in acute Ischemic Stroke: the SaTIS trial. <i>Stroke</i> , 2011 , 42, 2388-92	6.7	101
471	A Comparison between Uni- and Bilateral tDCS Effects on Functional Connectivity of the Human Motor Cortex. <i>Frontiers in Human Neuroscience</i> , 2013 , 7, 183	3.3	99
470	Can impaired working memory functioning be improved by training? A meta-analysis with a special focus on brain injured patients. <i>Neuropsychology</i> , 2016 , 30, 190-212	3.8	93
469	Functional connectivity of visual cortex in the blind follows retinotopic organization principles. <i>Brain</i> , 2015 , 138, 1679-95	11.2	93
468	Individual variation in intentionality in the mind-wandering state is reflected in the integration of the default-mode, fronto-parietal, and limbic networks. <i>NeuroImage</i> , 2017 , 146, 226-235	7.9	92

467	Individual differences in moral judgment competence influence neural correlates of socio-normative judgments. <i>Social Cognitive and Affective Neuroscience</i> , 2008 , 3, 33-46	4	92
466	Evidence for a rostral-to-caudal somatotopic organization in human primary somatosensory cortex with mirror-reversal in areas 3b and 1. <i>Cerebral Cortex</i> , 2003 , 13, 987-93	5.1	92
465	The effects of plant-based diets on the body and the brain: a systematic review. <i>Translational Psychiatry</i> , 2019 , 9, 226	8.6	91
464	The impact of atrial fibrillation on the cost of stroke: the berlin acute stroke study. <i>Value in Health</i> , 2007 , 10, 137-43	3.3	91
463	The beta-lactam antibiotic, ceftriaxone, dramatically improves survival, increases glutamate uptake and induces neurotrophins in stroke. <i>Journal of Hypertension</i> , 2008 , 26, 2426-35	1.9	89
462	Noninvasive assessment of changes in cytochrome-c oxidase oxidation in human subjects during visual stimulation. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 1999 , 19, 592-603	7.3	85
461	Identifying the perfusion deficit in acute stroke with resting-state functional magnetic resonance imaging. <i>Annals of Neurology</i> , 2013 , 73, 136-40	9.4	84
460	Knowledge about risk factors for stroke: a population-based survey with 28,090 participants. <i>Stroke</i> , 2006 , 37, 946-50	6.7	84
459	Response inhibition and its relation to multidimensional impulsivity. <i>NeuroImage</i> , 2014 , 103, 241-248	7.9	83
458	A neural network reflecting individual differences in cognitive processing of emotions during perceptual decision making. <i>NeuroImage</i> , 2006 , 33, 1016-27	7.9	83
457	Linear aspects of changes in deoxygenated hemoglobin concentration and cytochrome oxidase oxidation during brain activation. <i>NeuroImage</i> , 2001 , 13, 520-30	7.9	83
456	Separability and cross talk: optimizing dual wavelength combinations for near-infrared spectroscopy of the adult head. <i>NeuroImage</i> , 2004 , 22, 583-9	7.9	82
455	Cerebellar transcranial direct current stimulation modulates verbal working memory. <i>Brain Stimulation</i> , 2013 , 6, 649-53	5.1	81
454	Genetic architecture of subcortical brain structures in 38,851 individuals. <i>Nature Genetics</i> , 2019 , 51, 1624-1636	5.6	81
453	Slave to habit? Obesity is associated with decreased behavioural sensitivity to reward devaluation. <i>Appetite</i> , 2015 , 87, 175-83	4.5	79
452	Executive deficits are related to the inferior frontal junction in early dementia. <i>Brain</i> , 2012 , 135, 201-15	11.2	79
451	Determination of the wavelength dependence of the differential pathlength factor from near-infrared pulse signals. <i>Physics in Medicine and Biology</i> , 1998 , 43, 1771-82	3.8	79
450	Reference intervals for plasma free metanephrines with an age adjustment for normetanephrine for optimized laboratory testing of pheochromocytoma. <i>Annals of Clinical Biochemistry</i> , 2013 , 50, 62-9	2.2	77

449	Meta-analysis based SVM classification enables accurate detection of Alzheimer's disease across different clinical centers using FDG-PET and MRI. <i>Psychiatry Research - Neuroimaging</i> , 2013 , 212, 230-6	2.9	76
448	Altered function of ventral striatum during reward-based decision making in old age. <i>Frontiers in Human Neuroscience</i> , 2009 , 3, 34	3.3	75
447	Imperceptible stimuli and sensory processing impediment. <i>Science</i> , 2003 , 299, 1864	33.3	73
446	Influence of ongoing alpha rhythm on the visual evoked potential. <i>NeuroImage</i> , 2008 , 39, 707-16	7.9	71
445	Noninvasive monitoring of cerebral blood flow by a dye bolus method: separation of brain from skin and skull signals. <i>Journal of Biomedical Optics</i> , 2002 , 7, 464-70	3.5	71
444	Serotonergic modulation of intrinsic functional connectivity. <i>Current Biology</i> , 2014 , 24, 2314-8	6.3	70
443	Now you'll feel it, now you won't: EEG rhythms predict the effectiveness of perceptual masking. <i>Journal of Cognitive Neuroscience</i> , 2009 , 21, 2407-19	3.1	70
442	Prospective study on the mismatch concept in acute stroke patients within the first 24 h after symptom onset - 1000Plus study. <i>BMC Neurology</i> , 2009 , 9, 60	3.1	70
441	Lesion location matters: The relationships between white matter hyperintensities on cognition in the healthy elderly. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2019 , 39, 36-43	7.3	70
440	Musical agency reduces perceived exertion during strenuous physical performance. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 17784-9	11.5	69
439	Thalamic sensory strokes with and without pain: differences in lesion patterns in the ventral posterior thalamus. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2012 , 83, 776-84	5.5	69
438	Pharmacological uncoupling of activation induced increases in CBF and CMRO ₂ . <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2010 , 30, 311-22	7.3	69
437	Candesartan but not ramipril pretreatment improves outcome after stroke and stimulates neurotrophin BDNF/TrkB system in rats. <i>Journal of Hypertension</i> , 2008 , 26, 544-52	1.9	69
436	The fast optical signal--robust or elusive when non-invasively measured in the human adult?. <i>NeuroImage</i> , 2005 , 26, 996-1008	7.9	69
435	Mild cognitive impairment: incidence and risk factors: results of the leipzig longitudinal study of the aged. <i>Journal of the American Geriatrics Society</i> , 2010 , 58, 1903-10	5.6	68
434	Neural correlates of vibrotactile working memory in the human brain. <i>Journal of Neuroscience</i> , 2006 , 26, 13231-9	6.6	68
433	Temporal profile of T2-weighted MRI distinguishes between pannecrosis and selective neuronal death after transient focal cerebral ischemia in the rat. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2006 , 26, 38-47	7.3	68
432	Visual evoked potentials recovered from fMRI scan periods. <i>Human Brain Mapping</i> , 2005 , 26, 221-30	5.9	68

431	Higher sensitivity to sweet and salty taste in obese compared to lean individuals. <i>Appetite</i> , 2017 , 111, 158-165	4.5	67
430	Advanced MRI techniques to improve our understanding of experience-induced neuroplasticity. <i>NeuroImage</i> , 2016 , 131, 55-72	7.9	67
429	A mind-brain-body dataset of MRI, EEG, cognition, emotion, and peripheral physiology in young and old adults. <i>Scientific Data</i> , 2019 , 6, 180308	8.2	66
428	The interaction of acute and chronic stress impairs model-based behavioral control. <i>Psychoneuroendocrinology</i> , 2015 , 53, 268-80	5	66
427	Learning-related gray and white matter changes in humans: an update. <i>Neuroscientist</i> , 2012 , 18, 320-5	7.6	63
426	Saccadic suppression induces focal hypooxygenation in the occipital cortex. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2000 , 20, 1103-10	7.3	63
425	Amphetamine modulates brain signal variability and working memory in younger and older adults. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 7593-8	11.5	62
424	Body weight status, eating behavior, sensitivity to reward/punishment, and gender: relationships and interdependencies. <i>Frontiers in Psychology</i> , 2014 , 5, 1073	3.4	62
423	Representational overlap of adjacent fingers in multiple areas of human primary somatosensory cortex depends on electrical stimulus intensity: an fMRI study. <i>Brain Research</i> , 2001 , 899, 36-46	3.7	62
422	Functional network centrality in obesity: A resting-state and task fMRI study. <i>Psychiatry Research - Neuroimaging</i> , 2015 , 233, 331-8	2.9	61
421	Blockade of nitric oxide synthesis in rats strongly attenuates the CBF response to extracellular acidosis. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 1993 , 13, 535-9	7.3	61
420	Evaluating gradient artifact correction of EEG data acquired simultaneously with fMRI. <i>Magnetic Resonance Imaging</i> , 2007 , 25, 923-32	3.3	60
419	Event-related fMRI of the somatosensory system using electrical finger stimulation. <i>NeuroReport</i> , 2002 , 13, 365-9	1.7	60
418	Effects of repetitive transcranial magnetic stimulation over dorsolateral prefrontal and posterior parietal cortex on memory-guided saccades. <i>Experimental Brain Research</i> , 1998 , 118, 197-204	2.3	59
417	Imaging of leukocytes within the rat brain cortex in vivo. <i>Microvascular Research</i> , 1991 , 42, 305-15	3.7	59
416	Longitudinal effects of lesions on functional networks after stroke. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2013 , 33, 1279-85	7.3	58
415	Cortical thickness in primary sensorimotor cortex influences the effectiveness of paired associative stimulation. <i>NeuroImage</i> , 2012 , 60, 864-70	7.9	58
414	Anodal transcranial direct current stimulation (tDCS) over supplementary motor area (SMA) but not pre-SMA promotes short-term visuomotor learning. <i>Brain Stimulation</i> , 2013 , 6, 101-7	5.1	57

413	The human somatosensory system: from perception to decision making. <i>Progress in Neurobiology</i> , 2013 , 103, 76-97	10.9	57
412	State-dependencies of learning across brain scales. <i>Frontiers in Computational Neuroscience</i> , 2015 , 9, 1	3.5	57
411	Progesterone mediates brain functional connectivity changes during the menstrual cycle-a pilot resting state MRI study. <i>Frontiers in Neuroscience</i> , 2015 , 9, 44	5.1	56
410	Ultrahigh-frequency EEG during fMRI: pushing the limits of imaging-artifact correction. <i>NeuroImage</i> , 2009 , 48, 94-108	7.9	56
409	In-vivo Dynamics of the Human Hippocampus across the Menstrual Cycle. <i>Scientific Reports</i> , 2016 , 6, 32833	3.9	55
408	Components of a Mediterranean diet and their impact on cognitive functions in aging. <i>Frontiers in Aging Neuroscience</i> , 2015 , 7, 132	5.3	55
407	. <i>Proceedings of the IEEE</i> , 2015 , 103, 1507-1530	14.3	54
406	Exenatide-induced reduction in energy intake is associated with increase in hypothalamic connectivity. <i>Diabetes Care</i> , 2013 , 36, 1933-40	14.6	54
405	In-vivo confocal scanning laser microscopy of the cerebral microcirculation. <i>Journal of Microscopy</i> , 1992 , 165, 147-57	1.9	54
404	Multiple mechanisms link prestimulus neural oscillations to sensory responses. <i>ELife</i> , 2019 , 8,	8.9	54
403	Higher body mass index in older adults is associated with lower gray matter volume: implications for memory performance. <i>Neurobiology of Aging</i> , 2016 , 40, 1-10	5.6	53
402	The functional neuroanatomy of visual conjunction search: a parametric fMRI study. <i>NeuroImage</i> , 2003 , 20, 1578-90	7.9	53
401	Visceral obesity relates to deep white matter hyperintensities via inflammation. <i>Annals of Neurology</i> , 2019 , 85, 194-203	9.4	53
400	Noninvasive near infrared spectroscopy monitoring of regional cerebral blood oxygenation changes during peri-infarct depolarizations in focal cerebral ischemia in the rat. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 1997 , 17, 950-4	7.3	52
399	Increased functional connectivity between prefrontal cortex and reward system in pathological gambling. <i>PLoS ONE</i> , 2013 , 8, e84565	3.7	51
398	Dissociating behavioral disorders in early dementia-An FDG-PET study. <i>Psychiatry Research - Neuroimaging</i> , 2011 , 194, 235-244	2.9	51
397	Increased serotonin transporter availability in the brainstem of migraineurs. <i>Journal of Neurology</i> , 2007 , 254, 789-96	5.5	51
396	Three-dimensional reconstruction of the rat brain cortical microcirculation in vivo. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 1991 , 11, 353-60	7.3	51

395	Validating serum S100B and neuron-specific enolase as biomarkers for the human brain - a combined serum, gene expression and MRI study. <i>PLoS ONE</i> , 2012 , 7, e43284	3.7	51
394	Dynamic network participation of functional connectivity hubs assessed by resting-state fMRI. <i>Frontiers in Human Neuroscience</i> , 2014 , 8, 195	3.3	50
393	Relationship between imaging biomarkers, age, progression and symptom severity in Alzheimer's disease. <i>NeuroImage: Clinical</i> , 2013 , 3, 84-94	5.3	49
392	Dissociating memory networks in early Alzheimer's disease and frontotemporal lobar degeneration - a combined study of hypometabolism and atrophy. <i>PLoS ONE</i> , 2013 , 8, e55251	3.7	49
391	Nitric oxide synthase blockade enhances vasomotion in the cerebral microcirculation of anesthetized rats. <i>Microvascular Research</i> , 1993 , 45, 318-23	3.7	49
390	Gender Influences on Brain Responses to Errors and Post-Error Adjustments. <i>Scientific Reports</i> , 2016 , 6, 24435	4.9	48
389	Rapid and specific gray matter changes in M1 induced by balance training. <i>NeuroImage</i> , 2016 , 133, 399-407	4.7	48
388	High-resolution optical functional mapping of the human somatosensory cortex. <i>Frontiers in Neuroenergetics</i> , 2010 , 2, 12		48
387	Functional assessment of Broca's area using near infrared spectroscopy in humans. <i>NeuroReport</i> , 2003 , 14, 1961-5	1.7	48
386	Peptide hormones regulating appetite--focus on neuroimaging studies in humans. <i>Diabetes/Metabolism Research and Reviews</i> , 2011 , 27, 104-12	7.5	47
385	Interhemispheric interactions between the human primary somatosensory cortices. <i>PLoS ONE</i> , 2011 , 6, e16150	3.7	47
384	Overlapping and parallel cerebello-cerebral networks contributing to sensorimotor control: an intrinsic functional connectivity study. <i>NeuroImage</i> , 2013 , 83, 837-48	7.9	46
383	Role of ventral striatum in reward-based decision making. <i>NeuroReport</i> , 2007 , 18, 951-5	1.7	46
382	Confocal laser microscopy to study microcirculation on the rat brain surface in vivo. <i>Brain Research</i> , 1989 , 504, 159-60	3.7	46
381	Heart-brain interactions shape somatosensory perception and evoked potentials. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 10575-10584	11.5	45
380	Internal ventilation system of MR scanners induces specific EEG artifact during simultaneous EEG-fMRI. <i>NeuroImage</i> , 2013 , 74, 70-6	7.9	45
379	High-resolution MRI and diffusion-weighted imaging of the human habenula at 7 tesla. <i>Journal of Magnetic Resonance Imaging</i> , 2014 , 39, 1018-26	5.6	45
378	Perfusion and diffusion magnetic resonance imaging in human cerebral venous thrombosis. <i>Journal of Neurology</i> , 2001 , 248, 564-71	5.5	45

377	Simultaneous near-infrared spectroscopy monitoring of left and right occipital areas reveals contra-lateral hemodynamic changes upon hemi-field paradigm. <i>Vision Research</i> , 2001 , 41, 97-102	2.1	45
376	Transcranial direct current stimulation (tDCS) over primary motor cortex leg area promotes dynamic balance task performance. <i>Clinical Neurophysiology</i> , 2016 , 127, 2455-62	4.3	45
375	Early small vessel disease affects frontoparietal and cerebellar hubs in close correlation with clinical symptoms--a resting-state fMRI study. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2014 , 34, 1091-5	7.3	44
374	Body Topography Parcellates Human Sensory and Motor Cortex. <i>Cerebral Cortex</i> , 2017 , 27, 3790-3805	5.1	44
373	Physical exercise in overweight to obese individuals induces metabolic- and neurotrophic-related structural brain plasticity. <i>Frontiers in Human Neuroscience</i> , 2015 , 9, 372	3.3	44
372	Endurance Exercise as an "Endogenous" Neuro-enhancement Strategy to Facilitate Motor Learning. <i>Frontiers in Human Neuroscience</i> , 2015 , 9, 692	3.3	44
371	Excessive oxygen or glucose supply does not alter the blood flow response to somatosensory stimulation or spreading depression in rats. <i>Brain Research</i> , 1997 , 761, 290-9	3.7	44
370	Dynamic causal modeling suggests serial processing of tactile vibratory stimuli in the human somatosensory cortex--an fMRI study. <i>NeuroImage</i> , 2013 , 74, 164-71	7.9	43
369	Cerebellar-parietal connections underpin phonological storage. <i>Journal of Neuroscience</i> , 2014 , 34, 5029-36	3.7	43
368	Immune responses after acute ischemic stroke or myocardial infarction. <i>International Journal of Cardiology</i> , 2012 , 155, 372-7	3.2	43
367	Population-based intervention to reduce prehospital delays in patients with cerebrovascular events. <i>Archives of Internal Medicine</i> , 2009 , 169, 1484-90		43
366	B-waves in healthy persons. <i>Neurological Research</i> , 1989 , 11, 194-6	2.7	43
365	Effects of resveratrol on memory performance, hippocampus connectivity and microstructure in older adults - A randomized controlled trial. <i>NeuroImage</i> , 2018 , 174, 177-190	7.9	42
364	Evidence from neuroimaging for the role of the menstrual cycle in the interplay of emotion and cognition. <i>Frontiers in Human Neuroscience</i> , 2013 , 7, 374	3.3	42
363	Diffusion-weighted imaging in acute stroke--a tool of uncertain value?. <i>Cerebrovascular Diseases</i> , 2002 , 14, 187-96	3.2	42
362	Separation of changes in light scattering and chromophore concentrations during cortical spreading depression in rats. <i>Optics Letters</i> , 1998 , 23, 555-7	3	42
361	Prevalence and risk factors of depressive symptoms in latest life--results of the Leipzig Longitudinal Study of the Aged (LEILA 75+). <i>International Journal of Geriatric Psychiatry</i> , 2012 , 27, 286-93	3.9	41
360	Three-dimensional mean-shift edge bundling for the visualization of functional connectivity in the brain. <i>IEEE Transactions on Visualization and Computer Graphics</i> , 2014 , 20, 471-80	4	41

359	Proprioceptive head posture-related processing in human polysensory cortical areas. <i>NeuroImage</i> , 2008 , 40, 1232-42	7.9	41
358	Progressive change in primary progressive multiple sclerosis normal-appearing white matter: a serial diffusion magnetic resonance imaging study. <i>Multiple Sclerosis Journal</i> , 2004 , 10, 182-7	5	41
357	Eating Behaviour in the General Population: An Analysis of the Factor Structure of the German Version of the Three-Factor-Eating-Questionnaire (TFEQ) and Its Association with the Body Mass Index. <i>PLoS ONE</i> , 2015 , 10, e0133977	3.7	40
356	The value of resting-state functional magnetic resonance imaging in stroke. <i>Stroke</i> , 2014 , 45, 2818-24	6.7	40
355	Bidirectional gray matter changes after complex motor skill learning. <i>Frontiers in Systems Neuroscience</i> , 2012 , 6, 37	3.5	40
354	Systemic nitric oxide synthase inhibition does not affect brain oxygenation during cortical spreading depression in rats: a noninvasive near-infrared spectroscopy and laser-Doppler flowmetry study. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 1996 , 16, 1100-7	7.3	40
353	Near-infrared spectroscopy in functional activation studies. Can NIRS demonstrate cortical activation?. <i>Advances in Experimental Medicine and Biology</i> , 1997 , 413, 113-27	3.6	39
352	The perception of touch and the ventral somatosensory pathway. <i>Brain</i> , 2015 , 138, 540-8	11.2	38
351	Hepatobiliary MR contrast agents: 5-substituted iron-EHPG derivatives. <i>Magnetic Resonance in Medicine</i> , 1987 , 4, 582-90	4.4	38
350	Iowa gambling task: there is more to consider than long-term outcome. Using a linear equation model to disentangle the impact of outcome and frequency of gains and losses. <i>Frontiers in Neuroscience</i> , 2012 , 6, 61	5.1	37
349	Comparison between single and combined treatment with candesartan and pioglitazone following transient focal ischemia in rat brain. <i>Brain Research</i> , 2008 , 1208, 225-33	3.7	37
348	Clock drawing test - screening utility for mild cognitive impairment according to different scoring systems: results of the Leipzig Longitudinal Study of the Aged (LEILA 75+). <i>International Psychogeriatrics</i> , 2011 , 23, 1592-601	3.4	36
347	High-frequency (600 Hz) population spikes in human EEG delineate thalamic and cortical fMRI activation sites. <i>NeuroImage</i> , 2008 , 42, 483-90	7.9	36
346	Imperceptible somatosensory stimulation alters sensorimotor background rhythm and connectivity. <i>Journal of Neuroscience</i> , 2015 , 35, 5917-25	6.6	35
345	White matter microstructural variability mediates the relation between obesity and cognition in healthy adults. <i>NeuroImage</i> , 2018 , 172, 239-249	7.9	35
344	Comparison of variants of canonical correlation analysis and partial least squares for combined analysis of MRI and genetic data. <i>NeuroImage</i> , 2015 , 107, 289-310	7.9	35
343	Alexithymic features and the labeling of brief emotional facial expressions - An fMRI study. <i>Neuropsychologia</i> , 2014 , 64, 289-99	3.2	35
342	Prior Information biases stimulus representations during vibrotactile decision making. <i>Journal of Cognitive Neuroscience</i> , 2010 , 22, 875-87	3.1	35

341	The use of the 12-item short-form health status instrument in a longitudinal study of patients with stroke and transient ischaemic attack. <i>Neuroepidemiology</i> , 2005 , 24, 196-202	5.4	35
340	Simultaneous assessment of cerebral oxygenation and hemodynamics during a motor task. A combined near infrared and transcranial Doppler sonography study. <i>Advances in Experimental Medicine and Biology</i> , 1997 , 411, 461-9	3.6	34
339	Relationship Between Changes in the Temporal Dynamics of the Blood-Oxygen-Level-Dependent Signal and Hypoperfusion in Acute Ischemic Stroke. <i>Stroke</i> , 2017 , 48, 925-931	6.7	33
338	Synchronization between background activity and visually evoked potential is not mirrored by focal hyperoxygenation: implications for the interpretation of vascular brain imaging. <i>Journal of Neuroscience</i> , 2006 , 26, 4940-8	6.6	33
337	Neural correlates of syntactic transformations. <i>Human Brain Mapping</i> , 2004 , 22, 72-81	5.9	33
336	Decrease in haemoglobin oxygenation during absence seizures in adult humans. <i>Neuroscience Letters</i> , 2004 , 354, 119-22	3.3	33
335	Phasic Modulation of Human Somatosensory Perception by Transcranially Applied Oscillating Currents. <i>Brain Stimulation</i> , 2016 , 9, 712-719	5.1	33
334	White matter hyperintensities associated with small vessel disease impair social cognition beside attention and memory. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2018 , 38, 996-1009	7.3	32
333	Re-thinking the Etiological Framework of Neurodegeneration. <i>Frontiers in Neuroscience</i> , 2019 , 13, 728	5.1	32
332	No Overt Effects of a 6-Week Exergame Training on Sensorimotor and Cognitive Function in Older Adults. A Preliminary Investigation. <i>Frontiers in Human Neuroscience</i> , 2017 , 11, 160	3.3	32
331	Oscillatory brain states interact with late cognitive components of the somatosensory evoked potential. <i>Journal of Neuroscience Methods</i> , 2009 , 183, 49-56	3	32
330	Neural control of vascular reactions: impact of emotion and attention. <i>Journal of Neuroscience</i> , 2014 , 34, 4251-9	6.6	31
329	Power and temporal dynamics of alpha oscillations at rest differentiate cognitive performance involving sustained and phasic cognitive control. <i>NeuroImage</i> , 2019 , 188, 135-144	7.9	31
328	Cerebral oxygenation changes during motor and somatosensory stimulation in humans, as measured by near-infrared spectroscopy. <i>Advances in Experimental Medicine and Biology</i> , 1996 , 388, 219-24	3.6	31
327	Cytochrome-c-oxidase redox changes during visual stimulation measured by near-infrared spectroscopy cannot be explained by a mere cross talk artefact. <i>NeuroImage</i> , 2004 , 22, 109-19	7.9	30
326	Neurovascular coupling analyzed non-invasively in the human brain. <i>NeuroReport</i> , 2004 , 15, 63-6	1.7	30
325	Common genetic variation near MC4R has a sex-specific impact on human brain structure and eating behavior. <i>PLoS ONE</i> , 2013 , 8, e74362	3.7	30
324	Salivary cortisone, as a biomarker for psychosocial stress, is associated with state anxiety and heart rate. <i>Psychoneuroendocrinology</i> , 2019 , 101, 35-41	5	30

323	The association between unemployment and depression-Results from the population-based LIFE-adult-study. <i>Journal of Affective Disorders</i> , 2018 , 235, 399-406	6.6	29
322	Menstrual cycle phase modulates emotional conflict processing in women with and without premenstrual syndrome (PMS)--a pilot study. <i>PLoS ONE</i> , 2013 , 8, e59780	3.7	29
321	Alpha-Band Brain Oscillations Shape the Processing of Perceptible as well as Imperceptible Somatosensory Stimuli during Selective Attention. <i>Journal of Neuroscience</i> , 2017 , 37, 6983-6994	6.6	28
320	Functional neuroimaging in obesity and the potential for development of novel treatments. <i>Lancet Diabetes and Endocrinology</i> , 2016 , 4, 695-705	18.1	28
319	Baseline oxygenation in the brain: Correlation between respiratory-calibration and susceptibility methods. <i>NeuroImage</i> , 2016 , 125, 920-931	7.9	28
318	A functional connectome phenotyping dataset including cognitive state and personality measures. <i>Scientific Data</i> , 2019 , 6, 180307	8.2	28
317	Effect of transcranial direct current stimulation (tDCS) during complex whole body motor skill learning. <i>Neuroscience Letters</i> , 2013 , 552, 76-80	3.3	28
316	A software tool for interactive exploration of intrinsic functional connectivity opens new perspectives for brain surgery. <i>Acta Neurochirurgica</i> , 2011 , 153, 1561-72	3	28
315	Effects of aliskiren on stroke in rats expressing human renin and angiotensinogen genes. <i>PLoS ONE</i> , 2010 , 5, e15052	3.7	28
314	Understanding functional neuroimaging methods based on neurovascular coupling. <i>Advances in Experimental Medicine and Biology</i> , 1997 , 413, 177-93	3.6	28
313	Patient-reported outcomes in adequately treated hypothyroidism - insights from the German versions of ThyDQoL, ThySRQ and ThyTSQ. <i>Health and Quality of Life Outcomes</i> , 2013 , 11, 68	3	27
312	Prevention and intervention studies with telmisartan, ramipril and their combination in different rat stroke models. <i>PLoS ONE</i> , 2011 , 6, e23646	3.7	27
311	Higher body mass index is associated with reduced posterior default mode connectivity in older adults. <i>Human Brain Mapping</i> , 2017 , 38, 3502-3515	5.9	26
310	Failing to learn from negative prediction errors: Obesity is associated with alterations in a fundamental neural learning mechanism. <i>Cortex</i> , 2017 , 95, 222-237	3.8	26
309	Prevalence of DSM-5 Mild Neurocognitive Disorder in Dementia-Free Older Adults: Results of the Population-Based LIFE-Adult-Study. <i>American Journal of Geriatric Psychiatry</i> , 2017 , 25, 328-339	6.5	26
308	Abdominal fat distribution and its relationship to brain changes: the differential effects of age on cerebellar structure and function: a cross-sectional, exploratory study. <i>BMJ Open</i> , 2013 , 3,	3	26
307	Effects of finger tapping frequency on regional homogeneity of sensorimotor cortex. <i>PLoS ONE</i> , 2013 , 8, e64115	3.7	26
306	Preserved responsiveness of secondary somatosensory cortex in patients with thalamic stroke. <i>Cerebral Cortex</i> , 2006 , 16, 1431-9	5.1	26

305	What happens in between? Human oscillatory brain activity related to crossmodal spatial cueing. <i>PLoS ONE</i> , 2008 , 3, e1467	3.7	26
304	Improving motor performance without training: the effect of combining mirror visual feedback with transcranial direct current stimulation. <i>Journal of Neurophysiology</i> , 2015 , 113, 2383-9	3.2	25
303	Association between mental demands at work and cognitive functioning in the general population - results of the health study of the Leipzig research center for civilization diseases (LIFE). <i>Journal of Occupational Medicine and Toxicology</i> , 2014 , 9, 23	2.7	25
302	Impact of anticoagulation before stroke on stroke severity and long-term survival. <i>International Journal of Stroke</i> , 2012 , 7, 544-50	6.3	25
301	Augmenting mirror visual feedback-induced performance improvements in older adults. <i>European Journal of Neuroscience</i> , 2015 , 41, 1475-83	3.5	25
300	Role of nitric oxide synthase inhibition in leukocyte-endothelium interaction in the rat pial microvasculature. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 1996 , 16, 1143-52	7.3	25
299	Intermittent compared to continuous real-time fMRI neurofeedback boosts control over amygdala activation. <i>NeuroImage</i> , 2018 , 166, 198-208	7.9	25
298	Neuroanatomical correlates of food addiction symptoms and body mass index in the general population. <i>Human Brain Mapping</i> , 2019 , 40, 2747-2758	5.9	24
297	Affect and the brain's functional organization: a resting-state connectivity approach. <i>PLoS ONE</i> , 2013 , 8, e68015	3.7	24
296	Transcranial magnetic stimulation intensities in cognitive paradigms. <i>PLoS ONE</i> , 2011 , 6, e24836	3.7	24
295	The value of resting-state functional MRI in subacute ischemic stroke: comparison with dynamic susceptibility contrast-enhanced perfusion MRI. <i>Scientific Reports</i> , 2017 , 7, 41586	4.9	23
294	Common Genetic Variation Indicates Separate Causes for Periventricular and Deep White Matter Hyperintensities. <i>Stroke</i> , 2020 , 51, 2111-2121	6.7	23
293	Visually-Driven Maps in Area 3b. <i>Journal of Neuroscience</i> , 2018 , 38, 1295-1310	6.6	23
292	Physical and organizational provision for installation, regulatory requirements and implementation of a simultaneous hybrid PET/MR-imaging system in an integrated research and clinical setting. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2013 , 26, 159-71	2.8	23
291	Identifying the neural correlates of executive functions in early cerebral microangiopathy: a combined VBM and DTI study. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2012 , 32, 1869-78	7.3	23
290	Sub-area-specific Suppressive Interaction in the BOLD responses to simultaneous finger stimulation in human primary somatosensory cortex: evidence for increasing rostral-to-caudal convergence. <i>Cerebral Cortex</i> , 2006 , 16, 819-26	5.1	23
289	Subcortical lesions after transient thread occlusion in the rat: T2-weighted magnetic resonance imaging findings without corresponding sensorimotor deficits. <i>Journal of Magnetic Resonance Imaging</i> , 2005 , 21, 340-6	5.6	23
288	Association of peripheral blood pressure with gray matter volume in 19- to 40-year-old adults. <i>Neurology</i> , 2019 , 92, e758-e773	6.5	22

287	Automatic emotion processing as a function of trait emotional awareness: an fMRI study. <i>Social Cognitive and Affective Neuroscience</i> , 2015 , 10, 680-9	4	22
286	Feasibility and acceptance of simultaneous amyloid PET/MRI. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2016 , 43, 2236-2243	8.8	22
285	Functional connectivity-based parcellation of the human sensorimotor cortex. <i>European Journal of Neuroscience</i> , 2014 , 39, 1332-42	3.5	22
284	Differential cerebral response to somatosensory stimulation of an acupuncture point vs. two non-acupuncture points measured with EEG and fMRI. <i>Frontiers in Human Neuroscience</i> , 2015 , 9, 74	3.3	22
283	Multidimensional Evaluation of Virtual Reality Paradigms in Clinical Neuropsychology: Application of the VR-Check Framework. <i>Journal of Medical Internet Research</i> , 2020 , 22, e16724	7.6	22
282	Age-, sex-, and education-specific norms for an extended CERAD Neuropsychological Assessment Battery-Results from the population-based LIFE-Adult-Study. <i>Neuropsychology</i> , 2018 , 32, 461-475	3.8	22
281	Outcomes of stable and unstable patterns of subjective cognitive decline - results from the Leipzig Longitudinal Study of the Aged (LEILA75+). <i>BMC Geriatrics</i> , 2016 , 16, 180	4.1	22
280	Role of genetic variants in ADIPOQ in human eating behavior. <i>Genes and Nutrition</i> , 2015 , 10, 449	4.3	21
279	Anodal Transcranial Direct Current Stimulation Does Not Facilitate Dynamic Balance Task Learning in Healthy Old Adults. <i>Frontiers in Human Neuroscience</i> , 2017 , 11, 16	3.3	21
278	Insular activity during passive viewing of aversive stimuli reflects individual differences in state negative affect. <i>Brain and Cognition</i> , 2009 , 69, 73-80	2.7	21
277	Are VEP correlated fast optical signals detectable in the human adult by non-invasive nearinfrared spectroscopy (NIRS)? <i>Advances in Experimental Medicine and Biology</i> , 2003 , 530, 421-31	3.6	21
276	Functional magnetic resonance imaging shows localized brain activation during serial transcranial stimulation in man. <i>NeuroReport</i> , 1996 , 7, 734-6	1.7	21
275	Is it Worth the Effort? Novel Insights into Obesity-Associated Alterations in Cost-Benefit Decision-Making. <i>Frontiers in Behavioral Neuroscience</i> , 2015 , 9, 360	3.5	21
274	Active information sampling varies across the cardiac cycle. <i>Psychophysiology</i> , 2019 , 56, e13322	4.1	21
273	Elevated brain oxygen extraction fraction measured by MRI susceptibility relates to perfusion status in acute ischemic stroke. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2020 , 40, 539-551	7.3	21
272	Combining magnetic resonance imaging within six-hours of symptom onset with clinical follow-up at 24 h improves prediction of malignant middle cerebral artery infarction. <i>International Journal of Stroke</i> , 2014 , 9, 210-4	6.3	20
271	Structural and functional MRI study of the brain, cognition and mood in long-term adequately treated Hashimoto's thyroiditis. <i>Psychoneuroendocrinology</i> , 2014 , 42, 188-98	5	20
270	Instrument specific use-dependent plasticity shapes the anatomical properties of the corpus callosum: a comparison between musicians and non-musicians. <i>Frontiers in Behavioral Neuroscience</i> , 2014 , 8, 245	3.5	20

269	Reversed timing-dependent associative plasticity in the human brain through interhemispheric interactions. <i>Journal of Neurophysiology</i> , 2013 , 109, 2260-71	3.2	20
268	Length of resting period between stimulation cycles modulates hemodynamic response to a motor stimulus. <i>Advances in Experimental Medicine and Biology</i> , 1997 , 411, 471-80	3.6	20
267	Altered monetary loss processing and reinforcement-based learning in individuals with obesity. <i>Brain Imaging and Behavior</i> , 2018 , 12, 1431-1449	4.1	19
266	Alexithymia and the labeling of facial emotions: response slowing and increased motor and somatosensory processing. <i>BMC Neuroscience</i> , 2014 , 15, 40	3.2	19
265	Mapping of the internal structure of human habenula with ex vivo MRI at 7T. <i>Frontiers in Human Neuroscience</i> , 2013 , 7, 878	3.3	19
264	Parietal activation during visual search in the absence of multiple distractors. <i>NeuroReport</i> , 2003 , 14, 2257-61	1.7	19
263	Diagnosis of superior sagittal sinus thrombosis by three-dimensional magnetic resonance flow imaging. <i>Lancet, The</i> , 1989 , 1, 1086-7	4.0	19
262	Leptin Substitution in Patients With Lipodystrophy: Neural Correlates for Long-term Success in the Normalization of Eating Behavior. <i>Diabetes</i> , 2016 , 65, 2179-86	0.9	19
261	Immediate brain plasticity after one hour of brain-computer interface (BCI). <i>Journal of Physiology</i> , 2021 , 599, 2435-2451	3.9	19
260	Gray matter structural networks are associated with cardiovascular risk factors in healthy older adults. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2018 , 38, 360-372	7.3	18
259	Modulation of Somatosensory Alpha Rhythm by Transcranial Alternating Current Stimulation at Mu-Frequency. <i>Frontiers in Human Neuroscience</i> , 2017 , 11, 432	3.3	18
258	Mortality in Individuals with Subjective Cognitive Decline: Results of the Leipzig Longitudinal Study of the Aged (LEILA75+). <i>Journal of Alzheimer's Disease</i> , 2015 , 48 Suppl 1, S33-42	4.3	18
257	Depression and incident dementia. An 8-year population-based prospective study. <i>PLoS ONE</i> , 2013 , 8, e59246	3.7	18
256	Gender differences in knowledge of stroke in patients with atrial fibrillation. <i>Preventive Medicine</i> , 2005 , 41, 226-31	4.3	18
255	Stopping at the sight of food - How gender and obesity impact on response inhibition. <i>Appetite</i> , 2016 , 107, 663-676	4.5	18
254	Brain Damage With Heart Failure: Cardiac Biomarker Alterations and Gray Matter Decline. <i>Circulation Research</i> , 2020 , 126, 750-764	15.7	17
253	Mirror Motor Activity During Right-Hand Contractions and Its Relation to White Matter in the Posterior Midbody of the Corpus Callosum. <i>Cerebral Cortex</i> , 2016 , 26, 4347-4355	5.1	17
252	Functional and structural correlates of motor speed in the cerebellar anterior lobe. <i>PLoS ONE</i> , 2014 , 9, e96871	3.7	17

251	Diagnostic transcranial ultrasound perfusion-imaging at 2.5 MHz does not affect the blood-brain barrier. <i>Ultrasound in Medicine and Biology</i> , 2008 , 34, 147-50	3.5	17
250	Slips of Action and Sequential Decisions: A Cross-Validation Study of Tasks Assessing Habitual and Goal-Directed Action Control. <i>Frontiers in Behavioral Neuroscience</i> , 2016 , 10, 234	3.5	17
249	Non-invasive monitoring of longitudinal changes in cerebral hemodynamics in acute ischemic stroke using BOLD signal delay. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2020 , 40, 23-34	7.3	17
248	The ENIGMA Stroke Recovery Working Group: Big data neuroimaging to study brain-behavior relationships after stroke. <i>Human Brain Mapping</i> , 2020 ,	5.9	17
247	Open Science CBS Neuroimaging Repository: Sharing ultra-high-field MR images of the brain. <i>NeuroImage</i> , 2016 , 124, 1143-1148	7.9	16
246	Memory-related subjective cognitive symptoms in the adult population: prevalence and associated factors - results of the LIFE-Adult-Study. <i>BMC Psychology</i> , 2018 , 6, 23	2.8	16
245	Gamma and Beta Oscillations in Human MEG Encode the Contents of Vibrotactile Working Memory. <i>Frontiers in Human Neuroscience</i> , 2017 , 11, 576	3.3	16
244	Association of the apolipoprotein E genotype with memory performance and executive functioning in cognitively intact elderly. <i>Neuropsychology</i> , 2015 , 29, 382-387	3.8	16
243	Electrical noise modulates perception of electrical pulses in humans: sensation enhancement via stochastic resonance. <i>Journal of Neurophysiology</i> , 2014 , 111, 1238-48	3.2	16
242	Brain imaging in the context of food perception and eating. <i>Current Opinion in Lipidology</i> , 2013 , 24, 18-24	4.4	16
241	Editorial comment--cerebral near-infrared spectroscopy: how far away from a routine diagnostic tool?. <i>Stroke</i> , 2004 , 35, 70-2	6.7	16
240	Genetic correlations and genome-wide associations of cortical structure in general population samples of 22,824 adults. <i>Nature Communications</i> , 2020 , 11, 4796	17.4	16
239	Genome-wide association study of 23,500 individuals identifies 7 loci associated with brain ventricular volume. <i>Nature Communications</i> , 2018 , 9, 3945	17.4	16
238	Functional Neuroimaging. <i>Advances in Experimental Medicine and Biology</i> , 1997 , 1-18	3.6	16
237	Recursion in action: An fMRI study on the generation of new hierarchical levels in motor sequences. <i>Human Brain Mapping</i> , 2019 , 40, 2623-2638	5.9	15
236	The neural networks of subjectively evaluated emotional conflicts. <i>Human Brain Mapping</i> , 2016 , 37, 2234-46	5.46	15
235	Invisible visual stimuli elicit increases in alpha-band power. <i>Journal of Neurophysiology</i> , 2014 , 112, 1082-90	3.2	15
234	Should transesophageal echocardiography be performed in acute stroke patients with atrial fibrillation?. <i>Journal of Clinical Neuroscience</i> , 2013 , 20, 554-9	2.2	15

233	In need of constraint: Understanding the role of the cingulate cortex in the impulsive mind. <i>NeuroImage</i> , 2017 , 146, 804-813	7.9	15
232	First evidence for glial pathology in late life minor depression: S100B is increased in males with minor depression. <i>Frontiers in Cellular Neuroscience</i> , 2015 , 9, 406	6.1	15
231	Facilitation of inferior frontal cortex by transcranial direct current stimulation induces perceptual learning of severely degraded speech. <i>Journal of Neuroscience</i> , 2013 , 33, 15868-78	6.6	15
230	Musical feedback during exercise machine workout enhances mood. <i>Frontiers in Psychology</i> , 2013 , 4, 921	3.4	15
229	Towards brain mapping combining near-infrared spectroscopy and high resolution 3D MRI. <i>Advances in Experimental Medicine and Biology</i> , 1997 , 413, 139-47	3.6	15
228	Sustained Effects of Acupuncture Stimulation Investigated with Centrality Mapping Analysis. <i>Frontiers in Human Neuroscience</i> , 2016 , 10, 510	3.3	15
227	Transcranial Alternating Current Stimulation at Beta Frequency: Lack of Immediate Effects on Excitation and Interhemispheric Inhibition of the Human Motor Cortex. <i>Frontiers in Human Neuroscience</i> , 2016 , 10, 560	3.3	15
226	Chronic sensory stroke with and without central pain is associated with bilaterally distributed sensory abnormalities as detected by quantitative sensory testing. <i>Pain</i> , 2016 , 157, 194-202	8	15
225	Modulation of Cognitive and Emotional Control in Age-Related Mild-to-Moderate Hearing Loss. <i>Frontiers in Neurology</i> , 2018 , 9, 783	4.1	15
224	Unhealthy yet Avoidable-How Cognitive Bias Modification Alters Behavioral and Brain Responses to Food Cues in Individuals with Obesity. <i>Nutrients</i> , 2019 , 11,	6.7	14
223	Weight loss reduces head motion: Revisiting a major confound in neuroimaging. <i>Human Brain Mapping</i> , 2020 , 41, 2490-2494	5.9	14
222	Physical Exercise and Spatial Training: A Longitudinal Study of Effects on Cognition, Growth Factors, and Hippocampal Plasticity. <i>Scientific Reports</i> , 2018 , 8, 4239	4.9	14
221	High resolution atlas of the venous brain vasculature from 7 T quantitative susceptibility maps. <i>Brain Structure and Function</i> , 2019 , 224, 2467-2485	4	14
220	The role of dopamine in positive and negative prediction error utilization during incidental learning - Insights from Positron Emission Tomography, Parkinson's disease and Huntington's disease. <i>Cortex</i> , 2017 , 90, 149-162	3.8	14
219	Morphometric gray matter differences of the medial frontal cortex influence the Social Simon Effect. <i>NeuroImage</i> , 2012 , 61, 1249-54	7.9	14
218	Enhancing the effect of repetitive I-wave paired-pulse TMS (iTMS) by adjusting for the individual I-wave periodicity. <i>BMC Neuroscience</i> , 2011 , 12, 45	3.2	14
217	Inhibitory impact of subliminal electrical finger stimulation on SI representation and perceptual sensitivity of an adjacent finger. <i>NeuroImage</i> , 2008 , 39, 1307-13	7.9	14
216	Correcting saturation effects of the arterial input function in dynamic susceptibility contrast-enhanced MRI: a Monte Carlo simulation. <i>Magnetic Resonance Imaging</i> , 2007 , 25, 1300-11	3.3	14

215	MRI of small human stroke shows reversible diffusion changes in subcortical gray matter. <i>NeuroReport</i> , 2000 , 11, 2021-4	1.7	14
214	Inhibition of cell-free protein synthesis by low-molecular-weight RNAs from free cytoplasmic ribonucleoprotein particles. <i>FEBS Journal</i> , 1982 , 126, 181-8		14
213	Focal retrograde amnesia: voxel-based morphometry findings in a case without MRI lesions. <i>PLoS ONE</i> , 2011 , 6, e26538	3.7	14
212	Association of Estradiol and Visceral Fat With Structural Brain Networks and Memory Performance in Adults. <i>JAMA Network Open</i> , 2019 , 2, e196126	10.4	13
211	Colocalized White Matter Plasticity and Increased Cerebral Blood Flow Mediate the Beneficial Effect of Cardiovascular Exercise on Long-Term Motor Learning. <i>Journal of Neuroscience</i> , 2020 , 40, 2416-2429	6.6	13
210	The impact of ischemic stroke on connectivity gradients. <i>NeuroImage: Clinical</i> , 2019 , 24, 101947	5.3	13
209	Anatomical differences in the human inferior colliculus relate to the perceived valence of musical consonance and dissonance. <i>European Journal of Neuroscience</i> , 2013 , 38, 3099-105	3.5	13
208	Using positron emission tomography to investigate hormone-mediated neurochemical changes across the female lifespan: implications for depression. <i>International Review of Psychiatry</i> , 2017 , 29, 580-596	3.6	13
207	The Influence of Negative Emotion on Cognitive and Emotional Control Remains Intact in Aging. <i>Frontiers in Aging Neuroscience</i> , 2017 , 9, 349	5.3	13
206	Evidence that glypican is a receptor mediating beta-amyloid neurotoxicity in PC12 cells. <i>European Journal of Neuroscience</i> , 1998 , 10, 2085-93	3.5	13
205	Medical management in patients following stroke and transitory ischemic attack: a comparison between men and women. <i>Cerebrovascular Diseases</i> , 2006 , 21, 329-35	3.2	13
204	Syntax in Action Has Priority over Movement Selection in Piano Playing: An ERP Study. <i>Journal of Cognitive Neuroscience</i> , 2016 , 28, 41-54	3.1	12
203	Predicting the Response to Non-invasive Brain Stimulation in Stroke. <i>Frontiers in Neurology</i> , 2019 , 10, 302	4.1	12
202	Interactions between cardiac activity and conscious somatosensory perception. <i>Psychophysiology</i> , 2019 , 56, e13424	4.1	12
201	Flexible adaptive paradigms for fMRI using a novel software package Brain Analysis in Real-TimeN (BART). <i>PLoS ONE</i> , 2015 , 10, e0118890	3.7	12
200	Connections between intraparietal sulcus and a sensorimotor network underpin sustained tactile attention. <i>Journal of Neuroscience</i> , 2015 , 35, 7938-49	6.6	12
199	Does the clock drawing test predict dementia? Results of the Leipzig longitudinal study of the aged (LEILA 75+). <i>Dementia and Geriatric Cognitive Disorders</i> , 2011 , 31, 89-97	2.6	12
198	Neural correlates of the interaction between transient and sustained processes: a mixed blocked/event-related fMRI study. <i>Human Brain Mapping</i> , 2006 , 27, 545-51	5.9	12

197	Sustained spatial attention to vibrotactile stimulation in the flutter range: relevant brain regions and their interaction. <i>PLoS ONE</i> , 2013 , 8, e84196	3.7	12
196	Dual Time-Point [18F]Florbetaben PET Delivers Dual Biomarker Information in Mild Cognitive Impairment and Alzheimer's Disease. <i>Journal of Alzheimer's Disease</i> , 2018 , 66, 1105-1116	4.3	12
195	WOME: Theory-Based Working Memory Training - A Placebo-Controlled, Double-Blind Evaluation in Older Adults. <i>Frontiers in Aging Neuroscience</i> , 2018 , 10, 247	5.3	12
194	Acute psychosocial stress alters thalamic network centrality. <i>NeuroImage</i> , 2019 , 199, 680-690	7.9	11
193	Age-Related Changes of Peak Width Skeletonized Mean Diffusivity (PSMD) Across the Adult Lifespan: A Multi-Cohort Study. <i>Frontiers in Psychiatry</i> , 2020 , 11, 342	5	11
192	Dissociable neural correlates of stimulation intensity and detection in somatosensation. <i>NeuroImage</i> , 2020 , 217, 116908	7.9	11
191	Musical Agency during Physical Exercise Decreases Pain. <i>Frontiers in Psychology</i> , 2017 , 8, 2312	3.4	11
190	Shorter-lived neural taste representations in obese compared to lean individuals. <i>Scientific Reports</i> , 2018 , 8, 11027	4.9	11
189	A novel ring electrode setup for the recording of somatosensory evoked potentials during transcranial direct current stimulation (tDCS). <i>Journal of Neuroscience Methods</i> , 2013 , 212, 234-6	3	11
188	Switching between hands in a serial reaction time task: a comparison between young and old adults. <i>Frontiers in Aging Neuroscience</i> , 2015 , 7, 176	5.3	11
187	Background and evoked activity and their interaction in the human brain. <i>Magnetic Resonance Imaging</i> , 2009 , 27, 1140-50	3.3	11
186	Near-Infrared Spectroscopy and Imaging 2002 , 141-158		11
185	Assessment of diffusion and perfusion deficits in patients with small subcortical ischemia. <i>American Journal of Neuroradiology</i> , 2003 , 24, 1355-63	4.4	11
184	Reduced Olfactory Bulb Volume in Obesity and Its Relation to Metabolic Health Status. <i>Frontiers in Human Neuroscience</i> , 2020 , 14, 586998	3.3	11
183	Insulin Resistance Is Associated with Reduced Food Odor Sensitivity across a Wide Range of Body Weights. <i>Nutrients</i> , 2020 , 12,	6.7	11
182	Testosterone imbalance may link depression and increased body weight in premenopausal women. <i>Translational Psychiatry</i> , 2019 , 9, 160	8.6	10
181	(Epi)genetic regulation of CRT1 in human eating behaviour and fat distribution. <i>EBioMedicine</i> , 2019 , 44, 476-488	8.8	10
180	Kinematic profiles suggest differential control processes involved in bilateral in-phase and anti-phase movements. <i>Scientific Reports</i> , 2019 , 9, 3273	4.9	10

179	Identifying neural correlates of memory and language disturbances in herpes simplex encephalitis: a voxel-based morphometry (VBM) study. <i>Journal of Neurology</i> , 2015 , 262, 563-9	5.5	10
178	Vessel segmentation from quantitative susceptibility maps for local oxygenation venography 2016 ,		10
177	Alcohol consumption is positively associated with fasting serum ghrelin in non-dependent adults: Results from the population-based LIFE-Adult-Study. <i>Psychoneuroendocrinology</i> , 2018 , 97, 143-148	5	10
176	Social Network Types in Old Age and Incident Dementia. <i>Journal of Geriatric Psychiatry and Neurology</i> , 2018 , 31, 163-170	3.8	10
175	A Metabolic Obesity Profile Is Associated With Decreased Gray Matter Volume in Cognitively Healthy Older Adults. <i>Frontiers in Aging Neuroscience</i> , 2019 , 11, 202	5.3	10
174	High-resolution diffusion-weighted imaging identifies ischemic lesions in a majority of transient ischemic attack patients. <i>Annals of Neurology</i> , 2019 , 86, 452-457	9.4	10
173	The role of rs2237781 within GRM8 in eating behavior. <i>Brain and Behavior</i> , 2013 , 3, 495-502	3.4	10
172	Grammaticality judgments on sentences with and without movement of phrasal constituents in event-related fMRI study. <i>Journal of Neurolinguistics</i> , 2003 , 16, 301-314	1.9	10
171	Vasospastic amaurosis fugax in a patient with overlap collagenosis treated with nimodipine. <i>Neurological Research</i> , 1995 , 17, 66-9	2.7	10
170	Hemispheric asymmetries in resting-state EEG and fMRI are related to approach and avoidance behaviour, but not to eating behaviour or BMI. <i>Human Brain Mapping</i> , 2020 , 41, 1136-1152	5.9	10
169	Remote Effects of Non-Invasive Cerebellar Stimulation on Error Processing in Motor Re-Learning. <i>Brain Stimulation</i> , 2016 , 9, 692-699	5.1	10
168	Semi-automated generation of individual computational models of the human head and torso from MR images. <i>Magnetic Resonance in Medicine</i> , 2019 , 81, 2090-2105	4.4	10
167	Neural synchrony indexes impaired motor slowing after errors and novelty following white matter damage. <i>Neurobiology of Aging</i> , 2016 , 38, 205-213	5.6	9
166	Serum BDNF correlates with connectivity in the (pre)motor hub in the aging human brain--a resting-state fMRI pilot study. <i>Neurobiology of Aging</i> , 2016 , 38, 181-187	5.6	9
165	Interindividual differences in gray and white matter properties are associated with early complex motor skill acquisition. <i>Human Brain Mapping</i> , 2019 , 40, 4316-4330	5.9	9
164	Investigating Neuroanatomical Features in Top Athletes at the Single Subject Level. <i>PLoS ONE</i> , 2015 , 10, e0129508	3.7	9
163	Novel therapy approach in primary stroke prevention: simultaneous inhibition of endothelin converting enzyme and neutral endopeptidase in spontaneously hypertensive, stroke-prone rats improves survival. <i>Neurological Research</i> , 2011 , 33, 201-7	2.7	9
162	Human cortical areas involved in sustaining perceptual stability during smooth pursuit eye movements. <i>Human Brain Mapping</i> , 2008 , 29, 300-11	5.9	9

161	Inhibition and functional magnetic resonance imaging. <i>International Congress Series</i> , 2002 , 1235, 213-222		9
160	Obesity Associated Cerebral Gray and White Matter Alterations Are Interrelated in the Female Brain. <i>PLoS ONE</i> , 2014 , 9, e114206	3.7	9
159	APOE e4-genotype and lifestyle interaction on cognitive performance: Results of the LIFE-Adult-study. <i>Health Psychology</i> , 2018 , 37, 194-205	5	9
158	Blame it on the bossa nova: Transfer of perceived sexiness from music to touch. <i>Journal of Experimental Psychology: General</i> , 2017 , 146, 1360-1365	4.7	9
157	Temporal Signatures of Criticality in Human Cortical Excitability as Probed by Early Somatosensory Responses. <i>Journal of Neuroscience</i> , 2020 , 40, 6572-6583	6.6	9
156	Differential heart rate responses to social and monetary reinforcement in women with obesity. <i>Psychophysiology</i> , 2016 , 53, 868-79	4.1	9
155	Could High Mental Demands at Work Offset the Adverse Association Between Social Isolation and Cognitive Functioning? Results of the Population-Based LIFE-Adult-Study. <i>American Journal of Geriatric Psychiatry</i> , 2017 , 25, 1258-1269	6.5	8
154	Structural connectivity prior to whole-body sensorimotor skill learning associates with changes in resting state functional connectivity. <i>NeuroImage</i> , 2019 , 197, 191-199	7.9	8
153	Corticomuscular interactions during different movement periods in a multi-joint compound movement. <i>Scientific Reports</i> , 2020 , 10, 5021	4.9	8
152	Structural Neural Correlates of Physiological Mirror Activity During Isometric Contractions of Non-Dominant Hand Muscles. <i>Scientific Reports</i> , 2018 , 8, 9178	4.9	8
151	Effects of psychological eating behaviour domains on the association between socio-economic status and BMI. <i>Public Health Nutrition</i> , 2017 , 20, 2706-2712	3.3	8
150	Cardiac Concomitants of Feedback and Prediction Error Processing in Reinforcement Learning. <i>Frontiers in Neuroscience</i> , 2017 , 11, 598	5.1	8
149	Benefits of listening to a recording of euphoric joint music making in polydrug abusers. <i>Frontiers in Human Neuroscience</i> , 2015 , 9, 300	3.3	8
148	Inverse mismatch and lesion growth in small subcortical ischaemic stroke. <i>European Radiology</i> , 2010 , 20, 2983-9	8	8
147	Evaluation of an AIF correction algorithm for dynamic susceptibility contrast-enhanced perfusion MRI. <i>Magnetic Resonance in Medicine</i> , 2008 , 60, 102-10	4.4	8
146	Changes of hand switching costs during bimanual sequential learning. <i>PLoS ONE</i> , 2012 , 7, e45857	3.7	8
145	Mindreading From the Eyes Declines With Aging - Evidence From 1,603 Subjects. <i>Frontiers in Aging Neuroscience</i> , 2020 , 12, 550416	5.3	8
144	Transient Amplitude Modulation of Alpha-Band Oscillations by Short-Time Intermittent Closed-Loop tACS. <i>Frontiers in Human Neuroscience</i> , 2020 , 14, 366	3.3	8

143	Beneficial effects of leptin substitution on impaired eating behavior in lipodystrophy are sustained beyond 150 weeks of treatment. <i>Cytokine</i> , 2019 , 113, 400-404	4	8
142	Higher fasting ghrelin serum levels in active smokers than in former and never-smokers. <i>World Journal of Biological Psychiatry</i> , 2020 , 21, 748-756	3.8	8
141	Unraveling connectivity changes due to dopaminergic therapy in chronically treated Parkinson's disease patients. <i>Scientific Reports</i> , 2018 , 8, 14328	4.9	8
140	Neural Correlates of Mirror Visual Feedback-Induced Performance Improvements: A Resting-State fMRI Study. <i>Frontiers in Human Neuroscience</i> , 2017 , 11, 54	3.3	7
139	The intravascular susceptibility effect and the underlying physiology of fMRI. <i>NeuroImage</i> , 2012 , 62, 995-999	7	7
138	Connectivity concordance mapping: a new tool for model-free analysis of fMRI data of the human brain. <i>Frontiers in Systems Neuroscience</i> , 2012 , 6, 13	3.5	7
137	Coagulopathies in ischemic stroke. <i>Stroke</i> , 2001 , 32, 1234-7	6.7	7
136	EEG Quality: The Image Acquisition Artefact 2009 , 153-171		7
135	Cerebral Sinus Venous Thrombosis 1994 , 654-660		7
134	The Obesity-Susceptibility Gene TMEM18 Promotes Adipogenesis through Activation of PPARG. <i>Cell Reports</i> , 2020 , 33, 108295	10.6	7
133	Cortical thickness and resting-state cardiac function across the lifespan: A cross-sectional pooled mega-analysis. <i>Psychophysiology</i> , 2021 , 58, e13688	4.1	7
132	Decoding Subjective Emotional Arousal during a Naturalistic VR Experience from EEG Using LSTMs 2018 ,		7
131	Parasympathetic cardio-regulation during social interactions in individuals with obesity-The influence of negative body image. <i>Cognitive, Affective and Behavioral Neuroscience</i> , 2017 , 17, 330-347	3.5	6
130	10Kin1day: A Bottom-Up Neuroimaging Initiative. <i>Frontiers in Neurology</i> , 2019 , 10, 425	4.1	6
129	Genetic variants in AKR1B10 associate with human eating behavior. <i>BMC Genetics</i> , 2015 , 16, 31	2.6	6
128	The effect of high vs. low intensity neuropsychological treatment on working memory in patients with acquired brain injury. <i>Brain Injury</i> , 2020 , 34, 1051-1060	2.1	6
127	Nonlinear interaction decomposition (NID): A method for separation of cross-frequency coupled sources in human brain. <i>NeuroImage</i> , 2020 , 211, 116599	7.9	6
126	Neural correlates of up-regulating positive emotions in fMRI and their link to affect in daily life. <i>Social Cognitive and Affective Neuroscience</i> , 2019 , 14, 1049-1059	4	6

125	Mirror Electromyographic Activity in the Upper and Lower Extremity: A Comparison between Endurance Athletes and Non-Athletes. <i>Frontiers in Human Neuroscience</i> , 2017 , 11, 485	3.3	6
124	Task-irrelevant auditory feedback facilitates motor performance in musicians. <i>Frontiers in Psychology</i> , 2012 , 3, 146	3.4	6
123	Ninety-nine independent genetic loci influencing general cognitive function include genes associated with brain health and structure (N = 280,360)		6
122	Liking and left amygdala activity during food versus nonfood processing are modulated by emotional context. <i>Cognitive, Affective and Behavioral Neuroscience</i> , 2020 , 20, 91-102	3.5	6
121	Heartbeat and somatosensory perception. <i>NeuroImage</i> , 2021 , 238, 118247	7.9	6
120	Cortical blood oxygenation changes in the left and right occipital area induced by selective visual stimuli in humans. <i>Advances in Experimental Medicine and Biology</i> , 1999 , 471, 35-41	3.6	6
119	Serum Neuron-Specific Enolase Is Related to Cerebellar Connectivity: A Resting-State Functional Magnetic Resonance Imaging Pilot Study. <i>Journal of Neurotrauma</i> , 2015 , 32, 1380-4	5.4	5
118	Alexithymia and automatic processing of facial emotions: behavioral and neural findings. <i>BMC Neuroscience</i> , 2020 , 21, 23	3.2	5
117	Global and Regional Development of the Human Cerebral Cortex: Molecular Architecture and Occupational Aptitudes. <i>Cerebral Cortex</i> , 2020 , 30, 4121-4139	5.1	5
116	Anodal Transcranial Direct Current Stimulation Over S1 Differentially Modulates Proprioceptive Accuracy in Young and Old Adults. <i>Frontiers in Aging Neuroscience</i> , 2019 , 11, 264	5.3	5
115	Hysteresis as an implicit prior in tactile spatial decision making. <i>PLoS ONE</i> , 2014 , 9, e89802	3.7	5
114	Structural brain changes in early-onset and late-onset depression: An update of volumetric MRI findings. <i>International Journal of Imaging Systems and Technology</i> , 2014 , 24, 149-160	2.5	5
113	fMRI for the Assessment of Functional Connectivity 2012 ,		5
112	Changes in cytochrome-oxidase oxidation in the occipital cortex during visual simulation: improvement in sensitivity by the determination of the wavelength dependence of the differential pathlength 1998 ,		5
111	Respiration, heartbeat, and conscious tactile perception. <i>Journal of Neuroscience</i> , 2021 ,	6.6	5
110	Reduction of somatosensory functional connectivity by transcranial alternating current stimulation at endogenous mu-frequency. <i>NeuroImage</i> , 2020 , 221, 117175	7.9	5
109	Mirror Visual Feedback-Induced Performance Improvement and the Influence of Hand Dominance. <i>Frontiers in Human Neuroscience</i> , 2015 , 9, 702	3.3	5
108	Neural correlates of conscious tactile perception: An analysis of BOLD activation patterns and graph metrics. <i>NeuroImage</i> , 2021 , 224, 117384	7.9	5

107	Multimodal Assessment of the Motor System in Patients With Chronic Ischemic Stroke. <i>Stroke</i> , 2021 , 52, 241-249	6.7	5
106	Age- and Sex-Specific Standard Scores for the Reading the Mind in the Eyes Test. <i>Frontiers in Aging Neuroscience</i> , 2020 , 12, 607107	5.3	5
105	Social factors and the prevalence of social isolation in a population-based adult cohort. <i>Social Psychiatry and Psychiatric Epidemiology</i> , 2021 , 1	4.5	5
104	Recursive music elucidates neural mechanisms supporting the generation and detection of melodic hierarchies. <i>Brain Structure and Function</i> , 2020 , 225, 1997-2015	4	4
103	Are social conflicts at work associated with depressive symptomatology? Results from the population-based LIFE-Adult-Study. <i>Journal of Occupational Medicine and Toxicology</i> , 2020 , 15, 1	2.7	4
102	Socio-cultural norms of body size in Westerners and Polynesians affect heart rate variability and emotion during social interactions. <i>Culture and Brain</i> , 2019 , 7, 26-56	1.1	4
101	Decreased visual detection during subliminal stimulation. <i>Journal of Vision</i> , 2014 , 14,	0.4	4
100	Subsurface Microscopical visualization of brain tissue in vivo: Present, problems and prospects. <i>Micron</i> , 1993 , 24, 611-622	2.3	4
99	Dopamine release, diffusion and uptake: A computational model for synaptic and volume transmission. <i>PLoS Computational Biology</i> , 2020 , 16, e1008410	5	4
98	The effect of a high-polyphenol Mediterranean diet (GREEN-MED) combined with physical activity on age-related brain atrophy: the DIRECT PLUS randomized controlled trial.. <i>American Journal of Clinical Nutrition</i> , 2022 ,	7	4
97	Gut microbiota link dietary fiber intake and short-chain fatty acid metabolism with eating behavior. <i>Translational Psychiatry</i> , 2021 , 11, 500	8.6	4
96	Neuronal biomarkers of Parkinson's disease are present in healthy aging. <i>NeuroImage</i> , 2021 , 243, 118517.9	7.9	4
95	The Effect of Scan Length on the Assessment of BOLD Delay in Ischemic Stroke. <i>Frontiers in Neurology</i> , 2020 , 11, 381	4.1	3
94	Emotion Regulation in Essential Hypertension: Roles of Anxiety, Stress, and the Pulvinar. <i>Frontiers in Behavioral Neuroscience</i> , 2020 , 14, 80	3.5	3
93	Recursive hierarchical embedding in vision is impaired by posterior middle temporal gyrus lesions. <i>Brain</i> , 2019 , 142, 3217-3229	11.2	3
92	Enhanced response to music in pregnancy. <i>Psychophysiology</i> , 2014 , 51, 905-11	4.1	3
91	Toward noninvasive optical human brain mapping: improvements of the spectral, temporal, and spatial resolution of near-infrared spectroscopy 1997 ,		3
90	Emotional maltreatment and neglect impact neural activation upon exclusion in early and mid-adolescence: An event-related fMRI study.. <i>Development and Psychopathology</i> , 2022 , 1-13	4.3	3

89	Heart failure is independently associated with white matter lesions: insights from the population-based LIFE-Adult Study. <i>ESC Heart Failure</i> , 2021 , 8, 697-704	3.7	3
88	Random Projection for Fast and Efficient Multivariate Correlation Analysis of High-Dimensional Data: A New Approach. <i>Frontiers in Genetics</i> , 2016 , 7, 102	4.5	3
87	Difficulties Choosing Control Points in Acupuncture Research. Response: Commentary: Differential Cerebral Response, Measured with Both an EEG and fMRI, to Somatosensory Stimulation of a Single Acupuncture Point vs. Two Non-Acupuncture Points. <i>Frontiers in Human Neuroscience</i> , 2016 , 10, 404	3.3	3
86	The Band Effect-Physically Strenuous Music Making Increases Esthetic Appreciation of Music. <i>Frontiers in Neuroscience</i> , 2016 , 10, 448	5.1	3
85	Musical meaning modulates word acquisition. <i>Brain and Language</i> , 2019 , 190, 10-15	2.9	3
84	The association between mental demands at the workplace and cognitive functioning: the role of the big five personality traits. <i>Aging and Mental Health</i> , 2020 , 24, 1064-1070	3.5	3
83	Neural excitability and sensory input determine intensity perception with opposing directions in initial cortical responses. <i>ELife</i> , 2021 , 10,	8.9	3
82	A Quantitative Comparison of Clinically Employed Parameters in the Assessment of Acute Cerebral Ischemia Using Dynamic Susceptibility Contrast Magnetic Resonance Imaging. <i>Frontiers in Physiology</i> , 2018 , 9, 1945	4.6	2
81	Inverse relationship between amplitude and latency of physiological mirror activity during repetitive isometric contractions. <i>Neuroscience</i> , 2019 , 406, 300-313	3.9	2
80	Socioeconomic inequalities in cognitive function in midlife and early late-life are partially attributable to modifiable health and lifestyle factors. <i>Alzheimer's and Dementia</i> , 2020 , 16, e045760	1.2	2
79	A flexible workflow for simulating transcranial electric stimulation in healthy and lesioned brains. <i>PLoS ONE</i> , 2020 , 15, e0228119	3.7	2
78	Capgras Delusion in Posterior Cortical Atrophy-A Quantitative Multimodal Imaging Single Case Study. <i>Frontiers in Aging Neuroscience</i> , 2020 , 12, 133	5.3	2
77	Cerebellar Transcranial Direct Current Stimulation Improves Maximum Isometric Force Production during Isometric Barbell Squats. <i>Brain Sciences</i> , 2020 , 10,	3.4	2
76	The path from obesity and hypertension to dementia. <i>Advances in Experimental Medicine and Biology</i> , 2015 , 821, 5	3.6	2
75	Telemedicine with integrated data security in ATM-based networks 1997 ,		2
74	The Blushing Brain: Changes in Brain Colour Indicate the Functional State of the Cerebral Cortex. <i>Medical Laser Application: International Journal for Laser Treatment and Research</i> , 2003 , 18, 206-216		2
73	Noninvasive cerebral blood flow monitoring by a dye bolus method: separation of extra- and intracerebral absorption changes by frequency-domain spectroscopy 2001 ,		2
72	Baseline Shift in Neuronal Oscillations and Its Implications for the Interpretation of Evoked Activity Obtained with EEG/MEG		2

71	Less Animal-Based Food, Better Weight Status: Associations of the Restriction of Animal-Based Product Intake with Body-Mass-Index, Depressive Symptoms and Personality in the General Population. <i>Nutrients</i> , 2020 , 12,	6.7	2
70	Brain response to food odors is not associated with body mass index and obesity-related metabolic health measures. <i>Appetite</i> , 2022 , 168, 105774	4.5	2
69	Principles of Multimodal Functional Imaging and Data Integration 2009 , 3-17		2
68	Behavioural relevance modulates access to spatial working memory in humans. <i>European Journal of Neuroscience</i> , 2001 , 13, 357-363	3.5	2
67	Genetic variants for head size share genes and pathways with cancer		2
66	Depressive Symptomatology in Early Retirees Associated With Reason for Retirement-Results From the Population-Based LIFE-Adult-Study. <i>Frontiers in Psychiatry</i> , 2020 , 11, 565442	5	2
65	Positivity in Younger and in Older Age: Associations With Future Time Perspective and Socioemotional Functioning. <i>Frontiers in Psychology</i> , 2020 , 11, 567133	3.4	2
64	OpenVirtualObjects: An Open Set of Standardized and Validated 3D Household Objects for Virtual Reality-Based Research, Assessment, and Therapy. <i>Frontiers in Virtual Reality</i> , 2020 , 1,	3	2
63	Modulation of premotor cortex response to sequence motor learning during escitalopram intake. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2021 , 41, 1449-1462	7.3	2
62	Higher BMI, but not obesity-related genetic polymorphisms, correlates with lower structural connectivity of the reward network in a population-based study. <i>International Journal of Obesity</i> , 2021 , 45, 491-501	5.5	2
61	Motor Sequences - Separating The Sequence From The Motor. A longitudinal rsfMRI Study		2
60	Face Masks Protect From Infection but May Impair Social Cognition in Older Adults and People With Dementia. <i>Frontiers in Psychology</i> , 2021 , 12, 640548	3.4	2
59	Comparative analysis of machine learning algorithms for multi-syndrome classification of neurodegenerative syndromes.. <i>Alzheimer's Research and Therapy</i> , 2022 , 14, 62	9	2
58	Neuronal activation induced changes in microcirculatory haemoglobin oxygenation: to dip or not to dip. <i>International Congress Series</i> , 2002 , 1235, 137-144		1
57	Continuous spectrum near-infrared spectroscopy approach in functional activation studies in the human adult 1996 , 2926, 58		1
56	One-week escitalopram intake alters the excitation-inhibition balance in the healthy female brain.. <i>Human Brain Mapping</i> , 2022 ,	5.9	1
55	Intrinsic Connectivity Changes Mediate the Beneficial Effect of Cardiovascular Exercise on Sustained Visual Attention. <i>Cerebral Cortex Communications</i> , 2020 , 1, tgaa075	1.9	1
54	A flexible workflow for simulating transcranial electric stimulation in healthy and lesioned brains		1

53	No Changes in Gray Matter Density or Cortical Thickness in Late-Life Minor Depression. <i>Journal of Clinical Psychiatry</i> , 2018 , 79,	4.6	1
52	Estimating the effect of a scanner upgrade on measures of grey matter structure for longitudinal designs. <i>PLoS ONE</i> , 2021 , 16, e0239021	3.7	1
51	Relationship between regional white matter hyperintensities and alpha oscillations in older adults.. <i>Neurobiology of Aging</i> , 2021 , 112, 1-11	5.6	1
50	High resolution atlas of the venous brain vasculature from 7 T quantitative susceptibility maps		1
49	Decoding subjective emotional arousal from eeg during an immersive virtual reality experience. <i>ELife</i> , 2021 , 10,	8.9	1
48	Cerebral Blood Flow, Hemoglobin Oxygenation, and Water Diffusion Changes During Stroke: Fingerprinting with Near-Infrared Spectroscopy and MRI 2001 , 232-240		1
47	Relationship between Regional White Matter Hyperintensities and Alpha Oscillations in Older Adults		1
46	Decoding subjective emotional arousal from EEG during an immersive Virtual Reality experience		1
45	Neural excitability and sensory input determine intensity perception with opposing directions in initial cortical responses		1
44	Planar cell polarity pathway and development of the human visual cortex		1
43	Multiple mechanisms link prestimulus neural oscillations to sensory responses		1
42	The impact of ischemic stroke on connectivity gradients		1
41	Interactions between cardiac activity and conscious somatosensory perception		1
40	Liking and left amygdala activity during food versus non-food processing are modulated by emotional context		1
39	Visual System 2009 , 401-417		1
38	Rapid Quantification of White Matter Disconnection in the Human Brain. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2020 , 2020, 1701-1704	0.9	1
37	Motor Skill Learning-Induced Functional Plasticity in the Primary Somatosensory Cortex: A Comparison Between Young and Older Adults. <i>Frontiers in Aging Neuroscience</i> , 2020 , 12, 596438	5.3	1
36	Intermuscular coherence between homologous muscles during dynamic and static movement periods of bipedal squatting. <i>Journal of Neurophysiology</i> , 2020 , 124, 1045-1055	3.2	1

35	Increasing Divergent Thinking Capabilities With Music-Feedback Exercise. <i>Frontiers in Psychology</i> , 2020 , 11, 578979	3.4	1
34	Respiration, heartbeat, and conscious tactile perception		1
33	Genome-wide association and transcriptome analysis suggests total serum ghrelin to be linked with GFRAL. <i>European Journal of Endocrinology</i> , 2021 , 184, 847-856	6.5	1
32	A novel approach for assessing hypoperfusion in stroke using spatial independent component analysis of resting-state fMRI. <i>Human Brain Mapping</i> , 2021 , 42, 5204-5216	5.9	1
31	Immersive Virtual Reality for the Assessment and Training of Spatial Memory: Feasibility in Individuals with Brain Injury 2019 ,		1
30	Analyzing the link between anxiety and eating behavior as a potential pathway to eating-related health outcomes. <i>Scientific Reports</i> , 2021 , 11, 14717	4.9	1
29	Decreased thalamo-cortico connectivity during an implicit sequence motor learning task and 7days escitalopram intake. <i>Scientific Reports</i> , 2021 , 11, 15060	4.9	1
28	Alterations in rhythmic and non-rhythmic resting-state EEG activity and their link to cognition in older age		1
27	Harmonized-Multinational qEEG Norms (HarMNqEEG).. <i>NeuroImage</i> , 2022 , 119190	7.9	1
26	Harmoni: a Method for Eliminating Spurious Interactions due to the Harmonic Components in Neuronal Data.. <i>NeuroImage</i> , 2022 , 119053	7.9	1
25	Enhanced Go and NoGo Learning in Individuals With Obesity. <i>Frontiers in Behavioral Neuroscience</i> , 2020 , 14, 15	3.5	0
24	Losing track of time through delayed body representations. <i>Frontiers in Psychology</i> , 2015 , 6, 405	3.4	0
23	Priming cardiovascular exercise improves complex motor skill learning by affecting the trajectory of learning-related brain plasticity.. <i>Scientific Reports</i> , 2022 , 12, 1107	4.9	0
22	Reading cognition from the eyes: association of retinal nerve fibre layer thickness with cognitive performance in a population-based study.. <i>Brain Communications</i> , 2021 , 3, fcab258	4.5	0
21	Motor sequences; separating the sequence from the motor. A longitudinal rsfMRI study. <i>Brain Structure and Function</i> , 2021 , 1	4	0
20	Imperceptible Somatosensory Single Pulse and Pulse Train Stimulation Oppositely Modulate Mu Rhythm Activity and Perceptual Performance. <i>Cerebral Cortex</i> , 2020 , 30, 6284-6295	5.1	0
19	White matter microstructural changes in short-term learning of a continuous visuomotor sequence. <i>Brain Structure and Function</i> , 2021 , 226, 1677-1698	4	0
18	A single dose of escitalopram blunts the neural response in the thalamus and caudate during monetary loss. <i>Journal of Psychiatry and Neuroscience</i> , 2021 , 46, E319-E327	4.5	0

17	Dissonance in Music Impairs Spatial Gait Parameters in Patients with Parkinson's Disease. <i>Journal of Parkinson's Disease</i> , 2021 , 11, 363-372	5.3	0
16	Alpha and beta neural oscillations differentially reflect age-related differences in bilateral coordination. <i>Neurobiology of Aging</i> , 2021 , 104, 82-91	5.6	0
15	Do High Mental Demands at Work Protect Cognitive Health in Old Age Hippocampal Volume? Results From a Community Sample. <i>Frontiers in Aging Neuroscience</i> , 2020 , 12, 622321	5.3	0
14	Serum ghrelin is positively associated with physiological anxiety but negatively associated with pathological anxiety in humans: Data from a large community-based study.. <i>Psychoneuroendocrinology</i> , 2022 , 140, 105728	5	0
13	Dopaminergic Modulation of Local Non-oscillatory Activity and Global-Network Properties in Parkinson's Disease: An EEG Study.. <i>Frontiers in Aging Neuroscience</i> , 2022 , 14, 846017	5.3	0
12	[P3039]: IMMUNE CELL POPULATIONS ARE ASSOCIATED WITH HUMAN HIPPOCAMPUS VOLUME 2017 , 13, P988-P989		
11	[P3057]: ASSOCIATION OF HIPPOCAMPAL VOLUMES WITH COGNITIVE TASKS IN A LARGE POPULATION-BASED COHORT 2017 , 13, P1092-P1093		
10	Reply to Padulo et al.: Jymmin, an easy-to-implement musical workout approach. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, E1161	11.5	
9	Berlin School of Mind and Brain. <i>E-Neuroforum</i> , 2007 , 13, 70-71		
8	The Vasculitides 2003 , 461-474		
7	The Physiological Basis of Functional Magnetic Resonance Imaging**Supported by the Deutsche Forschungsgemeinschaft (Vi 97/70, Di 454/40), the Sander-Stiftung (90.023.2), and the Human Frontiers Science Program Organization. 1995 , 499-508		
6	fMRI of the Sensorimotor System. <i>Biological Magnetic Resonance</i> , 2015 , 509-521	0.5	
5	Virtual Cerebellar Lesions Influence Verbal Working Memory a tDCS Study. <i>Biosystems and Biorobotics</i> , 2013 , 529-532	0.2	
4	P3-086: FTO is Not Related to Imaging Parameters of the Hippocampus: A Volumetric and Diffusion Tensor Imaging Study 2016 , 12, P851-P851		
3	O4-08-02: THE MEDIATING EFFECT OF COGNITIVE RESERVE BETWEEN SOCIAL ISOLATION AND COGNITIVE FUNCTION: RESULTS OF THE POPULATION-BASED LIFE-ADULT STUDY 2018 , 14, P1421-P1422		
2	Components of Active Music Interventions in Therapeutic Settings Present and Future Applications. <i>Brain Sciences</i> , 2022 , 12, 622	3.4	
1	The influence of white matter lesions on the electric field in transcranial electric stimulation. <i>NeuroImage: Clinical</i> , 2022 , 35, 103071	5.3	