Karsten Specht

List of Publications by Year in descending order

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47006 62596 7,346 136 47 80 citations h-index g-index papers 144 144 144 9515 docs citations times ranked citing authors all docs

#	Article	IF	CITATIONS
1	Prediction of human errors by maladaptive changes in event-related brain networks. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 6173-6178.	7.1	415
2	Recognition of emotional prosody and verbal components of spoken language: an fMRI study. Cognitive Brain Research, 2000, 9, 227-238.	3.0	412
3	Sex Differences and the Impact of Steroid Hormones on the Developing Human Brain. Cerebral Cortex, 2009, 19, 464-473.	2.9	358
4	Using fMRI to decompose the neural processes underlying the Wisconsin Card Sorting Test. Neurolmage, 2006, 30, 1038-1049.	4.2	327
5	Development of attentional networks: An fMRI study with children and adults. NeuroImage, 2005, 28, 429-439.	4.2	293
6	Assessing the spatiotemporal evolution of neuronal activation with single-trial event-related potentials and functional MRI. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 17798-17803.	7.1	285
7	On the existence of a generalized non-specific task-dependent network. Frontiers in Human Neuroscience, 2015, 9, 430.	2.0	15 3
8	Functional segregation of the temporal lobes into highly differentiated subsystems for auditory perception: an auditory rapid event-related fMRI-task. NeuroImage, 2003, 20, 1944-1954.	4.2	130
9	MR MORPHOMETRY ANALYSIS OF GREY MATTER VOLUME REDUCTION IN SCHIZOPHRENIA: ASSOCIATION WITH HALLUCINATIONS. International Journal of Neuroscience, 2006, 116, 9-23.	1.6	130
10	Neuroanatomical precursors of dyslexia identified from pre-reading through to age 11. Brain, 2014, 137, 3136-3141.	7.6	127
11	Defaultâ€mode network functional connectivity is closely related to metabolic activity. Human Brain Mapping, 2015, 36, 2027-2038.	3.6	121
12	Resting States Are Resting Traits – An fMRI Study of Sex Differences and Menstrual Cycle Effects in Resting State Cognitive Control Networks. PLoS ONE, 2014, 9, e103492.	2.5	118
13	Tapping movements according to regular and irregular visual timing signals investigated with fMRI. NeuroReport, 2000, 11, 1301-1306.	1.2	116
14	Assessment of reliability in functional imaging studies. Journal of Magnetic Resonance Imaging, 2003, 17, 463-471.	3.4	116
15	Structural and functional imaging approaches in attention deficit/hyperactivity disorder: Does the temporal lobe play a key role?. Psychiatry Research - Neuroimaging, 2010, 183, 230-236.	1.8	115
16	Functional Relevance of Interindividual Differences in Temporal Lobe Callosal Pathways: A DTI Tractography Study. Cerebral Cortex, 2009, 19, 1322-1329.	2.9	104
17	A parametric analysis of the `rate effect' in the sensorimotor cortex: a functional magnetic resonance imaging analysis in human subjects. Neuroscience Letters, 1998, 252, 37-40.	2.1	101
18	Unmixing concurrent EEG-fMRI with parallel independent component analysis. International Journal of Psychophysiology, 2008, 67, 222-234.	1.0	100

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19	Identification of attention and cognitive control networks in a parametric auditory fMRI study. Neuropsychologia, 2010, 48, 2075-2081.	1.6	95
20	Effective connectivity analysis demonstrates involvement of premotor cortex during speech perception. Neurolmage, 2011, 54, 2437-2445.	4.2	95
21	Therapy-induced brain reorganization patterns in aphasia. Brain, 2015, 138, 1097-1112.	7.6	94
22	Focused attention in a simple dichotic listening task: an fMRI experiment. Cognitive Brain Research, 2003, 16, 257-266.	3.0	90
23	Severe nigrostriatal degeneration without clinical parkinsonism in patients with polymerase gamma mutations. Brain, 2013, 136, 2393-2404.	7.6	90
24	Effects of methylphenidate on working memory functioning in children with attention deficit/hyperactivity disorder. European Journal of Paediatric Neurology, 2009, 13, 516-523.	1.6	88
25	Processing of sub-syllabic speech units in the posterior temporal lobe: An fMRI study. NeuroImage, 2005, 26, 1059-1067.	4.2	86
26	Realignment parameter-informed artefact correction for simultaneous EEG–fMRI recordings. NeuroImage, 2009, 45, 1144-1150.	4.2	86
27	Human V5/MT+: comparison of functional and cytoarchitectonic data. Anatomy and Embryology, 2005, 210, 485-495.	1.5	82
28	Brain localization of attentional control in different age groups by combining functional and structural MRI. Neurolmage, 2004, 22, 912-919.	4.2	81
29	Resting-state glutamate level in the anterior cingulate predicts blood-oxygen level-dependent response to cognitive control. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 5069-5073.	7.1	81
30	A new verbal reports fMRI dichotic listening paradigm for studies of hemispheric asymmetry. Neurolmage, 2008, 40, 902-911.	4.2	78
31	Reduced grey matter volume in frontal and temporal areas in depression: contributions from voxel-based morphometry study. Acta Neuropsychiatrica, 2019, 31, 252-257.	2.1	73
32	Fractal dimension analysis of MR images reveals grey matter structure irregularities in schizophrenia. Computerized Medical Imaging and Graphics, 2008, 32, 150-158.	5.8	71
33	Evidence of a modality-dependent role of the cerebellum in working memory? An fMRI study comparing verbal and abstract n-back tasks. Neurolmage, 2009, 47, 2073-2082.	4.2	69
34	In Vivo Voxel-Based Morphometry in Multiple System Atrophy of the Cerebellar Type. Archives of Neurology, 2003, 60, 1431.	4.5	66
35	Auditory hallucinations in schizophrenia: the role of cognitive, brain structural and genetic disturbances in the left temporal lobe. Frontiers in Human Neuroscience, 2008, 1, 6.	2.0	65
36	Altered Resting State Effective Connectivity of Anterior Insula in Depression. Frontiers in Psychiatry, 2018, 9, 83.	2.6	65

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37	Reading in dyslexia across literacy development: A longitudinal study of effective connectivity. Neurolmage, 2017, 144, 92-100.	4.2	64
38	Current Challenges in Translational and Clinical fMRI and Future Directions. Frontiers in Psychiatry, 2019, 10, 924.	2.6	64
39	A forced-attention dichotic listening fMRI study on 113 subjects. Brain and Language, 2012, 121, 240-247.	1.6	61
40	Neuronal basis of speech comprehension. Hearing Research, 2014, 307, 121-135.	2.0	59
41	Voxel-based analysis of multiple-system atrophy of cerebellar type: complementary results by combining voxel-based morphometry and voxel-based relaxometry. Neurolmage, 2005, 25, 287-293.	4.2	58
42	Functional reorganisation in patients with right hemisphere stroke after training of alertness: a longitudinal PET and fMRI study in eight cases. Neuropsychologia, 2004, 42, 434-450.	1.6	55
43	Recovery of semantic word processing in global aphasia: a functional MRI study. Cognitive Brain Research, 2004, 18, 322-336.	3.0	55
44	Brain activation on preâ€reading tasks reveals atâ€risk status for dyslexia in 6â€yearâ€old children. Scandinavian Journal of Psychology, 2009, 50, 79-91.	1.5	55
45	Glutamate as a mediating transmitter for auditory hallucinations in schizophrenia: A 1H MRS study. Schizophrenia Research, 2015, 161, 252-260.	2.0	55
46	Congenital prosopagnosia: multistage anatomical and functional deficits in face processing circuitry. Journal of Neurology, 2011, 258, 770-782.	3.6	54
47	Default mode network alterations during language task performance in children with benign epilepsy with centrotemporal spikes (BECTS). Epilepsy and Behavior, 2014, 33, 12-17.	1.7	54
48	Impact of glutamate levels on neuronal response and cognitive abilities in schizophrenia. NeuroImage: Clinical, 2014, 4, 576-584.	2.7	53
49	Attention and cognitive control networks assessed in a dichotic listening fMRI study. Brain and Cognition, 2011, 76, 276-285.	1.8	51
50	Structural and Functional Reorganization of the Corpus Callosum between the Age of 6 and 8 Years. Cerebral Cortex, 2011, 21, 1012-1017.	2.9	51
51	Spatial attention: more than intrinsic alerting?. Experimental Brain Research, 2006, 171, 16-25.	1.5	47
52	Separating the effects of alcohol and expectancy on brain activation: An fMRI working memory study. NeuroImage, 2008, 42, 1587-1596.	4.2	47
53	Mapping of temporal and parietal cortex in progressive nonfluent aphasia and Alzheimer's disease using chemical shift imaging, voxel-based morphometry and positron emission tomography. Psychiatry Research - Neuroimaging, 2005, 140, 115-131.	1.8	43
54	A critical re-examination of sexual dimorphism in the corpus callosum microstructure. NeuroImage, 2011, 56, 874-880.	4.2	42

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55	Disentangling the prefrontal network for rule selection by means of a nonâ€verbal variant of the Wisconsin Card Sorting Test. Human Brain Mapping, 2009, 30, 1734-1743.	3.6	41
56	Detection of differential speechâ€specific processes in the temporal lobe using fMRI and a dynamic "sound morphing―technique. Human Brain Mapping, 2009, 30, 3436-3444.	3.6	40
57	Language lateralization and cognitive control across the menstrual cycle assessed with a dichotic-listening paradigm. Psychoneuroendocrinology, 2012, 37, 1866-1875.	2.7	40
58	Equity theory and fair inequality: A neuroeconomic study. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 15368-15372.	7.1	38
59	Sex-differences in grey–white matter structure in normal-reading and dyslexic adolescents. Neuroscience Letters, 2008, 438, 80-84.	2.1	37
60	A 1H-MR Spectroscopy Study of Changes in Glutamate and Glutamine (Glx) Concentrations in Frontal Spectra after Administration of Memantine. Cerebral Cortex, 2010, 20, 798-803.	2.9	37
61	The neural correlate of colour distances revealed with competing synaesthetic and real colours. Cortex, 2011, 47, 320-331.	2.4	35
62	Attentionâ€deficit/hyperactivity disorder in childhood epilepsy: A neuropsychological and functional imaging study. Epilepsia, 2012, 53, 325-333.	5.1	35
63	Joint independent component analysis of structural and functional images reveals complex patterns of functional reorganisation in stroke aphasia. Neurolmage, 2009, 47, 2057-2063.	4.2	33
64	Cortical thickness and restingâ€state cardiac function across the lifespan: A crossâ€sectional pooled megaâ€analysis. Psychophysiology, 2021, 58, e13688.	2.4	33
65	Recovery of Semantic Word Processing in Transcortical Sensory Aphasia: a Functional Magnetic Resonance Imaging Study. Neurocase, 2002, 8, 376-386.	0.6	32
66	Effects of music production on cortical plasticity within cognitive rehabilitation of patients with mild traumatic brain injury. Brain Injury, 2018, 32, 634-643.	1.2	31
67	Music therapy for children with autism: investigating social behaviour through music. The Lancet Child and Adolescent Health, 2019, 3, 759-761.	5.6	31
68	Hemispheric asymmetries in the processing of temporal acoustic cues in consonant-vowel syllables. Restorative Neurology and Neuroscience, 2007, 25, 227-40.	0.7	31
69	Adults with Attention-Deficit/Hyperactivity Disorder? A Brain Magnetic Resonance Spectroscopy Study. Frontiers in Psychiatry, 2011, 2, 65.	2.6	30
70	Evidence for a dysfunctional retrosplenial cortex in patients with schizophrenia: a functional magnetic resonance imaging study with a semanticâ€"perceptual contrast. Neuroscience Letters, 2004, 369, 4-8.	2.1	29
71	Controlling for individual differences in fMRI brain activation to tones, syllables, and words. Neurolmage, 2006, 30, 554-562.	4.2	29
72	Lexical decision of nonwords and pseudowords in humans: a positron emission tomography study. Neuroscience Letters, 2003, 345, 177-181.	2.1	27

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73	Grey and white matter loss along cerebral midline structures in myotonic dystrophy type 2. Journal of Neurology, 2008, 255, 1904-1909.	3.6	27
74	An fMRI study of phonological and spatial working memory using identical stimuli. Scandinavian Journal of Psychology, 2008, 49, 393-401.	1.5	27
75	"Soundmorphing― A new approach to studying speech perception in humans. Neuroscience Letters, 2005, 384, 60-65.	2.1	24
76	The Effects of Alcohol Intoxication on Neuronal Activation at Different Levels of Cognitive Load. Open Neuroimaging Journal, 2008, 2, 65-72.	0.2	24
77	Callosal tissue loss in multiple system atrophyâ€"A oneâ€year followâ€up study. Movement Disorders, 2010, 25, 2613-2620.	3.9	24
78	Post-adolescent developmental changes in cortical complexity. Behavioral and Brain Functions, 2014, 10, 44.	3.3	24
79	Sex- and sex hormone-related variations in energy-metabolic frontal brain asymmetries: A magnetic resonance spectroscopy study. Neurolmage, 2018, 172, 817-825.	4.2	24
80	Restingâ€state glutamatergic neurotransmission is related to the peak latency of the auditory mismatch negativity (MMN) for duration deviants: An ¹ Hâ€MRSâ€EEG study. Psychophysiology, 2015, 52, 1131-1139.	2.4	22
81	Stimulus expectancy modulates inferior frontal gyrus and premotor cortex activity in auditory perception. Brain and Language, 2012, 121, 65-69.	1.6	21
82	The human amygdala encodes value and space during decision making. Neurolmage, 2014, 101, 712-719.	4.2	21
83	The neural correlates of sex differences in left–right confusion. Neurolmage, 2015, 113, 196-206.	4.2	21
84	The functional and structural asymmetries of the superior temporal sulcus. Scandinavian Journal of Psychology, 2018, 59, 74-82.	1.5	21
85	The effects of the glutamate antagonist memantine on brain activation to an auditory perception task. Human Brain Mapping, 2009, 30, 3616-3624.	3.6	20
86	Cerebral diffusion and perfusion deficits in North Sea divers. Acta Radiologica, 2010, 51, 1050-1058.	1.1	20
87	Increased activation in superior temporal gyri as a function of increment in phonetic features. Brain and Language, 2011, 116, 97-101.	1.6	20
88	Mapping a lateralization gradient within the ventral stream for auditory speech perception. Frontiers in Human Neuroscience, 2013, 7, 629.	2.0	20
89	Dynamic up- and down-regulation of the default (DMN) and extrinsic (EMN) mode networks during alternating task-on and task-off periods. PLoS ONE, 2019, 14, e0218358.	2.5	20
90	Functional-structural reorganisation of the neuronal network for auditory perception in subjects with unilateral hearing loss: Review of neuroimaging studies. Hearing Research, 2016, 332, 73-79.	2.0	19

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91	Neuroplastic Effects in Patients With Traumatic Brain Injury After Music-Supported Therapy. Frontiers in Human Neuroscience, 2019, 13, 177.	2.0	19
92	In vivo voxel-based relaxometry in amyotrophic lateral sclerosis. Journal of Neurology, 2009, 256, 28-34.	3.6	18
93	Cognitive conflict and inhibition in primed dichotic listening. Brain and Cognition, 2009, 71, 20-25.	1.8	18
94	An independent component analysis of fMRI data of grapheme–colour synaesthesia. Journal of Neuropsychology, 2011, 5, 203-213.	1.4	18
95	Functional parcellation of the inferior frontal and midcingulate cortices in a flankerâ€stopâ€change paradigm. Human Brain Mapping, 2013, 34, 1501-1514.	3.6	18
96	Arterial spin labelling shows functional depression of non-lesion tissue in chronic Wernicke's aphasia. Cortex, 2017, 92, 249-260.	2.4	17
97	Evidence for glutamatergic neurotransmission in cognitive control in an auditory attention task. Neuroscience Letters, 2009, 454, 171-175.	2.1	16
98	Listening to Rhythmic Music Reduces Connectivity within the Basal Ganglia and the Reward System. Frontiers in Neuroscience, 2017, 11, 153.	2.8	16
99	Language lateralisation measured across linguistic and national boundaries. Cortex, 2019, 111, 134-147.	2.4	16
100	The effects of background noise on dichotic listening to consonant–vowel syllables. Brain and Language, 2008, 107, 11-15.	1.6	15
101	Time-of-Day Effects in Resting-State Functional Magnetic Resonance Imaging: Changes in Effective Connectivity and Blood Oxygenation Level Dependent Signal. Brain Connectivity, 2022, 12, 515-523.	1.7	15
102	Tracing the ventral stream for auditory speech processing in the temporal lobe by using a combined time series and independent component analysis. Neuroscience Letters, 2008, 442, 180-185.	2.1	14
103	The effects of background noise on dichotic listening to consonant-vowel syllables: An fMRI study. Laterality, 2010, 15, 577-596.	1.0	14
104	Associations between lesion size, lesion location and aphasia in acute stroke. Aphasiology, 2021, 35, 745-763.	2.2	14
105	Processing of conflicting cues in an attention-shift paradigm studied with fMRI. Neuroscience Letters, 2005, 380, 138-142.	2.1	13
106	Synaesthesia: cross activations, high interconnectivity, and a parietal hub. Translational Neuroscience, 2012, 3, 15-21.	1.4	13
107	Increased Parietal and Frontal Activation after Remission from Recurrent Major Depression: A Repeated fMRI Study. Cognitive Therapy and Research, 2007, 31, 147-160.	1.9	12
108	Abnormal phasic activity in saliency network, motor areas, and basal ganglia in Parkinson's disease during rhythm perception. Human Brain Mapping, 2019, 40, 916-927.	3.6	12

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109	The effects of different intensity levels of background noise on dichotic listening to consonantâ€vowel syllables. Scandinavian Journal of Psychology, 2008, 49, 305-310.	1.5	11
110	Compensatory task-specific hypersensitivity in bilateral planum temporale and right superior temporal gyrus during auditory rhythm and omission processing in Parkinson's disease. Scientific Reports, 2019, 9, 12623.	3.3	10
111	Children with dyslexia show cortical hyperactivation in response to increasing literacy processing demands. Frontiers in Psychology, 2014, 5, 1491.	2.1	8
112	An fMRI-study on single-sided deafness: Spectral-temporal properties and side of stimulation modulates hemispheric dominance. NeuroImage: Clinical, 2019, 24, 101969.	2.7	8
113	A multimodal study of the effects of tDCS on dorsolateral prefrontal and temporoâ€parietal areas during dichotic listening. European Journal of Neuroscience, 2021, 53, 449-459.	2.6	8
114	Functional asymmetry and effective connectivity of the auditory system during speech perception is modulated by the place of articulation of the consonant- A 7T fMRI study. Frontiers in Psychology, 2014, 5, 549.	2.1	5
115	Reduced grey- and white matter volumes due to unilateral hearing loss following treatment for vestibular schwannoma. Heliyon, 2020, 6, e05658.	3.2	5
116	Variability in Resting-State Functional Magnetic Resonance Imaging: The Effect of Body Mass, Blood Pressure, Hematocrit, and Glycated Hemoglobin on Hemodynamic and Neuronal Parameters. Brain Connectivity, 2022, 12, 870-882.	1.7	5
117	3D Spatial Analysis of fMRI Data on a Word Perception Task. Lecture Notes in Computer Science, 2004, , 977-984.	1.3	4
118	Cognitive conflict in a syllable identification task causes transient activation of speech perception area. Brain and Cognition, 2012, 78, 200-205.	1.8	4
119	A close link between metabolic activity and functional connectivity in the resting human brain. EJNMMI Physics, 2015, 2, A78.	2.7	4
120	Effects of Facial Symmetry and Gaze Direction on Perception of Social Attributes: A Study in Experimental Art History. Frontiers in Human Neuroscience, 2016, 10, 452.	2.0	4
121	Physical exercise augmented cognitive behaviour therapy for older adults with generalised anxiety disorder (PEXACOG): study protocol for a randomized controlled trial. Trials, 2019, 20, 174.	1.6	4
122	Current Practice and New Developments in the Use of In Vivo Magnetic Resonance Spectroscopy for the Assessment of Key Metabolites Implicated in the Pathophysiology of Schizophrenia. Current Topics in Medicinal Chemistry, 2019, 18, 1908-1924.	2.1	4
123	Functional Reorganization after Training of Alertness in Two Patients with Right-Hemisphere Lesions. Zeitschrift FÃ $\frac{1}{4}$ r Neuropsychologie = Journal of Neuropsychology, 2000, 11, 250-261.	0.6	4
124	Eliciting false auditory perceptions using speech frequencies and semantic priming: a signal detection approach. Cognitive Neuropsychiatry, 2022, 27, 255-272.	1.3	4
125	Protocol for the development of the international population registry for aphasia after stroke (I-PRAISE). Aphasiology, 2022, 36, 534-554.	2.2	3
126	Effective Connectivity Between the Orbitofrontal Cortex and the Precuneus Differentiates Major Psychiatric Disorders: Results from a Transdiagnostic Spectral DCM Study. CNS and Neurological Disorders - Drug Targets, 2023, 22, 180-190.	1.4	3

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127	Combined fMRI Region- and Network-Analysis Reveal New Insights of Top-Down Modulation of Bottom-Up Processes in Auditory Laterality. Frontiers in Behavioral Neuroscience, 2021, 15, 802319.	2.0	3
128	Reply: Cortical differences in preliterate children at familiar risk of dyslexia are similar to those observed in dyslexic readers. Brain, 2015, 138, e379-e379.	7.6	2
129	Subjective judgments of rhythmic complexity in Parkinson's disease: Higher baseline, preserved relative ability, and modulated by tempo. PLoS ONE, 2019, 14, e0221752.	2.5	2
130	Glutamatergic modulation of auditory cortex connectivity with attentional brain networks in unpredictable perceptual environment. Scientific Reports, 2020, 10, 15059.	3.3	2
131	"Mickey Mousing―in the Brain: Motion-Sound Synesthesia and the Subcortical Substrate of Audio-Visual Integration. Frontiers in Human Neuroscience, 2021, 15, 605166.	2.0	2
132	Evaluation of a Simple Clinical Language Paradigm With Respect to Sensory Independency, Functional Asymmetry, and Effective Connectivity. Frontiers in Behavioral Neuroscience, 2022, 16, 806520.	2.0	1
133	Clinical use of real-time fMRI in the surgery. Neurolmage, 2001, 13, 231.	4.2	O
134	Speech perception and its temporal dynamic. NeuroImage, 2001, 13, 609.	4.2	0
135	Suppression, Maintenance, and Surprise: Neuronal Correlates of Predictive Processing Specialization for Musical Rhythm. Frontiers in Neuroscience, 2021, 15, 674050.	2.8	O
136	Associations between stroke severity, aphasia severity, lesion location, and lesion size in acute stroke, and aphasia severity one year post stroke. Aphasiology, 0, , 1-23.	2.2	O