

Hans-Otto Karnath

List of Publications by Year in descending order

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Version: 2024-02-01

116
papers

8,200
citations

53660

45
h-index

51492

86
g-index

121
all docs

121
docs citations

121
times ranked

6293
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Spatial awareness is a function of the temporal not the posterior parietal lobe. <i>Nature</i> , 2001, 411, 950-953. | 13.7 | 799 |
| 2 | Age-specific CT and MRI templates for spatial normalization. <i>NeuroImage</i> , 2012, 61, 957-965. | 2.1 | 569 |
| 3 | The Anatomy of Spatial Neglect based on Voxelwise Statistical Analysis: A Study of 140 Patients. <i>Cerebral Cortex</i> , 2004, 14, 1164-1172. | 1.6 | 513 |
| 4 | Awareness of the Functioning of One's Own Limbs Mediated by the Insular Cortex?. <i>Journal of Neuroscience</i> , 2005, 25, 7134-7138. | 1.7 | 367 |
| 5 | New insights into the functions of the superior temporal cortex. <i>Nature Reviews Neuroscience</i> , 2001, 2, 568-576. | 4.9 | 316 |
| 6 | The anatomy of spatial neglect. <i>Neuropsychologia</i> , 2012, 50, 1010-1017. | 0.7 | 312 |
| 7 | Cortical Control of Visually Guided Reaching: Evidence from Patients with Optic Ataxia. <i>Cerebral Cortex</i> , 2005, 15, 1561-1569. | 1.6 | 290 |
| 8 | Subjective body orientation in neglect and the interactive contribution of neck muscle proprioception and vestibular stimulation. <i>Brain</i> , 1994, 117, 1001-1012. | 3.7 | 280 |
| 9 | The anatomy underlying acute versus chronic spatial neglect: a longitudinal study. <i>Brain</i> , 2011, 134, 903-912. | 3.7 | 228 |
| 10 | A simple measure of neglect severity. <i>Neuropsychologia</i> , 2010, 48, 2758-2763. | 0.7 | 208 |
| 11 | Tight Link Between Our Sense of Limb Ownership and Self-Awareness of Actions. <i>Stroke</i> , 2008, 39, 486-488. | 1.0 | 201 |
| 12 | Right insula for our sense of limb ownership and self-awareness of actions. <i>Brain Structure and Function</i> , 2010, 214, 411-417. | 1.2 | 184 |
| 13 | Spatial neglectâ€”a vestibular disorder?. <i>Brain</i> , 2006, 129, 293-305. | 3.7 | 164 |
| 14 | Understanding and Treating â€œPusher Syndromeâ€•. <i>Physical Therapy</i> , 2003, 83, 1119-1125. | 1.1 | 142 |
| 15 | Incidence of Visual Extinction After Left Versus Right Hemisphere Stroke. <i>Stroke</i> , 2007, 38, 3172-3174. | 1.0 | 134 |
| 16 | Mapping human brain lesions and their functional consequences. <i>NeuroImage</i> , 2018, 165, 180-189. | 2.1 | 129 |
| 17 | The Anatomy of Object Recognitionâ€”Visual Form Agnosia Caused by Medial Occipitotemporal Stroke. <i>Journal of Neuroscience</i> , 2009, 29, 5854-5862. | 1.7 | 122 |
| 18 | Fast semi-automated lesion demarcation in stroke. <i>NeuroImage: Clinical</i> , 2015, 9, 69-74. | 1.4 | 119 |

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|----|---|-----|-----------|
| 19 | Damage to White Matter Fiber Tracts in Acute Spatial Neglect. <i>Cerebral Cortex</i> , 2009, 19, 2331-2337. | 1.6 | 108 |
| 20 | Depictive and metric body size estimation in anorexia nervosa and bulimia nervosa: A systematic review and meta-analysis. <i>Clinical Psychology Review</i> , 2017, 57, 21-31. | 6.0 | 105 |
| 21 | Impact of correction factors in human brain lesion-behavior inference. <i>Human Brain Mapping</i> , 2017, 38, 1692-1701. | 1.9 | 102 |
| 22 | Candidate Biomarkers in Children with Autism Spectrum Disorder: A Review of MRI Studies. <i>Neuroscience Bulletin</i> , 2017, 33, 219-237. | 1.5 | 97 |
| 23 | A hitchhiker's guide to lesion-behaviour mapping. <i>Neuropsychologia</i> , 2018, 115, 5-16. | 0.7 | 97 |
| 24 | Posterior thalamic hemorrhage induces "pusher syndrome". <i>Neurology</i> , 2005, 64, 1014-1019. | 1.5 | 89 |
| 25 | Normalized perfusion MRI to identify common areas of dysfunction: patients with basal ganglia neglect. <i>Brain</i> , 2005, 128, 2462-2469. | 3.7 | 83 |
| 26 | Considering structural connectivity in the triple code model of numerical cognition: differential connectivity for magnitude processing and arithmetic facts. <i>Brain Structure and Function</i> , 2016, 221, 979-995. | 1.2 | 83 |
| 27 | Pusher Syndrome "a frequent but little-known disturbance of body orientation perception. <i>Journal of Neurology</i> , 2007, 254, 415-424. | 1.8 | 78 |
| 28 | Spontaneous eye and head position in patients with spatial neglect. <i>Journal of Neurology</i> , 2005, 252, 1194-1200. | 1.8 | 69 |
| 29 | On the validity of lesion-behaviour mapping methods. <i>Neuropsychologia</i> , 2018, 115, 17-24. | 0.7 | 68 |
| 30 | Pseudoneglect in line bisection judgement is associated with a modulation of right hemispheric spatial attention dominance in right-handers. <i>Neuropsychologia</i> , 2017, 94, 75-83. | 0.7 | 65 |
| 31 | An empirical evaluation of multivariate lesion behaviour mapping using support vector regression. <i>Human Brain Mapping</i> , 2019, 40, 1381-1390. | 1.9 | 65 |
| 32 | Spatial attention systems in spatial neglect. <i>Neuropsychologia</i> , 2015, 75, 61-73. | 0.7 | 62 |
| 33 | Disturbed coordinate transformation in the neural representation of space as the crucial mechanism leading to neglect. <i>Neuropsychological Rehabilitation</i> , 1994, 4, 147-150. | 1.0 | 61 |
| 34 | Personal neglect "A disorder of body representation?. <i>Neuropsychologia</i> , 2011, 49, 898-905. | 0.7 | 61 |
| 35 | Perfusion Imaging in Pusher Syndrome to Investigate the Neural Substrates Involved in Controlling Upright Body Position. <i>PLoS ONE</i> , 2009, 4, e5737. | 1.1 | 60 |
| 36 | The fate of global information in dorsal simultanagnosia. <i>Neurocase</i> , 2000, 6, 295-306. | 0.2 | 58 |

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|----|---|-----|-----------|
| 37 | Time course of "pusher syndrome"™ under visual feedback treatment. <i>Physiotherapy Research International</i> , 2004, 9, 138-143. | 0.7 | 55 |
| 38 | Neglect severity after left and right brain damage. <i>Neuropsychologia</i> , 2012, 50, 1136-1141. | 0.7 | 54 |
| 39 | Processing of auditory spatial cues in human cortex: An fMRI study. <i>Neuropsychologia</i> , 2006, 44, 454-461. | 0.7 | 52 |
| 40 | Kinematics of goal-directed arm movements in neglect: Control of hand in space. <i>Neuropsychologia</i> , 1997, 35, 435-444. | 0.7 | 51 |
| 41 | "Pusher syndrome" following cortical lesions that spare the thalamus. <i>Journal of Neurology</i> , 2006, 253, 455-463. | 1.8 | 51 |
| 42 | Errors on the Trail Making Test Are Associated with Right Hemispheric Frontal Lobe Damage in Stroke Patients. <i>Behavioural Neurology</i> , 2015, 2015, 1-10. | 1.1 | 51 |
| 43 | Cognitive reserve impacts on disability and cognitive deficits in acute stroke. <i>Journal of Neurology</i> , 2019, 266, 2495-2504. | 1.8 | 51 |
| 44 | Task-dependent differences in the exploratory behaviour of patients with spatial neglect. <i>Neuropsychologia</i> , 2002, 40, 1577-1585. | 0.7 | 50 |
| 45 | Vestibular Influence on Human Auditory Space Perception. <i>Journal of Neurophysiology</i> , 2000, 84, 1107-1111. | 0.9 | 49 |
| 46 | Neuroimaging of eye position reveals spatial neglect. <i>Brain</i> , 2010, 133, 909-914. | 3.7 | 47 |
| 47 | Subjective visual vertical (SVV) determined in a representative sample of 15 patients with pusher syndrome. <i>Journal of Neurology</i> , 2006, 253, 1367-1369. | 1.8 | 46 |
| 48 | Sound lateralization during passive whole-body rotation. <i>European Journal of Neuroscience</i> , 2001, 13, 2268-2272. | 1.2 | 45 |
| 49 | The cortical substrate of visual extinction. <i>NeuroReport</i> , 2003, 14, 437-42. | 0.6 | 45 |
| 50 | Understanding and treating "pusher syndrome". <i>Physical Therapy</i> , 2003, 83, 1119-25. | 1.1 | 45 |
| 51 | The next step in modern brain lesion analysis: multivariate pattern analysis. <i>Brain</i> , 2014, 137, 2405-2407. | 3.7 | 44 |
| 52 | Do brain tumours allow valid conclusions on the localisation of human brain functions? "Objections. <i>Cortex</i> , 2011, 47, 1004-1006. | 1.1 | 43 |
| 53 | Neural Correlates of Sound Localization in Complex Acoustic Environments. <i>PLoS ONE</i> , 2013, 8, e64259. | 1.1 | 40 |
| 54 | Diagnostic validity of line bisection in the acute phase of stroke. <i>Neuropsychologia</i> , 2016, 82, 200-204. | 0.7 | 40 |

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|----|--|-----|-----------|
| 55 | Investigating structure and function in the healthy human brain: validity of acute versus chronic lesion-symptom mapping. <i>Brain Structure and Function</i> , 2017, 222, 2059-2070. | 1.2 | 40 |
| 56 | Is space representation distorted in neglect?. <i>Neuropsychologia</i> , 1998, 37, 7-15. | 0.7 | 39 |
| 57 | Male advantage in sound localization at cocktail parties. <i>Cortex</i> , 2011, 47, 741-749. | 1.1 | 38 |
| 58 | Topography of acute stroke in a sample of 439 right brain damaged patients. <i>NeuroImage: Clinical</i> , 2016, 10, 124-128. | 1.4 | 37 |
| 59 | Restricted ocular exploration does not seem to explain simultanagnosia. <i>Neuropsychologia</i> , 2006, 44, 2330-2336. | 0.7 | 33 |
| 60 | Using SPM normalization for lesion analysis in spatial neglect. <i>Brain</i> , 2004, 127, E10-E10. | 3.7 | 32 |
| 61 | Testing the dual-pathway model for auditory processing in human cortex. <i>NeuroImage</i> , 2016, 124, 672-681. | 2.1 | 31 |
| 62 | New aspects for the physiotherapy of pushing behaviour. <i>NeuroRehabilitation</i> , 2005, 20, 133-138. | 0.5 | 29 |
| 63 | Using machine learning-based lesion behavior mapping to identify anatomical networks of cognitive dysfunction: Spatial neglect and attention. <i>NeuroImage</i> , 2019, 201, 116000. | 2.1 | 29 |
| 64 | Impaired perception of temporal order in auditory extinction. <i>Neuropsychologia</i> , 2002, 40, 1977-1982. | 0.7 | 26 |
| 65 | A network underlying human higher-order motor control: Insights from machine learning-based lesion-behaviour mapping in apraxia of pantomime. <i>Cortex</i> , 2019, 121, 308-321. | 1.1 | 26 |
| 66 | Neglect-like behavior in healthy subjects. <i>Experimental Brain Research</i> , 2003, 153, 231-238. | 0.7 | 23 |
| 67 | “Whose atlas I use, his song I sing”™ The impact of anatomical atlases on fiber tract contributions to cognitive deficits after stroke. <i>NeuroImage</i> , 2017, 163, 301-309. | 2.1 | 23 |
| 68 | Object-based Neglect Varies with Egocentric Position. <i>Journal of Cognitive Neuroscience</i> , 2011, 23, 2983-2993. | 1.1 | 22 |
| 69 | Egocentric representations of space co-exist with allocentric representations: Evidence from spatial neglect. <i>Cortex</i> , 2014, 58, 161-169. | 1.1 | 22 |
| 70 | Hippocampal diaschisis contributes to anosognosia for hemiplegia: Evidence from lesion network-symptom-mapping. <i>NeuroImage</i> , 2020, 208, 116485. | 2.1 | 22 |
| 71 | Right-sided brain lesions predominate among patients with lesional mania: evidence from a systematic review and pooled lesion analysis. <i>Translational Psychiatry</i> , 2020, 10, 139. | 2.4 | 21 |
| 72 | Revisiting the cortical system for peripheral reaching at the parieto-occipital junction. <i>Cortex</i> , 2015, 64, 363-379. | 1.1 | 19 |

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|----|---|-----|-----------|
| 73 | Investigating Body Image Disturbance in Anorexia Nervosa Using Novel Biometric Figure Rating Scales: A Pilot Study. <i>European Eating Disorders Review</i> , 2017, 25, 607-612. | 2.3 | 19 |
| 74 | Instructions for the Clinical Scale for Contraversive Pushing (SCP). <i>Neurorehabilitation and Neural Repair</i> , 2007, 21, 370-371. | 1.4 | 18 |
| 75 | A modified Camel and Cactus Test detects presymptomatic semantic impairment in genetic frontotemporal dementia within the GENFI cohort. <i>Applied Neuropsychology Adult</i> , 2022, 29, 112-119. | 0.7 | 18 |
| 76 | Mapping the human praxis network: an investigation of white matter disconnection in limb apraxia of gesture production. <i>Brain Communications</i> , 2022, 4, fcac004. | 1.5 | 18 |
| 77 | Post-stroke cognitive deficits rarely come alone: Handling comorbidity in lesion-behaviour mapping. <i>Human Brain Mapping</i> , 2020, 41, 1387-1399. | 1.9 | 17 |
| 78 | Disconnection somewhere down the line: Multivariate lesion-symptom mapping of the line bisection error. <i>Cortex</i> , 2020, 133, 120-132. | 1.1 | 17 |
| 79 | Neural Correlates of Spatial Attention and Target Detection in a Multi-Target Environment. <i>Cerebral Cortex</i> , 2015, 25, 2321-2331. | 1.6 | 16 |
| 80 | Strategies for feature extraction from structural brain imaging in lesion-deficit modelling. <i>Human Brain Mapping</i> , 2021, 42, 5409-5422. | 1.9 | 15 |
| 81 | Comment on "Movement Intention After Parietal Cortex Stimulation in Humans". <i>Science</i> , 2010, 327, 1200-1200. | 6.0 | 12 |
| 82 | Response to Comment on "Movement Intention After Parietal Cortex Stimulation in Humans". <i>Science</i> , 2010, 327, 1200-1200. | 6.0 | 12 |
| 83 | Science Discussion Topic Strategies of Lesion Localization " Reply to Marshall, Fink, Halligan and Vallar. <i>Cortex</i> , 2002, 38, 258-260. | 1.1 | 10 |
| 84 | Body-relative horizontal-vertical anisotropy in human representations of traveled distances. <i>Experimental Brain Research</i> , 2018, 236, 2811-2827. | 0.7 | 10 |
| 85 | Hemifield coding in ventral object-sensitive areas " Evidence from visual hemianopia. <i>Cortex</i> , 2018, 98, 149-162. | 1.1 | 9 |
| 86 | Lesion-Behavior Mapping in Cognitive Neuroscience: A Practical Guide to Univariate and Multivariate Approaches. <i>NeuroMethods</i> , 2019, , 209-238. | 0.2 | 9 |
| 87 | Bilateral Theta-Burst TMS to Influence Global Gestalt Perception. <i>PLoS ONE</i> , 2012, 7, e47820. | 1.1 | 9 |
| 88 | The Fate of Global Information in Dorsal Simultanagnosia. <i>Neurocase</i> , 2000, 6, 295-306. | 0.2 | 9 |
| 89 | Do patients with neglect show abnormal hand velocity profiles during tactile exploration of peripersonal space?. <i>Experimental Brain Research</i> , 1999, 128, 219-223. | 0.7 | 8 |
| 90 | Do patients with pure alexia suffer from a specific word form processing deficit? Evidence from "words with transposed letters". <i>Neuropsychologia</i> , 2011, 49, 1294-1301. | 0.7 | 8 |

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|-----|--|-----|-----------|
| 91 | Anosognosia for hemiparesis after left-sided stroke. <i>Cortex</i> , 2014, 61, 120-126. | 1.1 | 8 |
| 92 | Reprint of: Mapping human brain lesions and their functional consequences. <i>NeuroImage</i> , 2019, 190, 4-13. | 2.1 | 8 |
| 93 | Changes in the perception of upright body orientation with age. <i>PLoS ONE</i> , 2020, 15, e0233160. | 1.1 | 8 |
| 94 | Disorganized behavior on Link's cube test is sensitive to right hemispheric frontal lobe damage in stroke patients. <i>Frontiers in Human Neuroscience</i> , 2014, 8, 79. | 1.0 | 7 |
| 95 | Apraxia of object-related action does not depend on visual feedback. <i>Cortex</i> , 2018, 99, 103-117. | 1.1 | 7 |
| 96 | Subcortical neglect is not always a transient phenomenon: Evidence from a 1-year follow-up study. <i>Journal of Clinical and Experimental Neuropsychology</i> , 2009, 31, 617-623. | 0.8 | 6 |
| 97 | Early sensory processing in right hemispheric stroke patients with and without extinction. <i>Neuropsychologia</i> , 2015, 73, 141-150. | 0.7 | 6 |
| 98 | Visual perception of one's own body under vestibular stimulation using biometric self-avatars in virtual reality. <i>PLoS ONE</i> , 2019, 14, e0213944. | 1.1 | 6 |
| 99 | Body size perception in stroke patients with paresis. <i>PLoS ONE</i> , 2021, 16, e0252596. | 1.1 | 6 |
| 100 | The anatomy of spatial neglect after posterior cerebral artery stroke. <i>Brain Communications</i> , 2020, 2, fcaa163. | 1.5 | 6 |
| 101 | Perception of horizontal distances in patients with spatial neglect. <i>Experimental Brain Research</i> , 1998, 123, 190-191. | 0.7 | 5 |
| 102 | Stimulus size mediates Gestalt processes in object perception - evidence from simultanagnosia. <i>Neuropsychologia</i> , 2016, 89, 66-73. | 0.7 | 5 |
| 103 | Biased temporal order judgments in chronic neglect influenced by trunk position. <i>Cortex</i> , 2018, 99, 273-280. | 1.1 | 5 |
| 104 | Lying in a 3T MRI scanner induces neglect-like spatial attention bias. <i>ELife</i> , 2021, 10, . | 2.8 | 5 |
| 105 | Auditory Space Perception in the Blind: Horizontal Sound Localization in Acoustically Simple and Complex Situations. <i>Perception</i> , 2019, 48, 1039-1057. | 0.5 | 4 |
| 106 | Inhibition between human brain areas or methodological artefact?. <i>Brain</i> , 2020, 143, e38-e38. | 3.7 | 3 |
| 107 | Temporo-parietal brain regions are involved in higher order object perception. <i>NeuroImage</i> , 2021, 234, 117982. | 2.1 | 3 |
| 108 | Hemifield-specific color perception deficits after unilateral V4± lesions. <i>Cortex</i> , 2021, 142, 357-369. | 1.1 | 3 |

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|-----|--|-----|-----------|
| 109 | Spatial awareness is a function of the temporal not the posterior parietal lobe. , 0, . | | 3 |
| 110 | The cognitive and neural bases of visually guided action. Experimental Brain Research, 2003, 153, 133-133. | 0.7 | 1 |
| 111 | Activities of the Right Temporo-Parieto-Occipital Junction Reflect Spatial Hearing Ability in Cochlear Implant Users. Frontiers in Neuroscience, 2021, 15, 613101. | 1.4 | 1 |
| 112 | Kortikale Kontrolle zielgerichteter Bewegungen. E-Neuroforum, 2004, 10, 200-205. | 0.2 | 0 |
| 113 | Simultanagnosia does not affect processes of auditory Gestalt perception. Neuropsychologia, 2017, 99, 279-285. | 0.7 | 0 |
| 114 | Caloric vestibular stimulation has no effect on perceived body size. Scientific Reports, 2019, 9, 11411. | 1.6 | 0 |
| 115 | Hemispheric Lateralization of Arithmetic Facts and Magnitude Processing for Two-Digit Numbers. Frontiers in Human Neuroscience, 2020, 14, 88. | 1.0 | 0 |
| 116 | The role of ventral stream areas for viewpoint-invariant object recognition. NeuroImage, 2022, 251, 119021. | 2.1 | 0 |