

Christian Grefkes Hermann

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144
papers

14,165
citations

52
h-index

118
g-index

152
ext. papers

16,748
ext. citations

5.9
avg, IF

6.57
L-index

#	Paper	IF	Citations
144	A new SPM toolbox for combining probabilistic cytoarchitectonic maps and functional imaging data. <i>NeuroImage</i> , 2005 , 25, 1325-35	7.9	3115
143	Coordinate-based activation likelihood estimation meta-analysis of neuroimaging data: a random-effects approach based on empirical estimates of spatial uncertainty. <i>Human Brain Mapping</i> , 2009 , 30, 2907-26	5.9	1263
142	The functional organization of the intraparietal sulcus in humans and monkeys. <i>Journal of Anatomy</i> , 2005 , 207, 3-17	2.9	519
141	Cortical connectivity after subcortical stroke assessed with functional magnetic resonance imaging. <i>Annals of Neurology</i> , 2008 , 63, 236-46	9.4	425
140	Evidence-based guidelines on the therapeutic use of repetitive transcranial magnetic stimulation (rTMS): An update (2014-2018). <i>Clinical Neurophysiology</i> , 2020 , 131, 474-528	4.3	411
139	Reorganization of cerebral networks after stroke: new insights from neuroimaging with connectivity approaches. <i>Brain</i> , 2011 , 134, 1264-76	11.2	387
138	Interhemispheric competition after stroke: brain stimulation to enhance recovery of function of the affected hand. <i>Neurorehabilitation and Neural Repair</i> , 2009 , 23, 641-56	4.7	336
137	Human somatosensory area 2: observer-independent cytoarchitectonic mapping, interindividual variability, and population map. <i>NeuroImage</i> , 2001 , 14, 617-31	7.9	308
136	Dynamic intra- and interhemispheric interactions during unilateral and bilateral hand movements assessed with fMRI and DCM. <i>NeuroImage</i> , 2008 , 41, 1382-94	7.9	303
135	Connectivity-based approaches in stroke and recovery of function. <i>Lancet Neurology</i> , 2014 , 13, 206-16	16.1	302
134	Crossmodal processing of object features in human anterior intraparietal cortex: an fMRI study implies equivalencies between humans and monkeys. <i>Neuron</i> , 2002 , 35, 173-84	13.9	287
133	Modulating cortical connectivity in stroke patients by rTMS assessed with fMRI and dynamic causal modeling. <i>NeuroImage</i> , 2010 , 50, 233-42	7.9	256
132	Hierarchical processing of tactile shape in the human brain. <i>Neuron</i> , 2001 , 31, 317-28	13.9	230
131	The role of the contralesional motor cortex for motor recovery in the early days after stroke assessed with longitudinal FMRI. <i>Cerebral Cortex</i> , 2011 , 21, 756-68	5.1	229
130	Activation likelihood estimation meta-analysis of motor-related neural activity after stroke. <i>NeuroImage</i> , 2012 , 59, 2771-82	7.9	219
129	Dynamic causal modeling of cortical activity from the acute to the chronic stage after stroke. <i>NeuroImage</i> , 2011 , 55, 1147-58	7.9	213
128	Differential effects of high-frequency repetitive transcranial magnetic stimulation over ipsilesional primary motor cortex in cortical and subcortical middle cerebral artery stroke. <i>Annals of Neurology</i> , 2009 , 66, 298-309	9.4	205

127	Effects of low-frequency repetitive transcranial magnetic stimulation of the contralesional primary motor cortex on movement kinematics and neural activity in subcortical stroke. <i>Archives of Neurology</i> , 2008 , 65, 741-7		204
126	Human medial intraparietal cortex subserves visuomotor coordinate transformation. <i>NeuroImage</i> , 2004 , 23, 1494-506	7.9	203
125	Cortical reorganization after stroke: how much and how functional?. <i>Neuroscientist</i> , 2014 , 20, 56-70	7.6	190
124	Architectonics of the human cerebral cortex and transmitter receptor fingerprints: reconciling functional neuroanatomy and neurochemistry. <i>European Neuropsychopharmacology</i> , 2002 , 12, 587-99	1.2	185
123	Dominance of the right hemisphere and role of area 2 in human kinesthesia. <i>Journal of Neurophysiology</i> , 2005 , 93, 1020-34	3.2	183
122	The somatotopic organization of cytoarchitectonic areas on the human parietal operculum. <i>Cerebral Cortex</i> , 2007 , 17, 1800-11	5.1	174
121	Performing allocentric visuospatial judgments with induced distortion of the egocentric reference frame: an fMRI study with clinical implications. <i>NeuroImage</i> , 2003 , 20, 1505-17	7.9	171
120	Cerebral network disorders after stroke: evidence from imaging-based connectivity analyses of active and resting brain states in humans. <i>Journal of Physiology</i> , 2013 , 591, 17-31	3.9	154
119	Dose-dependent effects of theta burst rTMS on cortical excitability and resting-state connectivity of the human motor system. <i>Journal of Neuroscience</i> , 2014 , 34, 6849-59	6.6	124
118	Dexterity is impaired at both hands following unilateral subcortical middle cerebral artery stroke. <i>European Journal of Neuroscience</i> , 2007 , 25, 3173-84	3.5	117
117	The role of anterior midcingulate cortex in cognitive motor control: evidence from functional connectivity analyses. <i>Human Brain Mapping</i> , 2014 , 35, 2741-53	5.9	108
116	The "what" and "when" of self-initiated movements. <i>Cerebral Cortex</i> , 2013 , 23, 520-30	5.1	107
115	Functional lateralization of face, hand, and trunk representation in anatomically defined human somatosensory areas. <i>Cerebral Cortex</i> , 2008 , 18, 2820-30	5.1	104
114	Inter-individual variability in cortical excitability and motor network connectivity following multiple blocks of rTMS. <i>NeuroImage</i> , 2015 , 118, 209-18	7.9	96
113	Degeneration of corpus callosum and recovery of motor function after stroke: a multimodal magnetic resonance imaging study. <i>Human Brain Mapping</i> , 2012 , 33, 2941-56	5.9	92
112	Mapping the hand, foot and face representations in the primary motor cortex - retest reliability of neuronavigated TMS versus functional MRI. <i>NeuroImage</i> , 2013 , 66, 531-42	7.9	92
111	Noradrenergic enhancement improves motor network connectivity in stroke patients. <i>Annals of Neurology</i> , 2011 , 69, 375-88	9.4	91
110	Approaches for the integrated analysis of structure, function and connectivity of the human brain. <i>Clinical EEG and Neuroscience</i> , 2011 , 42, 107-21	2.3	90

109	Dopaminergic modulation of motor network dynamics in Parkinson's disease. <i>Brain</i> , 2015 , 138, 664-78	11.2	80
108	Identifying Neuroimaging Markers of Motor Disability in Acute Stroke by Machine Learning Techniques. <i>Cerebral Cortex</i> , 2015 , 25, 3046-56	5.1	79
107	Network connectivity and individual responses to brain stimulation in the human motor system. <i>Cerebral Cortex</i> , 2014 , 24, 1697-707	5.1	79
106	What Makes the Muscle Twitch: Motor System Connectivity and TMS-Induced Activity. <i>Cerebral Cortex</i> , 2015 , 25, 2346-53	5.1	75
105	Handedness and effective connectivity of the motor system. <i>NeuroImage</i> , 2014 , 99, 451-60	7.9	75
104	Effects of rTMS on grip force control following subcortical stroke. <i>Experimental Neurology</i> , 2008 , 211, 407-12	5.7	73
103	Shaping Early Reorganization of Neural Networks Promotes Motor Function after Stroke. <i>Cerebral Cortex</i> , 2016 , 26, 2882-2894	5.1	68
102	Motor cortex excitability and connectivity in chronic stroke: a multimodal model of functional reorganization. <i>Brain Structure and Function</i> , 2015 , 220, 1093-107	4	67
101	Noradrenergic modulation of cortical networks engaged in visuomotor processing. <i>Cerebral Cortex</i> , 2010 , 20, 783-97	5.1	67
100	Subdivisions of human parietal area 5 revealed by quantitative receptor autoradiography: a parietal region between motor, somatosensory, and cingulate cortical areas. <i>NeuroImage</i> , 2005 , 25, 975-92	7.9	67
99	Transmitter receptors reveal segregation of cortical areas in the human superior parietal cortex: relations to visual and somatosensory regions. <i>NeuroImage</i> , 2005 , 28, 362-79	7.9	65
98	Neuronal connectivity in major depressive disorder: a systematic review. <i>Neuropsychiatric Disease and Treatment</i> , 2018 , 14, 2715-2737	3.1	63
97	The right temporoparietal junction in attention and social interaction: A transcranial magnetic stimulation study. <i>Human Brain Mapping</i> , 2016 , 37, 796-807	5.9	62
96	Functional localization in the human brain: Gradient-Echo, Spin-Echo, and arterial spin-labeling fMRI compared with neuronavigated TMS. <i>Human Brain Mapping</i> , 2011 , 32, 341-57	5.9	60
95	Somatotopy and attentional modulation of the human parietal and opercular regions. <i>Journal of Neuroscience</i> , 2004 , 24, 5391-9	6.6	55
94	Improved nTMS- and DTI-derived CST tractography through anatomical ROI seeding on anterior pontine level compared to internal capsule. <i>NeuroImage: Clinical</i> , 2015 , 7, 424-37	5.3	54
93	The Right Dorsal Premotor Mosaic: Organization, Functions, and Connectivity. <i>Cerebral Cortex</i> , 2017 , 27, 2095-2110	5.1	52
92	Effects of timing and movement uncertainty implicate the temporo-parietal junction in the prediction of forthcoming motor actions. <i>NeuroImage</i> , 2009 , 47, 667-77	7.9	51

91	Functional resting-state connectivity of the human motor network: differences between right- and left-handers. <i>NeuroImage</i> , 2015 , 109, 298-306	7.9	49
90	Individual prediction of chronic motor outcome in the acute post-stroke stage: Behavioral parameters versus functional imaging. <i>Human Brain Mapping</i> , 2015 , 36, 4553-65	5.9	48
89	Disruption of motor network connectivity post-stroke and its noninvasive neuromodulation. <i>Current Opinion in Neurology</i> , 2012 , 25, 670-5	7.1	48
88	State-dependent differences between functional and effective connectivity of the human cortical motor system. <i>NeuroImage</i> , 2013 , 67, 237-46	7.9	46
87	The heterogeneity of the left dorsal premotor cortex evidenced by multimodal connectivity-based parcellation and functional characterization. <i>NeuroImage</i> , 2018 , 170, 400-411	7.9	44
86	Convergence of human brain mapping tools: neuronavigated TMS parameters and fMRI activity in the hand motor area. <i>Human Brain Mapping</i> , 2012 , 33, 1107-23	5.9	44
85	Network dynamics engaged in the modulation of motor behavior in healthy subjects. <i>NeuroImage</i> , 2013 , 82, 68-76	7.9	44
84	Recovery from stroke: current concepts and future perspectives. <i>Neurological Research and Practice</i> , 2020 , 2, 17	3.2	40
83	Deficient inhibitory cortical networks in antipsychotic-naïve subjects at risk of developing first-episode psychosis and first-episode schizophrenia patients: a cross-sectional study. <i>Biological Psychiatry</i> , 2012 , 72, 744-51	7.9	39
82	Differential modulation of motor network connectivity during movements of the upper and lower limbs. <i>NeuroImage</i> , 2015 , 119, 44-53	7.9	38
81	Polymorphisms in vascular endothelial growth factor receptor 2 are associated with better response rates to ranibizumab treatment in age-related macular degeneration. <i>Ophthalmology</i> , 2014 , 121, 905-10	7.3	38
80	Noninvasive brain stimulation after stroke: it is time for large randomized controlled trials!. <i>Current Opinion in Neurology</i> , 2016 , 29, 714-720	7.1	37
79	Network connectivity of motor control in the ageing brain. <i>NeuroImage: Clinical</i> , 2018 , 18, 443-455	5.3	36
78	Central adaptation following heterotopic hand replantation probed by fMRI and effective connectivity analysis. <i>Experimental Neurology</i> , 2008 , 212, 132-44	5.7	35
77	Functional MRI vs. navigated TMS to optimize M1 seed volume delineation for DTI tractography. A prospective study in patients with brain tumours adjacent to the corticospinal tract. <i>NeuroImage: Clinical</i> , 2017 , 13, 297-309	5.3	34
76	Age-related decrease of functional connectivity additional to gray matter atrophy in a network for movement initiation. <i>Brain Structure and Function</i> , 2015 , 220, 999-1012	4	34
75	Interindividual differences in motor network connectivity and behavioral response to iTBS in stroke patients. <i>NeuroImage: Clinical</i> , 2017 , 15, 559-571	5.3	33
74	fMRI reveals cognitive and emotional processing in a long-term comatose patient. <i>Experimental Neurology</i> , 2008 , 214, 240-6	5.7	33

73	The effects of 1 Hz rTMS over the hand area of M1 on movement kinematics of the ipsilateral hand. <i>Journal of Neural Transmission</i> , 2008 , 115, 1269-74	4.3	32
72	Movement-related phase locking in the delta-theta frequency band. <i>NeuroImage</i> , 2016 , 139, 439-449	7.9	30
71	Dynamic interactions in the fronto-parietal network during a manual stimulus-response compatibility task. <i>NeuroImage</i> , 2011 , 58, 860-9	7.9	28
70	Regional cerebral blood flow correlations of somatosensory areas 3a, 3b, 1, and 2 in humans during rest: a PET and cytoarchitectural study. <i>Human Brain Mapping</i> , 2003 , 19, 183-96	5.9	28
69	Somatosensory areas engaged during discrimination of steady pressure, spring strength, and kinesthesia. <i>Human Brain Mapping</i> , 2003 , 20, 103-15	5.9	28
68	The intrinsic resting state voice network in Parkinson's disease. <i>Human Brain Mapping</i> , 2015 , 36, 1951-62	5.9	26
67	Acute ischaemic stroke alters the brain's preference for distinct dynamic connectivity states. <i>Brain</i> , 2020 , 143, 1525-1540	11.2	25
66	On the integrity of functional brain networks in schizophrenia, Parkinson's disease, and advanced age: Evidence from connectivity-based single-subject classification. <i>Human Brain Mapping</i> , 2017 , 38, 5845-5858 ²⁴	5.9	24
65	Human brain connectivity: Clinical applications for clinical neurophysiology. <i>Clinical Neurophysiology</i> , 2020 , 131, 1621-1651	4.3	23
64	Time-dependent functional role of the contralesional motor cortex after stroke. <i>NeuroImage: Clinical</i> , 2017 , 16, 165-174	5.3	22
63	Differential effects of dopaminergic medication on basic motor performance and executive functions in Parkinson's disease. <i>Neuropsychologia</i> , 2012 , 50, 2506-14	3.2	22
62	An age-related shift of resting-state functional connectivity of the subthalamic nucleus: a potential mechanism for compensating motor performance decline in older adults. <i>Frontiers in Aging Neuroscience</i> , 2014 , 6, 178	5.3	21
61	Translating working memory into action: behavioral and neural evidence for using motor representations in encoding visuo-spatial sequences. <i>Human Brain Mapping</i> , 2014 , 35, 3465-84	5.9	19
60	Frequency-specific modulation of connectivity in the ipsilateral sensorimotor cortex by different forms of movement initiation. <i>NeuroImage</i> , 2017 , 159, 248-260	7.9	19
59	The role of the anterior intraparietal sulcus in crossmodal processing of object features in humans: an rTMS study. <i>Brain Research</i> , 2008 , 1217, 110-8	3.7	19
58	Internally vs. externally triggered movements in patients with major depression. <i>Behavioural Brain Research</i> , 2012 , 228, 125-32	3.4	17
57	Functional Connectivity Differences of the Subthalamic Nucleus Related to Parkinson's Disease. <i>Human Brain Mapping</i> , 2016 , 37, 1235-53	5.9	17
56	Brain responsivity provides an individual readout for motor recovery after stroke. <i>Brain</i> , 2020 , 143, 1873-1888	11.8	16

55	Network dynamics engaged in the modulation of motor behavior in stroke patients. <i>Human Brain Mapping</i> , 2018 , 39, 1078-1092	5.9	16
54	Bringing proportional recovery into proportion: Bayesian modelling of post-stroke motor impairment. <i>Brain</i> , 2020 , 143, 2189-2206	11.2	15
53	Short- and long-term reliability of language fMRI. <i>NeuroImage</i> , 2018 , 176, 215-225	7.9	15
52	Noradrenergic stimulation and motor performance: differential effects of reboxetine on movement kinematics and visuomotor abilities in healthy human subjects. <i>Neuropsychologia</i> , 2009 , 47, 1302-12	3.2	15
51	Multimodal Imaging in Malignant Brain Tumors: Enhancing the Preoperative Risk Evaluation for Motor Deficits with a Combined Hybrid MRI-PET and Navigated Transcranial Magnetic Stimulation Approach. <i>American Journal of Neuroradiology</i> , 2016 , 37, 266-73	4.4	13
50	Searching for behavior relating to grey matter volume in a-priori defined right dorsal premotor regions: Lessons learned. <i>NeuroImage</i> , 2017 , 157, 144-156	7.9	12
49	Modulation of I-wave generating pathways by theta-burst stimulation: a model of plasticity induction. <i>Journal of Physiology</i> , 2019 , 597, 5963-5971	3.9	12
48	Action and semantic tool knowledge - Effective connectivity in the underlying neural networks. <i>Human Brain Mapping</i> , 2018 , 39, 3473-3486	5.9	12
47	Training for Micrographia Alters Neural Connectivity in Parkinson's Disease. <i>Frontiers in Neuroscience</i> , 2018 , 12, 3	5.1	10
46	Age-related changes in oscillatory power affect motor action. <i>PLoS ONE</i> , 2017 , 12, e0187911	3.7	10
45	Abnormal dynamic functional connectivity is linked to recovery after acute ischemic stroke. <i>Human Brain Mapping</i> , 2021 , 42, 2278-2291	5.9	10
44	Shifted neuronal balance during stimulus-response integration in schizophrenia: an fMRI study. <i>Brain Structure and Function</i> , 2015 , 220, 249-61	4	9
43	The differential roles of contralesional frontoparietal areas in cortical reorganization after stroke. <i>Brain Stimulation</i> , 2020 , 13, 614-624	5.1	8
42	Differential Functional Connectivity Alterations of Two Subdivisions within the Right dlPFC in Parkinson's Disease. <i>Frontiers in Human Neuroscience</i> , 2017 , 11, 288	3.3	8
41	Functional Connectivity Changes of Key Regions for Motor Initiation in Parkinson's Disease. <i>Cerebral Cortex</i> , 2019 , 29, 383-396	5.1	8
40	Finding maximally disconnected subnetworks with shortest path tractography. <i>NeuroImage: Clinical</i> , 2019 , 23, 101903	5.3	7
39	Invasive versus non-invasive mapping of the motor cortex. <i>Human Brain Mapping</i> , 2020 , 41, 3970-3983	5.9	7
38	Being on Target: Visual Information during Writing Affects Effective Connectivity in Parkinson's Disease. <i>Neuroscience</i> , 2018 , 371, 484-494	3.9	7

37	Age affects the contribution of ipsilateral brain regions to movement kinematics. <i>Human Brain Mapping</i> , 2020 , 41, 640-655	5.9	7
36	The role of dopamine in dynamic effort-reward integration. <i>Neuropsychopharmacology</i> , 2020 , 45, 1448-1453	5.3	7
35	Translating Functional Connectivity After Stroke: Functional Magnetic Resonance Imaging Detects Comparable Network Changes in Mice and Humans. <i>Stroke</i> , 2021 , 52, 2948-2960	6.7	7
34	Multi-Modal Imaging of Neural Correlates of Motor Speed Performance in the Trail Making Test. <i>Frontiers in Neurology</i> , 2015 , 6, 219	4.1	6
33	Funktionelle Bildgebung und Neuromodulation: Effekte der transkraniellen Magnetstimulation auf kortikale Netzwerke bei Gesunden und Patienten. <i>Klinische Neurophysiologie</i> , 2009 , 40, 239-247	0.2	6
32	Intermittent theta burst stimulation applied during early rehabilitation after stroke: study protocol for a randomised controlled trial. <i>BMJ Open</i> , 2019 , 9, e034088	3	6
31	Precision medicine in stroke: towards personalized outcome predictions using artificial intelligence.. <i>Brain</i> , 2021 ,	11.2	6
30	Bringing Proportional Recovery into Proportion: Bayesian Hierarchical Modelling of Post-Stroke Motor Performance		5
29	Connectivity-Related Roles of Contralesional Brain Regions for Motor Performance Early after Stroke. <i>Cerebral Cortex</i> , 2021 , 31, 993-1007	5.1	5
28	Aging-associated changes of movement-related functional connectivity in the human brain. <i>Neuropsychologia</i> , 2018 , 117, 520-529	3.2	4
27	Sensory-guided motor tasks benefit from mental training based on serial prediction. <i>Neuropsychologia</i> , 2014 , 54, 18-27	3.2	4
26	Early motor network connectivity after stroke: An interplay of general reorganization and state-specific compensation. <i>Human Brain Mapping</i> , 2021 , 42, 5230-5243	5.9	4
25	Recovery after stroke: the severely impaired are a distinct group.. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2021 ,	5.5	4
24	New hope for ameliorating stroke-induced deficits?. <i>Brain</i> , 2016 , 139, 1002-4	11.2	3
23	Basic Principles of rTMS in Motor Recovery After Stroke 2016 , 23-37		3
22	Konnektivität 2013 , 457-469		3
21	Inflated Estimates of Proportional Recovery From Stroke: The Dangers of Mathematical Coupling and Compression to Ceiling. <i>Stroke</i> , 2021 , 52, 1915-1920	6.7	3
20	A response-locking protocol to boost sensitivity for fMRI-based neurochronometry. <i>Human Brain Mapping</i> , 2020 , 41, 3420-3438	5.9	2

19	Freely chosen and instructed actions are terminated by different neural mechanisms revealed by kinematics-informed EEG. <i>NeuroImage</i> , 2019 , 188, 26-42	7.9	2
18	Cortical reorganization after motor stroke: A pilot study on differences between the upper and lower limbs. <i>Human Brain Mapping</i> , 2021 , 42, 1013-1033	5.9	2
17	Dynamic connectivity predicts acute motor impairment and recovery post-stroke. <i>Brain Communications</i> , 2021 , 3, fcab227	4.5	2
16	Development and Validation of Prediction Models for Severe Complications After Acute Ischemic Stroke: A Study Based on the Stroke Registry of Northwestern Germany.. <i>Journal of the American Heart Association</i> , 2022 , e023175	6	2
15	Cortical Inhibition of Face and Jaw Muscle Activity and Discomfort Induced by Repetitive and Paired-Pulse TMS During an Overt Object Naming Task. <i>Brain Topography</i> , 2019 , 32, 418-434	4.3	1
14	Functional reorganization and neuromodulation425-437		1
13	Dynamic functional connectivity analysis reveals transiently increased segregation in patients with severe stroke		1
12	Modeling Connectivity in Health and Disease: Examples from the Motor System 2013 , 213-226		1
11	Acute ischemic stroke alters the brain's preference for distinct dynamic connectivity states		1
10	Dynamic connectivity predicts acute motor impairment and recovery post-stroke		1
9	Improving the efficacy and reliability of rTMS language mapping by increasing the stimulation frequency. <i>Human Brain Mapping</i> , 2021 , 42, 5309-5321	5.9	1
8	Funktionserholung nach Schlaganfall und die therapeutische Rolle der nicht-invasiven Hirnstimulation. <i>Klinische Neurophysiologie</i> , 2020 , 51, 214-223	0.2	0
7	The Cologne Picture Naming Test for Language Mapping and Monitoring (CoNaT): An Open Set of 100 Black and White Object Drawings. <i>Frontiers in Neurology</i> , 2021 , 12, 633068	4.1	0
6	Effekt des Sprachtrainings wird verbessert. <i>InFo Neurologie & Psychiatrie</i> , 2019 , 21, 15-15	0	
5	Neurophysiologische und bildgebende Prädiktoren der Funktionserholung nach Schlaganfall. <i>Klinische Neurophysiologie</i> , 2013 , 44, 238-246	0.2	
4	Netzwerkstörungen nach Schlaganfall: Neue Erkenntnisse aus der funktionellen Magnetresonanztomografie. <i>Klinische Neurophysiologie</i> , 2011 , 42, 177-182	0.2	
3	Modeling Connectivity in Health and Disease: Examples from the Motor System 2020 , 321-334		
2	Funktionserholung nach Schlaganfall 2013 , 633-646		

1 Somatosensorisches System **2013**, 375-392