Christian Grefkes Hermann

List of Publications by Year in Descending Order

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	Development and Validation of Prediction Models for Severe Complications After Acute Ischemic Stroke: A Study Based on the Stroke Registry of Northwestern Germany.. *Journal of the American Heart Association*, **2022**, e023175	6	2
143	Abnormal dynamic functional connectivity is linked to recovery after acute ischemic stroke. *Human Brain Mapping*, **2021**, 42, 2278-2291	5.9	10
142	The Cologne Picture Naming Test for Language Mapping and Monitoring (CoNaT): An Open Set of 100 Black and White Object Drawings. *Frontiers in Neurology*, **2021**, 12, 633068	4.1	0
141	Inflated Estimates of Proportional Recovery From Stroke: The Dangers of Mathematical Coupling and Compression to Ceiling. *Stroke*, **2021**, 52, 1915-1920	6.7	3
140	Connectivity-Related Roles of Contralesional Brain Regions for Motor Performance Early after Stroke. *Cerebral Cortex*, **2021**, 31, 993-1007	5.1	5
139	Cortical reorganization after motor stroke: A pilot study on differences between the upper and lower limbs. *Human Brain Mapping*, **2021**, 42, 1013-1033	5.9	2
138	Improving the efficacy and reliability of rTMS language mapping by increasing the stimulation frequency. *Human Brain Mapping*, **2021**, 42, 5309-5321	5.9	1
137	Early motor network connectivity after stroke: An interplay of general reorganization and state-specific compensation. *Human Brain Mapping*, **2021**, 42, 5230-5243	5.9	4
136	Dynamic connectivity predicts acute motor impairment and recovery post-stroke. *Brain Communications*, **2021**, 3, fcab227	4.5	2
135	Translating Functional Connectivity After Stroke: Functional Magnetic Resonance Imaging Detects Comparable Network Changes in Mice and Humans. *Stroke*, **2021**, 52, 2948-2960	6.7	7
134	Precision medicine in stroke: towards personalized outcome predictions using artificial intelligence.. *Brain*, **2021**,	11.2	6
133	Recovery after stroke: the severely impaired are a distinct group.. *Journal of Neurology, Neurosurgery and Psychiatry*, **2021**,	5.5	4
132	Acute ischaemic stroke alters the brain's preference for distinct dynamic connectivity states. *Brain*, **2020**, 143, 1525-1540	11.2	25
131	Brain responsivity provides an individual readout for motor recovery after stroke. *Brain*, **2020**, 143, 1873-1888	11.2	16
130	Recovery from stroke: current concepts and future perspectives. *Neurological Research and Practice* , **2020**, 2, 17	3.2	40
129	Invasive versus non-invasive mapping of the motor cortex. *Human Brain Mapping*, **2020**, 41, 3970-3983	5.9	7
128	Bringing proportional recovery into proportion: Bayesian modelling of post-stroke motor impairment. *Brain*, **2020**, 143, 2189-2206	11.2	15

127	The differential roles of contralesional frontoparietal areas in cortical reorganization after stroke. *Brain Stimulation*, **2020**, 13, 614-624	5.1	8
126	Human brain connectivity: Clinical applications for clinical neurophysiology. *Clinical Neurophysiology* , **2020**, 131, 1621-1651	4.3	23
125	Modeling Connectivity in Health and Disease: Examples from the Motor System **2020**, 321-334		
124	Funktionserholung nach Schlaganfall und die therapeutische Rolle der nicht-invasiven Hirnstimulation. *Klinische Neurophysiologie*, **2020**, 51, 214-223	0.2	0
123	Evidence-based guidelines on the therapeutic use of repetitive transcranial magnetic stimulation (rTMS): An update (2014-2018). *Clinical Neurophysiology*, **2020**, 131, 474-528	4.3	411
122	A response-locking protocol to boost sensitivity for fMRI-based neurochronometry. *Human Brain Mapping*, **2020**, 41, 3420-3438	5.9	2
121	Age affects the contribution of ipsilateral brain regions to movement kinematics. *Human Brain Mapping*, **2020**, 41, 640-655	5.9	7
120	The role of dopamine in dynamic effort-reward integration. *Neuropsychopharmacology*, **2020**, 45, 1448-1453	8.7	7
119	Modulation of I-wave generating pathways by theta-burst stimulation: a model of plasticity induction. *Journal of Physiology*, **2019**, 597, 5963-5971	3.9	12
118	Finding maximally disconnected subnetworks with shortest path tractography. *NeuroImage: Clinical* , **2019**, 23, 101903	5.3	7
117	Cortical Inhibition of Face and Jaw Muscle Activity and Discomfort Induced by Repetitive and Paired-Pulse TMS During an Overt Object Naming Task. *Brain Topography*, **2019**, 32, 418-434	4.3	1
116	Effekt des Sprachtrainings wird verbessert. *InFo Neurologie & Psychiatrie*, **2019**, 21, 15-15	0	
115	Intermittent theta burst stimulation applied during early rehabilitation after stroke: study protocol for a randomised controlled trial. *BMJ Open*, **2019**, 9, e034088	3	6
114	Functional Connectivity Changes of Key Regions for Motor Initiation in Parkinson's Disease. *Cerebral Cortex*, **2019**, 29, 383-396	5.1	8
113	Freely chosen and instructed actions are terminated by different neural mechanisms revealed by kinematics-informed EEG. *NeuroImage*, **2019**, 188, 26-42	7.9	2
112	Network connectivity of motor control in the ageing brain. *NeuroImage: Clinical*, **2018**, 18, 443-455	5.3	36
111	Being on Target: Visual Information during Writing Affects Effective Connectivity in Parkinson's Disease. *Neuroscience*, **2018**, 371, 484-494	3.9	7
110	Short- and long-term reliability of language fMRI. *NeuroImage*, **2018**, 176, 215-225	7.9	15

109	Action and semantic tool knowledge - Effective connectivity in the underlying neural networks. *Human Brain Mapping*, **2018**, 39, 3473-3486	5.9	12
108	The heterogeneity of the left dorsal premotor cortex evidenced by multimodal connectivity-based parcellation and functional characterization. *NeuroImage*, **2018**, 170, 400-411	7.9	44
107	Training for Micrographia Alters Neural Connectivity in Parkinson's Disease. *Frontiers in Neuroscience*, **2018**, 12, 3	5.1	10
106	Aging-associated changes of movement-related functional connectivity in the human brain. *Neuropsychologia*, **2018**, 117, 520-529	3.2	4
105	Network dynamics engaged in the modulation of motor behavior in stroke patients. *Human Brain Mapping*, **2018**, 39, 1078-1092	5.9	16
104	Neuronal connectivity in major depressive disorder: a systematic review. *Neuropsychiatric Disease and Treatment*, **2018**, 14, 2715-2737	3.1	63
103	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. *NeuroImage: Clinical*, **2017**, 13, 297-309	5.3	34
102	Searching for behavior relating to grey matter volume in a-priori defined right dorsal premotor regions: Lessons learned. *NeuroImage*, **2017**, 157, 144-156	7.9	12
101	The Right Dorsal Premotor Mosaic: Organization, Functions, and Connectivity. *Cerebral Cortex*, **2017**, 27, 2095-2110	5.1	52
100	On the integrity of functional brain networks in schizophrenia, Parkinson's disease, and advanced age: Evidence from connectivity-based single-subject classification. *Human Brain Mapping*, **2017**, 38, 5845-5858	5.9	24
99	Frequency-specific modulation of connectivity in the ipsilateral sensorimotor cortex by different forms of movement initiation. *NeuroImage*, **2017**, 159, 248-260	7.9	19
98	Time-dependent functional role of the contralesional motor cortex after stroke. *NeuroImage: Clinical*, **2017**, 16, 165-174	5.3	22
97	Interindividual differences in motor network connectivity and behavioral response to iTBS in stroke patients. *NeuroImage: Clinical*, **2017**, 15, 559-571	5.3	33
96	Differential Functional Connectivity Alterations of Two Subdivisions within the Right dlPFC in Parkinson's Disease. *Frontiers in Human Neuroscience*, **2017**, 11, 288	3.3	8
95	Age-related changes in oscillatory power affect motor action. *PLoS ONE*, **2017**, 12, e0187911	3.7	10
94	The right temporoparietal junction in attention and social interaction: A transcranial magnetic stimulation study. *Human Brain Mapping*, **2016**, 37, 796-807	5.9	62
93	Shaping Early Reorganization of Neural Networks Promotes Motor Function after Stroke. *Cerebral Cortex*, **2016**, 26, 2882-2894	5.1	68
92	New hope for ameliorating stroke-induced deficits?. *Brain*, **2016**, 139, 1002-4	11.2	3

91	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. *American Journal of Neuroradiology*, **2016**, 37, 266-73	4.4	13
90	Basic Principles of rTMS in Motor Recovery After Stroke **2016**, 23-37		3
89	Movement-related phase locking in the delta-theta frequency band. *NeuroImage*, **2016**, 139, 439-449	7.9	30
88	Functional Connectivity Differences of the Subthalamic Nucleus Related to Parkinson's Disease. *Human Brain Mapping*, **2016**, 37, 1235-53	5.9	17
87	Noninvasive brain stimulation after stroke: it is time for large randomized controlled trials!. *Current Opinion in Neurology*, **2016**, 29, 714-720	7.1	37
86	Functional resting-state connectivity of the human motor network: differences between right- and left-handers. *NeuroImage*, **2015**, 109, 298-306	7.9	49
85	Differential modulation of motor network connectivity during movements of the upper and lower limbs. *NeuroImage*, **2015**, 119, 44-53	7.9	38
84	Inter-individual variability in cortical excitability and motor network connectivity following multiple blocks of rTMS. *NeuroImage*, **2015**, 118, 209-18	7.9	96
83	Identifying Neuroimaging Markers of Motor Disability in Acute Stroke by Machine Learning Techniques. *Cerebral Cortex*, **2015**, 25, 3046-56	5.1	79
82	What Makes the Muscle Twitch: Motor System Connectivity and TMS-Induced Activity. *Cerebral Cortex*, **2015**, 25, 2346-53	5.1	75
81	Shifted neuronal balance during stimulus-response integration in schizophrenia: an fMRI study. *Brain Structure and Function*, **2015**, 220, 249-61	4	9
80	Motor cortex excitability and connectivity in chronic stroke: a multimodal model of functional reorganization. *Brain Structure and Function*, **2015**, 220, 1093-107	4	67
79	Age-related decrease of functional connectivity additional to gray matter atrophy in a network for movement initiation. *Brain Structure and Function*, **2015**, 220, 999-1012	4	34
78	Individual prediction of chronic motor outcome in the acute post-stroke stage: Behavioral parameters versus functional imaging. *Human Brain Mapping*, **2015**, 36, 4553-65	5.9	48
77	Multi-Modal Imaging of Neural Correlates of Motor Speed Performance in the Trail Making Test. *Frontiers in Neurology*, **2015**, 6, 219	4.1	6
76	The intrinsic resting state voice network in Parkinson's disease. *Human Brain Mapping*, **2015**, 36, 1951-62	5.9	26
75	Improved nTMS- and DTI-derived CST tractography through anatomical ROI seeding on anterior pontine level compared to internal capsule. *NeuroImage: Clinical*, **2015**, 7, 424-37	5.3	54
74	Dopaminergic modulation of motor network dynamics in Parkinson's disease. *Brain*, **2015**, 138, 664-78	11.2	80

73	Connectivity-based approaches in stroke and recovery of function. *Lancet Neurology, The*, **2014**, 13, 206-16	24.1	302
72	Translating working memory into action: behavioral and neural evidence for using motor representations in encoding visuo-spatial sequences. *Human Brain Mapping*, **2014**, 35, 3465-84	5.9	19
71	Polymorphisms in vascular endothelial growth factor receptor 2 are associated with better response rates to ranibizumab treatment in age-related macular degeneration. *Ophthalmology*, **2014**, 121, 905-10	7.3	38
70	Handedness and effective connectivity of the motor system. *NeuroImage*, **2014**, 99, 451-60	7.9	75
69	An age-related shift of resting-state functional connectivity of the subthalamic nucleus: a potential mechanism for compensating motor performance decline in older adults. *Frontiers in Aging Neuroscience*, **2014**, 6, 178	5.3	21
68	Dose-dependent effects of theta burst rTMS on cortical excitability and resting-state connectivity of the human motor system. *Journal of Neuroscience*, **2014**, 34, 6849-59	6.6	124
67	Cortical reorganization after stroke: how much and how functional?. *Neuroscientist*, **2014**, 20, 56-70	7.6	190
66	The role of anterior midcingulate cortex in cognitive motor control: evidence from functional connectivity analyses. *Human Brain Mapping*, **2014**, 35, 2741-53	5.9	108
65	Network connectivity and individual responses to brain stimulation in the human motor system. *Cerebral Cortex*, **2014**, 24, 1697-707	5.1	79
64	Sensory-guided motor tasks benefit from mental training based on serial prediction. *Neuropsychologia*, **2014**, 54, 18-27	3.2	4
63	Cerebral network disorders after stroke: evidence from imaging-based connectivity analyses of active and resting brain states in humans. *Journal of Physiology*, **2013**, 591, 17-31	3.9	154
62	State-dependent differences between functional and effective connectivity of the human cortical motor system. *NeuroImage*, **2013**, 67, 237-46	7.9	46
61	Network dynamics engaged in the modulation of motor behavior in healthy subjects. *NeuroImage*, **2013**, 82, 68-76	7.9	44
60	Mapping the hand, foot and face representations in the primary motor cortex - retest reliability of neuronavigated TMS versus functional MRI. *NeuroImage*, **2013**, 66, 531-42	7.9	92
59	Neurophysiologische und bildgebende Pr□diktoren der Funktionserholung nach Schlaganfall. *Klinische Neurophysiologie*, **2013**, 44, 238-246	0.2	
58	The "what" and "when" of self-initiated movements. *Cerebral Cortex*, **2013**, 23, 520-30	5.1	107
57	Konnektivit□ **2013**, 457-469		3
56	Modeling Connectivity in Health and Disease: Examples from the Motor System **2013**, 213-226		1

55	Funktionserholung nach Schlaganfall **2013**, 633-646		
54	Somatosensorisches System **2013**, 375-392		
53	Differential effects of dopaminergic medication on basic motor performance and executive functions in Parkinson's disease. *Neuropsychologia*, **2012**, 50, 2506-14	3.2	22
52	Internally vs. externally triggered movements in patients with major depression. *Behavioural Brain Research*, **2012**, 228, 125-32	3.4	17
51	Deficient inhibitory cortical networks in antipsychotic-naive subjects at risk of developing first-episode psychosis and first-episode schizophrenia patients: a cross-sectional study. *Biological Psychiatry*, **2012**, 72, 744-51	7.9	39
50	Activation likelihood estimation meta-analysis of motor-related neural activity after stroke. *NeuroImage*, **2012**, 59, 2771-82	7.9	219
49	Convergence of human brain mapping tools: neuronavigated TMS parameters and fMRI activity in the hand motor area. *Human Brain Mapping*, **2012**, 33, 1107-23	5.9	44
48	Degeneration of corpus callosum and recovery of motor function after stroke: a multimodal magnetic resonance imaging study. *Human Brain Mapping*, **2012**, 33, 2941-56	5.9	92
47	Disruption of motor network connectivity post-stroke and its noninvasive neuromodulation. *Current Opinion in Neurology*, **2012**, 25, 670-5	7.1	48
46	Dynamic causal modeling of cortical activity from the acute to the chronic stage after stroke. *NeuroImage*, **2011**, 55, 1147-58	7.9	213
45	Dynamic interactions in the fronto-parietal network during a manual stimulus-response compatibility task. *NeuroImage*, **2011**, 58, 860-9	7.9	28
44	The role of the contralesional motor cortex for motor recovery in the early days after stroke assessed with longitudinal FMRI. *Cerebral Cortex*, **2011**, 21, 756-68	5.1	229
43	Approaches for the integrated analysis of structure, function and connectivity of the human brain. *Clinical EEG and Neuroscience*, **2011**, 42, 107-21	2.3	90
42	Noradrenergic enhancement improves motor network connectivity in stroke patients. *Annals of Neurology*, **2011**, 69, 375-88	9.4	91
41	Functional localization in the human brain: Gradient-Echo, Spin-Echo, and arterial spin-labeling fMRI compared with neuronavigated TMS. *Human Brain Mapping*, **2011**, 32, 341-57	5.9	60
40	Netzwerkstörungen nach Schlaganfall: Neue Erkenntnisse aus der funktionellen Magnetresonanztomografie. *Klinische Neurophysiologie*, **2011**, 42, 177-182	0.2	
39	Reorganization of cerebral networks after stroke: new insights from neuroimaging with connectivity approaches. *Brain*, **2011**, 134, 1264-76	11.2	387
38	Noradrenergic modulation of cortical networks engaged in visuomotor processing. *Cerebral Cortex*, **2010**, 20, 783-97	5.1	67

37	Modulating cortical connectivity in stroke patients by rTMS assessed with fMRI and dynamic causal modeling. *NeuroImage*, **2010**, 50, 233-42	7.9	256
36	Funktionelle Bildgebung und Neuromodulation: Effekte der transkraniellen Magnetstimulation auf kortikale Netzwerke bei Gesunden und Patienten. *Klinische Neurophysiologie*, **2009**, 40, 239-247	0.2	6
35	Noradrenergic stimulation and motor performance: differential effects of reboxetine on movement kinematics and visuomotor abilities in healthy human subjects. *Neuropsychologia*, **2009**, 47, 1302-12	3.2	15
34	Differential effects of high-frequency repetitive transcranial magnetic stimulation over ipsilesional primary motor cortex in cortical and subcortical middle cerebral artery stroke. *Annals of Neurology*, **2009**, 66, 298-309	9.4	205
33	Coordinate-based activation likelihood estimation meta-analysis of neuroimaging data: a random-effects approach based on empirical estimates of spatial uncertainty. *Human Brain Mapping*, **2009**, 30, 2907-26	5.9	1263
32	Interhemispheric competition after stroke: brain stimulation to enhance recovery of function of the affected hand. *Neurorehabilitation and Neural Repair*, **2009**, 23, 641-56	4.7	336
31	Effects of timing and movement uncertainty implicate the temporo-parietal junction in the prediction of forthcoming motor actions. *NeuroImage*, **2009**, 47, 667-77	7.9	51
30	The role of the anterior intraparietal sulcus in crossmodal processing of object features in humans: an rTMS study. *Brain Research*, **2008**, 1217, 110-8	3.7	19
29	Effects of rTMS on grip force control following subcortical stroke. *Experimental Neurology*, **2008**, 211, 407-12	5.7	73
28	Central adaptation following heterotopic hand replantation probed by fMRI and effective connectivity analysis. *Experimental Neurology*, **2008**, 212, 132-44	5.7	35
27	fMRI reveals cognitive and emotional processing in a long-term comatose patient. *Experimental Neurology*, **2008**, 214, 240-6	5.7	33
26	Dynamic intra- and interhemispheric interactions during unilateral and bilateral hand movements assessed with fMRI and DCM. *NeuroImage*, **2008**, 41, 1382-94	7.9	303
25	Functional lateralization of face, hand, and trunk representation in anatomically defined human somatosensory areas. *Cerebral Cortex*, **2008**, 18, 2820-30	5.1	104
24	Effects of low-frequency repetitive transcranial magnetic stimulation of the contralesional primary motor cortex on movement kinematics and neural activity in subcortical stroke. *Archives of Neurology*, **2008**, 65, 741-7		204
23	The effects of 1 Hz rTMS over the hand area of M1 on movement kinematics of the ipsilateral hand. *Journal of Neural Transmission*, **2008**, 115, 1269-74	4.3	32
22	Cortical connectivity after subcortical stroke assessed with functional magnetic resonance imaging. *Annals of Neurology*, **2008**, 63, 236-46	9.4	425
21	Dexterity is impaired at both hands following unilateral subcortical middle cerebral artery stroke. *European Journal of Neuroscience*, **2007**, 25, 3173-84	3.5	117
20	The somatotopic organization of cytoarchitectonic areas on the human parietal operculum. *Cerebral Cortex*, **2007**, 17, 1800-11	5.1	174

19	Subdivisions of human parietal area 5 revealed by quantitative receptor autoradiography: a parietal region between motor, somatosensory, and cingulate cortical areas. *NeuroImage*, **2005**, 25, 975-92	7.9	67
18	A new SPM toolbox for combining probabilistic cytoarchitectonic maps and functional imaging data. *NeuroImage*, **2005**, 25, 1325-35	7.9	3115
17	Transmitter receptors reveal segregation of cortical areas in the human superior parietal cortex: relations to visual and somatosensory regions. *NeuroImage*, **2005**, 28, 362-79	7.9	65
16	Dominance of the right hemisphere and role of area 2 in human kinesthesia. *Journal of Neurophysiology*, **2005**, 93, 1020-34	3.2	183
15	The functional organization of the intraparietal sulcus in humans and monkeys. *Journal of Anatomy*, **2005**, 207, 3-17	2.9	519
14	Somatotopy and attentional modulation of the human parietal and opercular regions. *Journal of Neuroscience*, **2004**, 24, 5391-9	6.6	55
13	Human medial intraparietal cortex subserves visuomotor coordinate transformation. *NeuroImage*, **2004**, 23, 1494-506	7.9	203
12	Regional cerebral blood flow correlations of somatosensory areas 3a, 3b, 1, and 2 in humans during rest: a PET and cytoarchitectural study. *Human Brain Mapping*, **2003**, 19, 183-96	5.9	28
11	Somatosensory areas engaged during discrimination of steady pressure, spring strength, and kinesthesia. *Human Brain Mapping*, **2003**, 20, 103-15	5.9	28
10	Performing allocentric visuospatial judgments with induced distortion of the egocentric reference frame: an fMRI study with clinical implications. *NeuroImage*, **2003**, 20, 1505-17	7.9	171
9	Architectonics of the human cerebral cortex and transmitter receptor fingerprints: reconciling functional neuroanatomy and neurochemistry. *European Neuropsychopharmacology*, **2002**, 12, 587-99	1.2	185
8	Crossmodal processing of object features in human anterior intraparietal cortex: an fMRI study implies equivalencies between humans and monkeys. *Neuron*, **2002**, 35, 173-84	13.9	287
7	Human somatosensory area 2: observer-independent cytoarchitectonic mapping, interindividual variability, and population map. *NeuroImage*, **2001**, 14, 617-31	7.9	308
6	Hierarchical processing of tactile shape in the human brain. *Neuron*, **2001**, 31, 317-28	13.9	230
5	Functional reorganization and neuromodulation425-437		1
4	Dynamic functional connectivity analysis reveals transiently increased segregation in patients with severe stroke		1
3	Bringing Proportional Recovery into Proportion: Bayesian Hierarchical Modelling of Post-Stroke Motor Performance		5
2	Acute ischemic stroke alters the brain preference for distinct dynamic connectivity states		1