

Annette Sterr

List of Publications by Year in descending order

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Version: 2024-02-01

98
papers

4,884
citations

81839

39
h-index

102432

66
g-index

102
all docs

102
docs citations

102
times ranked

5892
citing authors

#	ARTICLE	IF	CITATIONS
1	Improved auditory spatial tuning in blind humans. <i>Nature</i> , 1999, 400, 162-166.	13.7	568
2	Perceptual Correlates of Changes in Cortical Representation of Fingers in Blind Multifinger Braille Readers. <i>Journal of Neuroscience</i> , 1998, 18, 4417-4423.	1.7	323
3	Longer versus shorter daily constraint-induced movement therapy of chronic hemiparesis: An exploratory study. <i>Archives of Physical Medicine and Rehabilitation</i> , 2002, 83, 1374-1377.	0.5	255
4	Long-term effects of mild traumatic brain injury on cognitive performance. <i>Frontiers in Human Neuroscience</i> , 2013, 7, 30.	1.0	162
5	Motor imagery of complex everyday movements. An fMRI study. <i>NeuroImage</i> , 2007, 34, 702-713.	2.1	149
6	Are mild head injuries as mild as we think? Neurobehavioral concomitants of chronic post-concussion syndrome. <i>BMC Neurology</i> , 2006, 6, 7.	0.8	147
7	Changed perceptions in Braille readers. <i>Nature</i> , 1998, 391, 134-135.	13.7	146
8	Expansion of the Tonotopic Area in the Auditory Cortex of the Blind. <i>Journal of Neuroscience</i> , 2002, 22, 9941-9944.	1.7	145
9	The reorganisation of memory during sleep. <i>Sleep Medicine Reviews</i> , 2014, 18, 531-541.	3.8	145
10	Cortical activation during executed, imagined, observed, and passive wrist movements in healthy volunteers and stroke patients. <i>NeuroImage</i> , 2012, 62, 266-280.	2.1	132
11	Post-concussion syndrome: Prevalence after mild traumatic brain injury in comparison with a sample without head injury. <i>Brain Injury</i> , 2012, 26, 14-26.	0.6	111
12	Sleep recalibrates homeostatic and associative synaptic plasticity in the human cortex. <i>Nature Communications</i> , 2016, 7, 12455.	5.8	109
13	Neurobehavioral aspects of recovery: Assessment of the learned nonuse phenomenon in hemiparetic adolescents. <i>Archives of Physical Medicine and Rehabilitation</i> , 2002, 83, 1726-1731.	0.5	100
14	Motor-improvement following intensive training in low-functioning chronic hemiparesis. <i>Neurology</i> , 2003, 61, 842-844.	1.5	79
15	Modulation of Total Sleep Time by Transcranial Direct Current Stimulation (tDCS). <i>Neuropsychopharmacology</i> , 2016, 41, 2577-2586.	2.8	76
16	The Applicability of Standard Error of Measurement and Minimal Detectable Change to Motor Learning Research—A Behavioral Study. <i>Frontiers in Human Neuroscience</i> , 2018, 12, 95.	1.0	75
17	Time to wake-up: Sleep problems and daytime sleepiness in long-term stroke survivors. <i>Brain Injury</i> , 2008, 22, 575-579.	0.6	74
18	A systematic review of the effectiveness of self-management interventions in people with multiple sclerosis at improving depression, anxiety and quality of life. <i>PLoS ONE</i> , 2017, 12, e0185931.	1.1	74

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19	Mobile EEG and its potential to promote the theory and application of imagery-based motor rehabilitation. <i>International Journal of Psychophysiology</i> , 2014, 91, 10-15.	0.5	72
20	Synaptic plasticity model of therapeutic sleep deprivation in major depression. <i>Sleep Medicine Reviews</i> , 2016, 30, 53-62.	3.8	66
21	Sleep EEG Derived From Behind-the-Ear Electrodes (cEEGrid) Compared to Standard Polysomnography: A Proof of Concept Study. <i>Frontiers in Human Neuroscience</i> , 2018, 12, 452.	1.0	65
22	Behavioral and emotional consequences of brief delays in human-computer interaction. <i>International Journal of Human Computer Studies</i> , 2009, 67, 561-570.	3.7	63
23	Dynamic regulation of interregional cortical communication by slow brain oscillations during working memory. <i>Nature Communications</i> , 2019, 10, 4242.	5.8	61
24	Machine-learning-derived sleep-wake staging from around-the-head ear electroencephalogram outperforms manual scoring and actigraphy. <i>Journal of Sleep Research</i> , 2019, 28, e12786.	1.7	60
25	The Role of Corticospinal Tract Damage in Chronic Motor Recovery and Neurorehabilitation: A Pilot Study. <i>Neurorehabilitation and Neural Repair</i> , 2010, 24, 413-419.	1.4	59
26	Long-term structural changes after mTBI and their relation to post-concussion symptoms. <i>Brain Injury</i> , 2015, 29, 1211-1218.	0.6	58
27	Neural correlates of movement preparation in healthy ageing. <i>European Journal of Neuroscience</i> , 2008, 27, 254-260.	1.2	56
28	Top-down control of arousal and sleep: Fundamentals and clinical implications. <i>Sleep Medicine Reviews</i> , 2017, 31, 17-24.	3.8	55
29	On the equivalence of executed and imagined movements: Evidence from lateralized motor and nonmotor potentials. <i>Human Brain Mapping</i> , 2009, 30, 3275-3286.	1.9	52
30	Polysomnographic Characteristics of Sleep in Stroke: A Systematic Review and Meta-Analysis. <i>PLoS ONE</i> , 2016, 11, e0148496.	1.1	52
31	Corticospinal Tract Integrity and Lesion Volume Play Different Roles in Chronic Hemiparesis and Its Improvement Through Motor Practice. <i>Neurorehabilitation and Neural Repair</i> , 2014, 28, 335-343.	1.4	51
32	Modulation of alertness by sustained cognitive demand in MS as surrogate measure of fatigue and fatigability. <i>Journal of the Neurological Sciences</i> , 2014, 340, 178-182.	0.3	48
33	REM sleep and memory reorganization: Potential relevance for psychiatry and psychotherapy. <i>Neurobiology of Learning and Memory</i> , 2015, 122, 28-40.	1.0	48
34	Multimodal imaging of mild traumatic brain injury and persistent postconcussion syndrome. <i>Brain and Behavior</i> , 2015, 5, 45-61.	1.0	48
35	Short-term learning of a visually guided power-grip task is associated with dynamic changes in EEG oscillatory activity. <i>Clinical Neurophysiology</i> , 2008, 119, 1419-1430.	0.7	46
36	Detection of Infarct Lesions From Single MRI Modality Using Inconsistency Between Voxel Intensity and Spatial Location-A 3-D Automatic Approach. <i>IEEE Transactions on Information Technology in Biomedicine</i> , 2008, 12, 532-540.	3.6	44

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37	Models to Tailor Brain Stimulation Therapies in Stroke. <i>Neural Plasticity</i> , 2016, 2016, 1-17.	1.0	44
38	Differential effects of bifrontal tDCS on arousal and sleep duration in insomnia patients and healthy controls. <i>Brain Stimulation</i> , 2019, 12, 674-683.	0.7	42
39	Effector-dependent activity in the left dorsal premotor cortex in motor imagery. <i>European Journal of Neuroscience</i> , 2007, 26, 3303-3308.	1.2	40
40	Application of the CIT Concept in the Clinical Environment. <i>Cognitive and Behavioral Neurology</i> , 2006, 19, 48-54.	0.5	39
41	Intensive training in chronic upper limb hemiparesis does not increase spasticity or synergies. <i>Neurology</i> , 2004, 63, 2176-2177.	1.5	37
42	Community exercise is feasible for neuromuscular diseases and can improve aerobic capacity. <i>Neurology</i> , 2019, 92, e1773-e1785.	1.5	37
43	High-Intensity Chronic Stroke Motor Imagery Neurofeedback Training at Home: Three Case Reports. <i>Clinical EEG and Neuroscience</i> , 2017, 48, 403-412.	0.9	35
44	Post-stroke insomnia in community-dwelling patients with chronic motor stroke: Physiological evidence and implications for stroke care. <i>Scientific Reports</i> , 2018, 8, 8409.	1.6	35
45	Electrophysiological evidence for cortical plasticity with movement repetition. <i>European Journal of Neuroscience</i> , 2005, 21, 2271-2277.	1.2	33
46	EEG dipole analysis of motor-priming foreperiod activity reveals separate sources for motor and spatial attention components. <i>Clinical Neurophysiology</i> , 2006, 117, 2675-2683.	0.7	32
47	Neural Activation and Functional Connectivity during Motor Imagery of Bimanual Everyday Actions. <i>PLoS ONE</i> , 2012, 7, e38506.	1.1	32
48	Interacting Memory Systems—Does EEG Alpha Activity Respond to Semantic Long-Term Memory Access in a Working Memory Task?. <i>Biology</i> , 2015, 4, 1-16.	1.3	32
49	Blind Braille readers mislocate tactile stimuli. <i>Biological Psychology</i> , 2003, 63, 117-127.	1.1	31
50	Potential for use of creatine supplementation following mild traumatic brain injury. <i>Concussion</i> , 2017, 2, CNC34.	1.2	31
51	Exploring a repetitive training regime for upper limb hemiparesis in an in-patient setting: a report on three case studies. <i>Brain Injury</i> , 2002, 16, 1093-1107.	0.6	28
52	Motor Planning in Chronic Upper-Limb Hemiparesis: Evidence from Movement-Related Potentials. <i>PLoS ONE</i> , 2012, 7, e44558.	1.1	26
53	Development and Evaluation of a Cognitive Behavioural Intervention for Chronic Post-Stroke Insomnia. <i>Behavioural and Cognitive Psychotherapy</i> , 2018, 46, 641-660.	0.9	25
54	Activation of SI is modulated by attention: a random effects fMRI study using mechanical stimuli. <i>NeuroReport</i> , 2007, 18, 607-611.	0.6	24

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55	Upper Limb Immobilisation: A Neural Plasticity Model with Relevance to Poststroke Motor Rehabilitation. <i>Neural Plasticity</i> , 2016, 2016, 1-17.	1.0	24
56	Plasticity of Adult Sensorimotor System in Severe Brain Infarcts: Challenges and Opportunities. <i>Neural Plasticity</i> , 2012, 2012, 1-10.	1.0	23
57	Diversity of approaches in assessment of executive functions in stroke: Limited evidence?. <i>ENeurologicalSci</i> , 2015, 1, 12-20.	0.5	20
58	Task Complexity Differentially Affects Executed and Imagined Movement Preparation: Evidence from Movement-Related Potentials. <i>PLoS ONE</i> , 2010, 5, e9284.	1.1	20
59	fMRI effects of task demand and feedback accuracy on grip force tracking. <i>Neuroscience Letters</i> , 2009, 457, 61-65.	1.0	19
60	Traumatic brain injury and violent behavior in females: A systematic review. <i>Aggression and Violent Behavior</i> , 2015, 25, 54-64.	1.2	19
61	CI therapy distribution: Theory, evidence and practice. <i>NeuroRehabilitation</i> , 2006, 21, 97-105.	0.5	18
62	Monitoring long-term effects of mild traumatic brain injury with magnetic resonance spectroscopy. <i>NeuroReport</i> , 2013, 24, 677-681.	0.6	17
63	Application of Transcranial Direct Current Stimulation in Neurorehabilitation: The Modulatory Effect of Sleep. <i>Frontiers in Neurology</i> , 2016, 7, 54.	1.1	17
64	Sleep is more than rest for plasticity in the human cortex. <i>Sleep</i> , 2021, 44, .	0.6	16
65	Cortical thickness changes in the non-lesioned hemisphere associated with non-paretic arm immobilization in modified CI therapy. <i>NeuroImage: Clinical</i> , 2013, 2, 797-803.	1.4	15
66	Effects of Anodal Transcranial Direct Current Stimulation on Visually Guided Learning of Grip Force Control. <i>Biology</i> , 2015, 4, 173-186.	1.3	14
67	The functional magnetic resonance imaging (fMRI) procedure as experienced by healthy participants and stroke patients – A pilot study. <i>BMC Medical Imaging</i> , 2009, 9, 14.	1.4	13
68	Quantitative Electroencephalography and Behavioural Correlates of Daytime Sleepiness in Chronic Stroke. <i>BioMed Research International</i> , 2014, 2014, 1-11.	0.9	13
69	Metabolic syndrome alters relationships between cardiometabolic variables, cognition and white matter hyperintensity load. <i>Scientific Reports</i> , 2019, 9, 4356.	1.6	13
70	A First Step Toward the Operationalization of the Learned Non-Use Phenomenon: A Delphi Study. <i>Neurorehabilitation and Neural Repair</i> , 2021, 35, 383-392.	1.4	13
71	Training-Based Interventions in Motor Rehabilitation after Stroke: Theoretical and Clinical Considerations. <i>Behavioural Neurology</i> , 2004, 15, 55-63.	1.1	12
72	Preparing not to move: Does no-response priming affect advance movement preparation processes in a response priming task?. <i>Biological Psychology</i> , 2006, 72, 154-159.	1.1	11

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73	Brief periods of NREM sleep do not promote early offline gains but subsequent on-task performance in motor skill learning. <i>Neurobiology of Learning and Memory</i> , 2017, 145, 18-27.	1.0	11
74	Sensorimotor white matter projections and disease severity in primary Restless Legs Syndrome/Willis-Ekbom disease: a multimodal DTI analysis. <i>Sleep Medicine</i> , 2020, 73, 106-116.	0.8	10
75	Development of cortical reorganization in the somatosensory cortex of adult Braille students. <i>Electroencephalography and Clinical Neurophysiology Supplement</i> , 1999, 49, 292-8.	0.0	10
76	CI Therapy is Beneficial to Patients with Chronic Low-Functioning Hemiparesis after Stroke. <i>Frontiers in Neurology</i> , 2014, 5, 204.	1.1	9
77	CI therapy distribution: theory, evidence and practice. <i>NeuroRehabilitation</i> , 2006, 21, 97-105.	0.5	9
78	Evening preference correlates with regional brain volumes in the anterior occipital lobe. <i>Chronobiology International</i> , 2021, 38, 1135-1142.	0.9	8
79	A case to be made: theoretical and empirical arguments for the need to consider fatigue in post-stroke motor rehabilitation. <i>Neural Regeneration Research</i> , 2015, 10, 1195.	1.6	7
80	Short-interval intracortical inhibition is decreased in restless legs syndrome across a range of severity. <i>Sleep Medicine</i> , 2019, 62, 34-42.	0.8	5
81	Utility of the Brain Injury Screening Index in Identifying Female Prisoners With a Traumatic Brain Injury and Associated Cognitive Impairment. <i>Journal of Correctional Health Care</i> , 2019, 25, 313-327.	0.2	5
82	The Importance of the Derivative in Sex-Hormone Cycles: A Reason Why Behavioural Measures in Sex-Hormone Studies Are So Mercurial. <i>PLoS ONE</i> , 2014, 9, e111891.	1.1	4
83	A Brazilian-Portuguese version of the Kinesthetic and Visual Motor Imagery Questionnaire. <i>Arquivos De Neuro-Psiquiatria</i> , 2018, 76, 26-31.	0.3	4
84	A behaviour study of the effects of visual feedback on fluctuating isometric force production with force tracking tasks. <i>International Journal of Biomedical Engineering and Technology</i> , 2008, 1, 367.	0.2	3
85	Normative aerobic exercise values in CMT. <i>Neuromuscular Disorders</i> , 2015, 25, S285-S286.	0.3	3
86	Fatigue in Multiple Sclerosis Compared to Stroke. <i>Frontiers in Neurology</i> , 2015, 6, 116.	1.1	3
87	On-task theta power is correlated to motor imagery performance. , 2019, , .		3
88	Autonomic Modulation in Duchenne Muscular Dystrophy During a Computer Task: A Prospective Transversal Controlled Trial Assessment by Non-linear Techniques. <i>Frontiers in Neurology</i> , 2021, 12, 720282.	1.1	2
89	The effect of mirror therapy can be improved by simultaneous robotic assistance. <i>Restorative Neurology and Neuroscience</i> , 2022, 40, 185-194.	0.4	2
90	Evaluating the benefits of community based aerobic training on the physical health and well-being of people with neuromuscular diseases: A pilot study. <i>Neuromuscular Disorders</i> , 2015, 25, S273-S274.	0.3	1

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91	Interventions to Enhance Adaptive Plasticity after Stroke: From Mechanisms to Therapeutic Perspectives. <i>Neural Plasticity</i> , 2016, 2016, 1-2.	1.0	1
92	Characteristics and neuropsychological impact of traumatic brain injury in female prisoners. <i>Brain Injury</i> , 2021, 35, 72-81.	0.6	1
93	Functional equivalence revisited: Costs and benefits of priming action with motor imagery and motor preparation.. <i>Journal of Experimental Psychology: Human Perception and Performance</i> , 2021, 47, 1698-1716.	0.7	1
94	Analyzing diffusion tensor images with ghosting artifacts: the effects of direct and indirect normalization. <i>Magnetic Resonance Imaging</i> , 2010, 28, 1507-1513.	1.0	0
95	Translational neurorehabilitation in the third world. <i>Journal of the Neurological Sciences</i> , 2015, 357, e458.	0.3	0
96	Holiday Play for Children with Disabilities in England: Access, Choice and Parentsâ€™ Views about Integration. <i>International Journal of Disability Development and Education</i> , 2017, 64, 573-595.	0.6	0
97	P032â€¦Data from the brazilian baependi heart study cohort yield new insights into the genetic epidemiology of insomnia. , 2019, , .		0
98	A Behavior Study of the Effects of Visual Feedback on Motor Output. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , 2006, , .	0.5	0