Guilherme Wood

List of Publications by Year
in descending order

118 papers	4,104 citations	134610 34 h-index	169272 56 g-index
127 all docs	127 docs citations	127 times ranked	4308 citing authors

#	Article	IF	Citations
1	Move your virtual body: differences and similarities in brain activation patterns during hand movements in real world and virtual reality. Virtual Reality, 2022, 26, 501-511.	4.1	7
2	Effects of electrical brain stimulation on brain indices and presence experience in immersive, interactive virtual reality. Virtual Reality, 2022, 26, 1019-1029.	4.1	3
3	Selfâ€efficacy matters: Influence of studentsâ€™ perceived selfâ€efficacy on statistics anxiety. Annals of the New York Academy of Sciences, 2022, 1514, 187-197.	1.8	3
4	MAOAâ€ŁPR polymorphism and math anxiety: A marker of genetic susceptibility to social influences in girls?. Annals of the New York Academy of Sciences, 2022, 1516, 135-150.	1.8	1
5	MRI correlates of cognitive improvement after home-based EEG neurofeedback training in patients with multiple sclerosis: a pilot study. Journal of Neurology, 2021, 268, 3808-3816.	1.8	8
6	Sex Differences in User Experience in a VR EEG Neurofeedback Paradigm. Lecture Notes in Computer Science, 2021, , 111-120.	1.0	2
7	The Potential of Functional Near-Infrared Spectroscopy (fNIRS) for Motion-Intensive Game Paradigms. Lecture Notes in Computer Science, 2021, , 91-100.	1.0	1
8	To Add or Not to Add Game Elements? Exploring the Effects of Different Cognitive Task Designs Using Eye Tracking. IEEE Transactions on Learning Technologies, 2020, 13, 847-860.	2.2	18
9	Programming experience associated with neural efficiency during figural reasoning. Scientific Reports, 2020, 10, 13351.	1.6	9
10	Differential Effects of Up- and Down-Regulation of SMR Coherence on EEG Activity and Memory Performance: A Neurofeedback Training Study. Frontiers in Human Neuroscience, 2020, 14, 606684.	1.0	6
11	Consensus on the reporting and experimental design of clinical and cognitive-behavioural neurofeedback studies (CRED-nf checklist). Brain, 2020, 143, 1674-1685.	3.7	188
12	How Much Do Strategy Reports Tell About the Outcomes of Neurofeedback Training? A Study on the Voluntary Up-Regulation of the Sensorimotor Rhythm. Frontiers in Human Neuroscience, 2020, 14, 218.	1.0	23
13	Game-based learning environments affect frontal brain activity. PLoS ONE, 2020, 15, e0242573.	1.1	17
14	Self-regulation of brain activity and its effect on cognitive function in patients with multiple sclerosis â€“ First insights from an interventional study using neurofeedback. Clinical Neurophysiology, 2019, 130, 2124-2131.	0.7	17
15	Mathematics and Emotions: The Case of Math Anxiety. , 2019, , 469-503.		17
16	Age-related differences in the within-session trainability of hemodynamic parameters: a near-infrared spectroscopyâ€“based neurofeedback study. Neurobiology of Aging, 2019, 81, 127-137.	1.5	7
17	Heterosis in COMT Val158Met Polymorphism Contributes to Sex-Differences in Childrenâ€™s Math Anxiety. Frontiers in Psychology, 2019, 10, 1013.	1.1	8
18	Response: Commentary: The Developmental Trajectory of the Operational Momentum Effect. Frontiers in Psychology, 2019, 10, 160.	1.1	2

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19	Effects of Motor Imagery and Visual Neurofeedback on Activation in the Swallowing Network: A Real-Time fMRI Study. Dysphagia, 2019, 34, 879-895.	1.0	31
20	Cognitive heterogeneity of math difficulties: A bottom-up classification approach. Journal of Numerical Cognition, 2019, 5, 55-85.	0.6	6
21	Age is reflected in the Fractal Dimensionality of MRI Diffusion Based Tractography. Scientific Reports, 2018, 8, 5431.	1.6	23
22	Noisy but not placebo: defining metrics for effects of neurofeedback. Brain, 2018, 141, e40-e40.	3.7	26
23	The Developmental Trajectory of the Operational Momentum Effect. Frontiers in Psychology, 2018, 9, 1062.	1.1	13
24	Trainability of hemodynamic parameters: A near-infrared spectroscopy based neurofeedback study. Biological Psychology, 2018, 136, 168-180.	1.1	9
25	EEG Neurofeedback Is Under Strong Control of Psychosocial Factors. Applied Psychophysiology Biofeedback, 2018, 43, 293-300.	1.0	22
26	Placebo hampers ability to self-regulate brain activity: A double-blind sham-controlled neurofeedback study. NeuroImage, 2018, 181, 797-806.	2.1	25
27	Towards using fNIRS recordings of mental arithmetic for the detection of residual cognitive activity in patients with disorders of consciousness (DOC). Brain and Cognition, 2018, 125, 78-87.	0.8	25
28	Hemodynamic signal changes during saliva and water swallowing: a near-infrared spectroscopy study. Journal of Biomedical Optics, 2018, 23, 1.	1.4	11
29	Upper Alpha Based Neurofeedback Training in Chronic Stroke: Brain Plasticity Processes and Cognitive Effects. Applied Psychophysiology Biofeedback, 2017, 42, 69-83.	1.0	43
30	Music strengthens prosocial effects of interpersonal synchronization â€“ If you move in time with the beat. Journal of Experimental Social Psychology, 2017, 72, 39-44.	1.3	42
31	Repetition suppression in aging: A near-infrared spectroscopy study on the size-congruity effect. NeuroImage, 2017, 157, 196-208.	2.1	6
32	On assessing neurofeedback effects: should double-blind replace neurophysiological mechanisms?. Brain, 2017, 140, e63-e63.	3.7	34
33	Neurofeedback. , 2017, , 147-164.		4
34	Specific or nonspecific? Evaluation of band, baseline, and cognitive specificity of sensorimotor rhythm- and gamma-based neurofeedback. International Journal of Psychophysiology, 2017, 120, 1-13.	0.5	20
35	On the homogeneity and heterogeneity of cortical thickness profiles in Homo sapiens sapiens. Scientific Reports, 2017, 7, 17937.	1.6	1
36	Finding the SNARC Instead of Hunting It: A 20â^—20 Monte Carlo Investigation. Frontiers in Psychology, 2017, 8, 1194.	1.1	14

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37	Cognitive Mechanisms Underlying Directional and Non-directional Spatial-Numerical Associations across the Lifespan. Frontiers in Psychology, 2017, 8, 1421.	1.1	24
38	Short-term Beneficial Effects of 12 Sessions of Neurofeedback on Avoidant Personality Accentuation in the Treatment of Alcohol Use Disorder. Frontiers in Psychology, 2017, 8, 1688.	1.1	12
39	Ability to Gain Control Over Oneâ€™s Own Brain Activity and its Relation to Spiritual Practice: A Multimodal Imaging Study. Frontiers in Human Neuroscience, 2017, 11, 271.	1.0	35
40	Neural Entrainment to Polyrhythms: A Comparison of Musicians and Non-musicians. Frontiers in Neuroscience, 2017, 11, 208.	1.4	35
41	Different Topological Properties of EEG-Derived Networks Describe Working Memory Phases as Revealed by Graph Theoretical Analysis. Frontiers in Human Neuroscience, 2017, 11, 637.	1.0	36
42	FMRI to probe sex-related differences in brain function with multitasking. PLoS ONE, 2017, 12, e0181554.	1.1	14
43	Does Feedback Design Matter? A Neurofeedback Study Comparing Immersive Virtual Reality and Traditional Training Screens in Elderly. International Journal of Serious Games, 2017, 4, .	0.8	6
44	Shutting Down Sensorimotor Interferences after Stroke: A Proof-of-Principle SMR Neurofeedback Study. Frontiers in Human Neuroscience, 2016, 10, 348.	1.0	29
45	What Is Specific and What Is Shared Between Numbers and Words?. Frontiers in Psychology, 2016, 7, 22.	1.1	19
46	Components of Mathematics Anxiety: Factor Modeling of the MARS30-Brief. Frontiers in Psychology, 2016, 7, 91.	1.1	16
47	Evaluation of a neurofeedback-based cognitive telerehabilitation system for neurological patients. , 2016, , .		4
48	EEG neurofeedback effects in the treatment of adolescent anorexia nervosa. Eating Disorders, 2016, 24, 354-374.	1.9	28
49	Article Commentary: Temporal dynamics of number-space interaction in line bisection: Comment on Cleland and Bull (2015). Quarterly Journal of Experimental Psychology, 2016, 69, 1239-1242.	0.6	5
50	Neural Entrainment in Drum Rhythms with Silent Breaks: Evidence from Steady-state Evoked and Event-related Potentials. Journal of Cognitive Neuroscience, 2016, 28, 1865-1877.	1.1	24
51	Considering structural connectivity in the triple code model of numerical cognition: differential connectivity for magnitude processing and arithmetic facts. Brain Structure and Function, 2016, 221, 979-995.	1.2	83
52	Interactive effects of age and gender on EEG power and coherence during a short-term memory task in middle-aged adults. Neurobiology of Aging, 2016, 40, 127-137.	1.5	15
53	Age-related effects on verbal and visuospatial memory are mediated by theta and alpha II rhythms. International Journal of Psychophysiology, 2016, 99, 67-78.	0.5	15
54	Monotonic non-linear transformations as a tool to investigate age-related effects on brain white matter integrity: A Boxâ€“Cox investigation. NeuroImage, 2016, 125, 1119-1130.	2.1	9

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55	The Effectiveness of Visual Short-Time Neurofeedback on Brain Activity and Clinical Characteristics in Alcohol Use Disorders. Clinical EEG and Neuroscience, 2016, 47, 188-195.	0.9	20
56	Effects of a 3D Virtual Reality Neurofeedback Scenario on User Experience and Performance in Stroke Patients. Lecture Notes in Computer Science, 2016, , 83-94.	1.0	8
57	Specific effects of EEG based neurofeedback training on memory functions in post-stroke victims. Journal of NeuroEngineering and Rehabilitation, 2015, 12, 107.	2.4	74
58	Stable measures of number sense accuracy in math learning disability: Is it time to proceed from basic science to clinical application?. PsyCh Journal, 2015, 4, 218-225.	0.5	8
59	Hemodynamic Signal Changes Accompanying Execution and Imagery of Swallowing in Patients with Dysphagia: A Multiple Single-Case Near-Infrared Spectroscopy Study. Frontiers in Neurology, 2015, 6, 151.	1.1	34
60	Voluntary Modulation of Hemodynamic Responses in Swallowing Related Motor Areas: A Near-Infrared Spectroscopy-Based Neurofeedback Study. PLoS ONE, 2015, 10, e0143314.	1.1	23
61	From "Five" to 5 for 5 Minutes: Arabic Number Transcoding as a Short, Specific, and Sensitive Screening Tool for Mathematics Learning Difficulties. Archives of Clinical Neuropsychology, 2015, 30, 88-98.	0.3	27
62	Brain volumetry and self-regulation of brain activity relevant for neurofeedback. Biological Psychology, 2015, 110, 126-133.	1.1	43
63	Resting-state sensorimotor rhythm (SMR) power predicts the ability to up-regulate SMR in an EEG-instrumental conditioning paradigm. Clinical Neurophysiology, 2015, 126, 2068-2077.	0.7	58
64	Shutting down sensorimotor interference unblocks the networks for stimulus processing: An SMR neurofeedback training study. Clinical Neurophysiology, 2015, 126, 82-95.	0.7	88
65	Free Your Brain a Working Memory TrainingÂGame. Lecture Notes in Computer Science, 2015, , 132-141.	1.0	6
66	Neuronal Correlates of Cognitive Control during Gaming Revealed by Near-Infrared Spectroscopy. PLoS ONE, 2015, 10, e0134816.	1.1	20
67	Game elements improve performance in a working memory training task. International Journal of Serious Games, 2015, 2, .	0.8	58
68	Neurofeedback and Serious Games. , 2015, , 83-112.		11
69	Processamento fonolÃ³gico e desempenho em aritmÃ©tica: uma revisÃ£o da relevÂ¢ncia para as dificuldades de aprendizagem. Temas Em Psicologia, 2015, 23, 157-173.	0.3	10
70	In How Many Ways is the Approximate Number System Associated with Exact Calculation?. PLoS ONE, 2014, 9, e111155.	1.1	49
71	Contributions from specific and general factors to unique deficits: two cases of mathematics learning difficulties. Frontiers in Psychology, 2014, 5, 102.	1.1	17
72	On the need to better specify the concept of Ã¢â‚¬Å“controlÃ¢â‚¬Â•in brain-computer-interfaces/neurofeedback research. Frontiers in Systems Neuroscience, 2014, 8, 171.	1.2	45

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73	The Potential Use of Neurophysiological Signals for Learning Analytics. , 2014, , .		3
74	Neurophysiological methods for monitoring brain activity in serious games and virtual environments: a review. International Journal of Technology Enhanced Learning, 2014, 6, 78.	0.4	35
75	Near-infrared spectroscopy based neurofeedback training increases specific motor imagery related cortical activation compared to sham feedback. Biological Psychology, 2014, 95, 21-30.	1.1	90
76	Electrophysiological correlates of mental navigation in blind and sighted people. Behavioural Brain Research, 2014, 273, 106-115.	1.2	16
77	Changes in hemodynamic signals accompanying motor imagery and motor execution of swallowing: A near-infrared spectroscopy study. NeuroImage, 2014, 93, 1-10.	2.1	39
78	Mind over brain, brain over mind: cognitive causes and consequences of controlling brain activity. Frontiers in Human Neuroscience, 2014, 8, 348.	1.0	15
79	Phonemic awareness as a pathway to number transcoding. Frontiers in Psychology, 2014, 5, 13.	1.1	37
80	Impaired acuity of the approximate number system in 22q11.2 microdeletion syndrome.. Psychology and Neuroscience, 2014, 7, 151-158.	0.5	9
81	Virtual reality in neurologic rehabilitation of spatial disorientation. Journal of NeuroEngineering and Rehabilitation, 2013, 10, 17.	2.4	66
82	Object-based neglect in number processing. Behavioral and Brain Functions, 2013, 9, 5.	1.4	7
83	Are reaction times obtained during fMRI scanning reliable and valid measures of behavior?. Experimental Brain Research, 2013, 227, 93-100.	0.7	16
84	Transcoding abilities in typical and atypical mathematics achievers: The role of working memory and procedural and lexical competencies. Journal of Experimental Child Psychology, 2013, 116, 707-727.	0.7	53
85	Count on dopamine: influences of COMT polymorphisms on numerical cognition. Frontiers in Psychology, 2013, 4, 531.	1.1	21
86	Control beliefs can predict the ability to up-regulate sensorimotor rhythm during neurofeedback training. Frontiers in Human Neuroscience, 2013, 7, 478.	1.0	125
87	Learning to modulate one's own brain activity: the effect of spontaneous mental strategies. Frontiers in Human Neuroscience, 2013, 7, 695.	1.0	161
88	Neural substrates of cognitive control under the belief of getting neurofeedback training. Frontiers in Human Neuroscience, 2013, 7, 914.	1.0	91
89	Explaining school mathematics performance from symbolic and nonsymbolic magnitude processing: Similarities and differences between typical and low-achieving children.. Psychology and Neuroscience, 2012, 5, 37-46.	0.5	26
90	Math Anxiety Questionnaire: Similar Latent Structure in Brazilian and German School Children. Child Development Research, 2012, 2012, 1-10.	1.8	39

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91	Math Self-Assessment, but Not Negative Feelings, Predicts Mathematics Performance of Elementary School Children. Child Development Research, 2012, 2012, 1-10.	1.8	30
92	Spatial biases in number line bisection tasks are due to a cognitive illusion of length. Experimental Brain Research, 2012, 220, 147-152.	0.7	5
93	What Accounts for Individual and Gender Differences in the Multi-Digit Number Processing of Primary School Children?. Zeitschrift Fur Psychologie / Journal of Psychology, 2012, 220, 78-89.	0.7	18
94	A hand full of numbers: a role for offloading in arithmetics learning?. Frontiers in Psychology, 2011, 2, 368.	1.1	60
95	Meta-Analyses of Developmental fMRI Studies Investigating Typical and Atypical Trajectories of Number Processing and Calculation. Developmental Neuropsychology, 2011, 36, 763-787.	1.0	199
96	To carry or not to carry â€" Is this the question? Disentangling the carry effect in multi-digit addition. Acta Psychologica, 2010, 135, 67-76.	0.7	45
97	Oscillatory EEG correlates of an implicit activation of multiplication facts in the number bisection task. Brain Research, 2010, 1320, 85-94.	1.1	16
98	Categorical and continuous - disentangling the neural correlates of the carry effect in multi-digit addition. Behavioral and Brain Functions, 2010, 6, 70.	1.4	24
99	Predictors of performance in a real-life statistics examination depend on the individual cortisol profile. Biological Psychology, 2010, 85, 410-416.	1.1	22
100	Genetic Contribution to Variation in Cognitive Function: An fMRI Study in Twins. Science, 2009, 323, 1737-1740.	6.0	97
101	Developmental Trajectories of Magnitude Processing and Interference Control: An fMRI Study. Cerebral Cortex, 2009, 19, 2755-2765.	1.6	28
102	The exact vs. approximate distinction in numerical cognition may not be exact, but only approximate: How different processes work together in multi-digit addition. Brain and Cognition, 2009, 69, 369-381.	0.8	45
103	Developmental dyscalculia: Compensatory mechanisms in left intraparietal regions in response to nonsymbolic magnitudes. Behavioral and Brain Functions, 2009, 5, 35.	1.4	75
104	All for one but not one for all: How multiple number representations are recruited in one numerical task. Brain Research, 2008, 1187, 154-166.	1.1	47
105	Using parametric regressors to disentangle properties of multi-feature processes. Behavioral and Brain Functions, 2008, 4, 38.	1.4	24
106	Naming speed in dyslexia and dyscalculia. Learning and Individual Differences, 2008, 18, 224-236.	1.5	115
107	A developmental fMRI study of nonsymbolic numerical and spatial processing. Cortex, 2008, 44, 376-385.	1.1	116
108	Impairments of the mental number line for two-digit numbers in neglect. Cortex, 2008, 44, 429-438.	1.1	38

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109	An fMRI study of the numerical Stroop task in individuals with and without minimal cognitive impairment. Cortex, 2008, 44, 1248-1255.	1.1	61
110	Numbers, space, and action â€“ From finger counting to the mental number line and beyond. Cortex, 2008, 44, 353-358.	1.1	45
111	Crossed Hands and the Snarc Effect: Afailure to Replicate Dehaene, Bossini and Giraux (1993). Cortex, 2006, 42, 1069-1079.	1.1	91
112	Variability of the Snarc Effect: Systematic Interindividual Differences or Just Random Error?. Cortex, 2006, 42, 1119-1123.	1.1	18
113	What do Semi-Illiterate Adults Know About 2-Digit Arabic Numbers?. Cortex, 2006, 42, 48-56.	1.1	10
114	Neural representations of two-digit numbers: A parametric fMRI study. NeuroImage, 2006, 29, 358-367.	2.1	54
115	The Universal SNARC Effect. Experimental Psychology, 2005, 52, 187-194.	0.3	234
116	How to Exercise by Imagining Movements. Frontiers for Young Minds, 0, 5, .	0.8	2
117	The Influence of Spatial Resolution and Fiber Density on the Fractal Dimension of Cerebral Fiber Tracts. Fractals, 0, , .	1.8	0
118	Neurofeedback and Serious Games. Advances in Game-based Learning Book Series, 0, , 82-110.	0.2	7