

Vincent Walsh

List of Publications by Citations

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116
papers

13,076
citations

58
h-index

114
g-index

117
ext. papers

14,516
ext. citations

5.2
avg, IF

6.77
L-index

#	Paper	IF	Citations
116	A theory of magnitude: common cortical metrics of time, space and quantity. <i>Trends in Cognitive Sciences</i> , 2003 , 7, 483-8	14	1459
115	Transcranial magnetic stimulation in cognitive neuroscience--virtual lesion, chronometry, and functional connectivity. <i>Current Opinion in Neurobiology</i> , 2000 , 10, 232-7	7.6	683
114	Transcranial magnetic stimulation and cognitive neuroscience. <i>Nature Reviews Neuroscience</i> , 2000 , 1, 73-9	13.5	570
113	The parietal cortex and the representation of time, space, number and other magnitudes. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2009 , 364, 1831-40	5.8	497
112	Sensorimotor learning configures the human mirror system. <i>Current Biology</i> , 2007 , 17, 1527-31	6.3	486
111	State-dependency in brain stimulation studies of perception and cognition. <i>Trends in Cognitive Sciences</i> , 2008 , 12, 447-54	14	404
110	TMS evidence for the involvement of the right occipital face area in early face processing. <i>Current Biology</i> , 2007 , 17, 1568-73	6.3	364
109	Complementary localization and lateralization of orienting and motor attention. <i>Nature Neuroscience</i> , 2001 , 4, 656-61	25.5	334
108	Frequency-dependent electrical stimulation of the visual cortex. <i>Current Biology</i> , 2008 , 18, 1839-43	6.3	298
107	Optimizing functional accuracy of TMS in cognitive studies: a comparison of methods. <i>Journal of Cognitive Neuroscience</i> , 2009 , 21, 207-21	3.1	266
106	The role of the occipital face area in the cortical face perception network. <i>Experimental Brain Research</i> , 2011 , 209, 481-93	2.3	253
105	Numerical representation in the parietal lobes: abstract or not abstract?. <i>Behavioral and Brain Sciences</i> , 2009 , 32, 313-28; discussion 328-73	0.9	253
104	Modulating neuronal activity produces specific and long-lasting changes in numerical competence. <i>Current Biology</i> , 2010 , 20, 2016-20	6.3	253
103	Triple dissociation of faces, bodies, and objects in extrastriate cortex. <i>Current Biology</i> , 2009 , 19, 319-24	6.3	244
102	Transcranial magnetic stimulation disrupts the perception and embodiment of facial expressions. <i>Journal of Neuroscience</i> , 2008 , 28, 8929-33	6.6	244
101	Magnetically induced phosphenes in sighted, blind and blindsighted observers. <i>NeuroReport</i> , 2000 , 11, 3269-73	1.7	219
100	Neural adaptation reveals state-dependent effects of transcranial magnetic stimulation. <i>European Journal of Neuroscience</i> , 2007 , 25, 1874-81	3.5	204

99	Double dissociation of V1 and V5/MT activity in visual awareness. <i>Cerebral Cortex</i> , 2005 , 15, 1736-41	5.1	203
98	Dexterity with numbers: rTMS over left angular gyrus disrupts finger gnosis and number processing. <i>Neuropsychologia</i> , 2005 , 43, 1609-24	3.2	197
97	Efficacy of repetitive transcranial magnetic stimulation/transcranial direct current stimulation in cognitive neurorehabilitation. <i>Brain Stimulation</i> , 2008 , 1, 326-36	5.1	192
96	Associative sequence learning: the role of experience in the development of imitation and the mirror system. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2009 , 364, 2369-80	5.8	187
95	The mental number line and the human angular gyrus. <i>NeuroImage</i> , 2001 , 14, 1278-89	7.9	184
94	Modulating behavioral inhibition by tDCS combined with cognitive training. <i>Experimental Brain Research</i> , 2012 , 219, 363-8	2.3	178
93	Spatial neglect in near and far space investigated by repetitive transcranial magnetic stimulation. <i>Brain</i> , 2002 , 125, 2012-22	11.2	175
92	Transfer of cognitive training across magnitude dimensions achieved with concurrent brain stimulation of the parietal lobe. <i>Journal of Neuroscience</i> , 2013 , 33, 14899-907	6.6	147
91	Task-specific impairments and enhancements induced by magnetic stimulation of human visual area V5. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 1998 , 265, 537-43	4.4	146
90	Transcranial Magnetic Stimulation 2003 ,		144
89	Sensory and association cortex in time perception. <i>Journal of Cognitive Neuroscience</i> , 2008 , 20, 1054-62	3.1	136
88	Inter-individual differences in empathy are reflected in human brain structure. <i>NeuroImage</i> , 2012 , 62, 2034-9	7.9	135
87	Timing of target discrimination in human frontal eye fields. <i>Journal of Cognitive Neuroscience</i> , 2004 , 16, 1060-7	3.1	134
86	Priming of motion direction and area V5/MT: a test of perceptual memory. <i>Cerebral Cortex</i> , 2002 , 12, 663-9	5.1	131
85	Magnetic stimulation studies of visual cognition. <i>Trends in Cognitive Sciences</i> , 1998 , 2, 103-10	14	129
84	Different brain circuits underlie motor and perceptual representations of temporal intervals. <i>Journal of Cognitive Neuroscience</i> , 2008 , 20, 204-14	3.1	116
83	Transcranial alternating current stimulation (tACS) modulates cortical excitability as assessed by TMS-induced phosphene thresholds. <i>Clinical Neurophysiology</i> , 2010 , 121, 1551-1554	4.3	114
82	Frequency specific modulation of human somatosensory cortex. <i>Frontiers in Psychology</i> , 2011 , 2, 13	3.4	112

81	Brain changes after learning to read and play music. <i>NeuroImage</i> , 2003 , 20, 71-83	7.9	112
80	The mechanism of transcranial magnetic stimulation in cognition. <i>Cortex</i> , 2010 , 46, 128-30	3.8	110
79	Right parietal cortex plays a critical role in change blindness. <i>Cerebral Cortex</i> , 2006 , 16, 712-7	5.1	110
78	Timing of activity in early visual cortex as revealed by transcranial magnetic stimulation. <i>NeuroReport</i> , 1999 , 10, 2631-4	1.7	110
77	Effects of TMS over premotor and superior temporal cortices on biological motion perception. <i>Journal of Cognitive Neuroscience</i> , 2012 , 24, 896-904	3.1	99
76	Neural activation state determines behavioral susceptibility to modified theta burst transcranial magnetic stimulation. <i>European Journal of Neuroscience</i> , 2007 , 26, 523-8	3.5	90
75	Combined TMS and fMRI reveal dissociable cortical pathways for dynamic and static face perception. <i>Current Biology</i> , 2014 , 24, 2066-70	6.3	87
74	Interaction of numerosity and time in prefrontal and parietal cortex. <i>Journal of Neuroscience</i> , 2013 , 33, 883-93	6.6	83
73	Visual selection and posterior parietal cortex: effects of repetitive transcranial magnetic stimulation on partial report analyzed by Bundesen's theory of visual attention. <i>Journal of Neuroscience</i> , 2005 , 25, 9602-12	6.6	77
72	Encoding of temporal probabilities in the human brain. <i>Journal of Neuroscience</i> , 2010 , 30, 4343-52	6.6	75
71	The perceptual and functional consequences of parietal top-down modulation on the visual cortex. <i>Cerebral Cortex</i> , 2009 , 19, 327-30	5.1	72
70	Visual area V5/MT remembers "what" but not "where". <i>Cerebral Cortex</i> , 2006 , 16, 1766-70	5.1	71
69	Cortical plasticity in perceptual learning demonstrated by transcranial magnetic stimulation. <i>Neuropsychologia</i> , 1998 , 36, 45-9	3.2	70
68	The when-parietal pathway explored by lesion studies. <i>Current Opinion in Neurobiology</i> , 2008 , 18, 120-6	7.6	70
67	Cortical plasticity in perceptual learning demonstrated by transcranial magnetic stimulation. <i>Neuropsychologia</i> , 1998 , 36, 363-7	3.2	69
66	From magnitude to natural numbers: A developmental neurocognitive perspective. <i>Behavioral and Brain Sciences</i> , 2008 , 31, 647-648	0.9	68
65	Small is bright and big is dark in synaesthesia. <i>Current Biology</i> , 2007 , 17, R834-5	6.3	67
64	Two critical and functionally distinct stages of face and body perception. <i>Journal of Neuroscience</i> , 2012 , 32, 15877-85	6.6	65

63	Enhanced visual perception with occipital transcranial magnetic stimulation. <i>European Journal of Neuroscience</i> , 2011 , 34, 1320-5	3.5	64
62	Superior facial expression, but not identity recognition, in mirror-touch synesthesia. <i>Journal of Neuroscience</i> , 2011 , 31, 1820-4	6.6	64
61	Left frontal eye field remembers "where" but not "what". <i>Neuropsychologia</i> , 2007 , 45, 2340-5	3.2	63
60	Double dissociation of format-dependent and number-specific neurons in human parietal cortex. <i>Cerebral Cortex</i> , 2010 , 20, 2166-71	5.1	62
59	TMS over right posterior parietal cortex induces neglect in a scene-based frame of reference. <i>Neuropsychologia</i> , 2006 , 44, 1222-9	3.2	58
58	The right parietal cortex and time perception: back to Critchley and the Zeitraffer phenomenon. <i>Cognitive Neuropsychology</i> , 2005 , 22, 306-15	2.3	55
57	Synaesthesia: learned or lost?. <i>Developmental Science</i> , 2009 , 12, 484-91	4.5	53
56	The neural signature of phosphene perception. <i>Human Brain Mapping</i> , 2010 , 31, 1408-17	5.9	53
55	Combining TMS and EEG to study cognitive function and cortico-cortico interactions. <i>Behavioural Brain Research</i> , 2008 , 191, 141-7	3.4	51
54	The role of lateral occipital face and object areas in the face inversion effect. <i>Neuropsychologia</i> , 2011 , 49, 3448-53	3.2	50
53	Suppressing sensorimotor activity modulates the discrimination of auditory emotions but not speaker identity. <i>Journal of Neuroscience</i> , 2010 , 30, 13552-7	6.6	49
52	Neural basis of mathematical cognition. <i>Current Biology</i> , 2011 , 21, R618-21	6.3	45
51	The role of superior temporal cortex in auditory timing. <i>PLoS ONE</i> , 2008 , 3, e2481	3.7	44
50	Specialization in the human brain: the case of numbers. <i>Frontiers in Human Neuroscience</i> , 2011 , 5, 62	3.3	43
49	Human middle temporal cortex, perceptual bias, and perceptual memory for ambiguous three-dimensional motion. <i>Journal of Neuroscience</i> , 2010 , 30, 760-6	6.6	43
48	TMS-adaptation reveals abstract letter selectivity in the left posterior parietal cortex. <i>Cerebral Cortex</i> , 2009 , 19, 2321-5	5.1	40
47	The role of transcranial magnetic stimulation (TMS) in studies of vision, attention and cognition. <i>Acta Psychologica</i> , 2001 , 107, 275-91	1.7	38
46	Contribution of frontal cortex to the spatial representation of number. <i>Cortex</i> , 2011 , 47, 2-13	3.8	36

45	Human dorsolateral prefrontal cortex is involved in visual search for conjunctions but not features: a theta TMS study. <i>Cortex</i> , 2009 , 45, 1085-90	3.8	36
44	The parietal cortex in visual search: a visuomotor hypothesis. <i>Supplements To Clinical Neurophysiology</i> , 2003 , 56, 321-30		36
43	Evidence accumulation in the magnitude system. <i>PLoS ONE</i> , 2013 , 8, e82122	3.7	36
42	The role of human extra-striate visual areas V5/MT and V2/V3 in the perception of the direction of global motion: a transcranial magnetic stimulation study. <i>Experimental Brain Research</i> , 2006 , 171, 558-62 ²⁻³		35
41	Temporal dynamics of parietal cortex involvement in visual search. <i>Neuropsychologia</i> , 2006 , 44, 731-43	3.2	35
40	TMS of the right angular gyrus modulates priming of pop-out in visual search: combined TMS-ERP evidence. <i>Journal of Neurophysiology</i> , 2011 , 106, 3001-9	3.2	34
39	Investigating face-property specific processing in the right OFA. <i>Social Cognitive and Affective Neuroscience</i> , 2011 , 6, 58-65	4	34
38	A magnetic stimulation examination of orthographic neighborhood effects in visual word recognition. <i>Journal of Cognitive Neuroscience</i> , 2003 , 15, 354-63	3.1	34
37	Time: the back-door of perception. <i>Trends in Cognitive Sciences</i> , 2003 , 7, 335-338	14	34
36	Quantity without numbers and numbers without quantity in the parietal cortex. <i>NeuroImage</i> , 2009 , 46, 522-9	7.9	30
35	TMS over the intraparietal sulcus induces perceptual fading. <i>Journal of Neurophysiology</i> , 2008 , 100, 3343-50		29
34	The physiological effects of transcranial electrical stimulation do not apply to parameters commonly used in studies of cognitive neuromodulation. <i>Neuropsychologia</i> , 2019 , 128, 332-339	3.2	29
33	Does excitatory fronto-extracerebral tDCS lead to improved working memory performance?. <i>F1000Research</i> , 2013 , 2, 219	3.6	28
32	Direct current stimulation (tDCS) reveals parietal asymmetry in local/global and salience-based selection. <i>Cortex</i> , 2013 , 49, 850-60	3.8	27
31	Human frontal eye fields and spatial priming of pop-out. <i>Journal of Cognitive Neuroscience</i> , 2007 , 19, 1140-51	3.1	27
30	Inferior parietal rtms affects performance in an addition task. <i>Cortex</i> , 2006 , 42, 774-81	3.8	27
29	The effect of expectation on facilitation of colour/form conjunction tasks by TMS over area V5. <i>Neuropsychologia</i> , 2003 , 41, 1794-801	3.2	26
28	The time course of ventrolateral prefrontal cortex involvement in memory formation. <i>Journal of Neurophysiology</i> , 2010 , 103, 1569-79	3.2	25

27	Human frontal eye fields and target switching. <i>Cortex</i> , 2010 , 46, 178-84	3.8	24
26	Near space functioning of the human angular and supramarginal gyri. <i>Journal of Neuropsychology</i> , 2009 , 3, 31-43	2.6	23
25	Memory for time distinguishes between perception and action. <i>Perception</i> , 2010 , 39, 81-90	1.2	22
24	Plasticity revealed by transcranial magnetic stimulation of early visual cortex. <i>NeuroReport</i> , 2000 , 11, 1565-1569	1.7	22
23	Learning to integrate versus inhibiting information is modulated by age. <i>Journal of Neuroscience</i> , 2015 , 35, 2213-25	6.6	21
22	Does excitatory fronto-extracerebral tDCS lead to improved working memory performance?. <i>F1000Research</i> , 2013 , 2, 219	3.6	21
21	Transcranial Magnetic Stimulation 2002 , 255-290		20
20	Dyscalculia. <i>Current Biology</i> , 2007 , 17, R946-7	6.3	18
19	Transcranial electrical brain stimulation modulates neuronal tuning curves in perception of numerosity and duration. <i>NeuroImage</i> , 2014 , 102 Pt 2, 451-7	7.9	17
18	The cortical representation of centrally presented words: A magnetic stimulation study. <i>Visual Cognition</i> , 2003 , 10, 341-362	1.8	14
17	Chronostasis without voluntary action. <i>Experimental Brain Research</i> , 2005 , 161, 125-32	2.3	14
16	Transcranial Magnetic Stimulation and the Understanding of Behavior. <i>Annual Review of Psychology</i> , 2021 , 72, 97-121	26.1	14
15	Left insular cortex and left SFG underlie prismatic adaptation effects on time perception: evidence from fMRI. <i>NeuroImage</i> , 2014 , 92, 340-8	7.9	11
14	Magnetic stimulation studies of foveal representation. <i>Brain and Language</i> , 2004 , 88, 331-8	2.9	9
13	Time perception: components of the brain's clock. <i>Current Biology</i> , 2005 , 15, R389-91	6.3	9
12	Volunteer studies replacing animal experiments in brain research. <i>ATLA Alternatives To Laboratory Animals</i> , 2000 , 28, 315-31	2.1	9
11	Enhancing duration processing with parietal brain stimulation. <i>Neuropsychologia</i> , 2016 , 85, 272-7	3.2	9
10	The role of the left inferior frontal gyrus in episodic encoding of faces: An interference study by repetitive transcranial magnetic stimulation. <i>Cognitive Neuroscience</i> , 2010 , 1, 118-25	1.7	7

9	Numerical cognition: reading numbers from the brain. <i>Current Biology</i> , 2009 , 19, R898-9	6.3	6
8	Smaller magnets for smarter minds?. <i>Trends in Cognitive Sciences</i> , 2012 , 16, 452-3	14	3
7	Magnitudes, Metaphors, and Modalities 2013 ,		3
6	Non-abstract numerical representations in the IPS: Further support, challenges, and clarifications. <i>Behavioral and Brain Sciences</i> , 2009 , 32, 356-373	0.9	3
5	Transcranial Magnetic and Electric Stimulation in Perception and Cognition Research. <i>Frontiers in Neuroscience</i> , 2012 , 335-355		3
4	The visual system as target of non-invasive brain stimulation for migraine treatment: Current insights and future challenges. <i>Progress in Brain Research</i> , 2020 , 255, 207-247	2.9	2
3	Vision: the when of perception. <i>Current Biology</i> , 2002 , 12, R355-6	6.3	2
2	Visual perception: an orderly cue for consciousness. <i>Current Biology</i> , 2009 , 19, R1073-4	6.3	1
1	Polymathy: The Resurrection of Renaissance Man and the Renaissance Brain 528-539		