

Torkel Klingberg

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

85
papers

12,525
citations

42
h-index

90
g-index

90
ext. papers

13,882
ext. citations

6.1
avg. IF

6.81
L-index

#	Paper	IF	Citations
85	Computerized training of working memory in children with ADHD--a randomized, controlled trial. <i>Journal of the American Academy of Child and Adolescent Psychiatry</i> , 2005 , 44, 177-86	7.2	1347
84	Training and plasticity of working memory. <i>Trends in Cognitive Sciences</i> , 2010 , 14, 317-24	14	1095
83	Increased prefrontal and parietal activity after training of working memory. <i>Nature Neuroscience</i> , 2004 , 7, 75-9	25.5	981
82	Training of working memory in children with ADHD. <i>Journal of Clinical and Experimental Neuropsychology</i> , 2002 , 24, 781-91	2.1	727
81	Prefrontal cortex and basal ganglia control access to working memory. <i>Nature Neuroscience</i> , 2008 , 11, 103-7	25.5	718
80	Training and transfer effects of executive functions in preschool children. <i>Developmental Science</i> , 2009 , 12, 106-13	4.5	692
79	Microstructure of temporo-parietal white matter as a basis for reading ability: evidence from diffusion tensor magnetic resonance imaging. <i>Neuron</i> , 2000 , 25, 493-500	13.9	606
78	Maturation of white matter is associated with the development of cognitive functions during childhood. <i>Journal of Cognitive Neuroscience</i> , 2004 , 16, 1227-33	3.1	587
77	Increased brain activity in frontal and parietal cortex underlies the development of visuospatial working memory capacity during childhood. <i>Journal of Cognitive Neuroscience</i> , 2002 , 14, 1-10	3.1	572
76	Two different areas within the primary motor cortex of man. <i>Nature</i> , 1996 , 382, 805-7	50.4	521
75	Changes in cortical dopamine D1 receptor binding associated with cognitive training. <i>Science</i> , 2009 , 323, 800-2	33.3	414
74	Combined analysis of DTI and fMRI data reveals a joint maturation of white and grey matter in a fronto-parietal network. <i>Cognitive Brain Research</i> , 2003 , 18, 48-57		300
73	Development of a superior frontal-intraparietal network for visuo-spatial working memory. <i>Neuropsychologia</i> , 2006 , 44, 2171-7	3.2	263
72	The neuroscience of working memory capacity and training. <i>Nature Reviews Neuroscience</i> , 2016 , 17, 438-49	49.5	243
71	Mechanism for top-down control of working memory capacity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 6802-7	11.5	236
70	Changes in cortical activity after training of working memory--a single-subject analysis. <i>Physiology and Behavior</i> , 2007 , 92, 186-92	3.5	176
69	Gains in fluid intelligence after training non-verbal reasoning in 4-year-old children: a controlled, randomized study. <i>Developmental Science</i> , 2011 , 14, 591-601	4.5	166

68	Preterm children have disturbances of white matter at 11 years of age as shown by diffusion tensor imaging. <i>Pediatric Research</i> , 2003 , 54, 672-9	3.2	159
67	Visuo-spatial working memory span: a sensitive measure of cognitive deficits in children with ADHD. <i>Child Neuropsychology</i> , 2004 , 10, 155-61	2.7	152
66	Common and unique components of inhibition and working memory: an fMRI, within-subjects investigation. <i>Neuropsychologia</i> , 2008 , 46, 2668-82	3.2	149
65	Brain activity related to working memory and distraction in children and adults. <i>Cerebral Cortex</i> , 2007 , 17, 1047-54	5.1	133
64	Brain activity during a visuospatial working memory task predicts arithmetical performance 2 years later. <i>Cerebral Cortex</i> , 2012 , 22, 1078-85	5.1	132
63	The role of fronto-parietal and fronto-striatal networks in the development of working memory: a longitudinal study. <i>Cerebral Cortex</i> , 2015 , 25, 1587-95	5.1	131
62	Benefits of a working memory training program for inattention in daily life: a systematic review and meta-analysis. <i>PLoS ONE</i> , 2015 , 10, e0119522	3.7	124
61	Stratified medicine for mental disorders. <i>European Neuropsychopharmacology</i> , 2014 , 24, 5-50	1.2	121
60	Influence of the COMT genotype on working memory and brain activity changes during development. <i>Biological Psychiatry</i> , 2011 , 70, 222-9	7.9	119
59	Three dyslexia susceptibility genes, DYX1C1, DCDC2, and KIAA0319, affect temporo-parietal white matter structure. <i>Biological Psychiatry</i> , 2012 , 72, 671-6	7.9	114
58	Structural maturation and brain activity predict future working memory capacity during childhood development. <i>Journal of Neuroscience</i> , 2014 , 34, 1592-8	6.6	97
57	Improving Methodological Standards in Behavioral Interventions for Cognitive Enhancement. <i>Journal of Cognitive Enhancement: Towards the Integration of Theory and Practice</i> , 2019 , 3, 2-29	2.4	91
56	Stronger synaptic connectivity as a mechanism behind development of working memory-related brain activity during childhood. <i>Journal of Cognitive Neuroscience</i> , 2007 , 19, 750-60	3.1	90
55	Interference between two concurrent tasks is associated with activation of overlapping fields in the cortex. <i>Cognitive Brain Research</i> , 1997 , 6, 1-8		81
54	Effect of working memory training on working memory, arithmetic and following instructions. <i>Psychological Research</i> , 2014 , 78, 869-77	2.5	67
53	Computerized training of non-verbal reasoning and working memory in children with intellectual disability. <i>Frontiers in Human Neuroscience</i> , 2012 , 6, 271	3.3	66
52	Activity in motor areas while remembering action events. <i>NeuroReport</i> , 2000 , 11, 2199-201	1.7	64
51	Music practice is associated with development of working memory during childhood and adolescence. <i>Frontiers in Human Neuroscience</i> , 2014 , 7, 926	3.3	62

50	Activation of multi-modal cortical areas underlies short-term memory. <i>European Journal of Neuroscience</i> , 1996 , 8, 1965-71	3.5	60
49	Phonological working memory with auditory presentation of pseudo-words -- an event related fMRI Study. <i>Brain Research</i> , 2008 , 1212, 48-54	3.7	57
48	Polymorphisms in the dopamine receptor 2 gene region influence improvements during working memory training in children and adolescents. <i>Journal of Cognitive Neuroscience</i> , 2014 , 26, 54-62	3.1	52
47	The SNAP25 gene is linked to working memory capacity and maturation of the posterior cingulate cortex during childhood. <i>Biological Psychiatry</i> , 2010 , 68, 1120-5	7.9	51
46	Dopamine, working memory, and training induced plasticity: implications for developmental research. <i>Developmental Psychology</i> , 2012 , 48, 836-43	3.7	49
45	Limitations in information processing in the human brain: neuroimaging of dual task performance and working memory tasks. <i>Progress in Brain Research</i> , 2000 , 126, 95-102	2.9	45
44	Measuring working memory capacity with greater precision in the lower capacity ranges. <i>Developmental Neuropsychology</i> , 2010 , 35, 81-95	1.8	44
43	Neonatal MRI is associated with future cognition and academic achievement in preterm children. <i>Brain</i> , 2015 , 138, 3251-62	11.2	36
42	The dyslexia candidate locus on 2p12 is associated with general cognitive ability and white matter structure. <i>PLoS ONE</i> , 2012 , 7, e50321	3.7	34
41	DCDC2 polymorphism is associated with left temporoparietal gray and white matter structures during development. <i>Journal of Neuroscience</i> , 2014 , 34, 14455-62	6.6	32
40	Behavior and neuroimaging at baseline predict individual response to combined mathematical and working memory training in children. <i>Developmental Cognitive Neuroscience</i> , 2016 , 20, 43-51	5.5	31
39	Childhood cognitive development as a skill. <i>Trends in Cognitive Sciences</i> , 2014 , 18, 573-9	14	30
38	Cognitive and brain development is independently influenced by socioeconomic status and polygenic scores for educational attainment. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 12411-12418	11.5	27
37	Diffusion tensor imaging on teenagers, born at term with moderate hypoxic-ischemic encephalopathy. <i>Pediatric Research</i> , 2005 , 58, 936-40	3.2	27
36	Working Memory Training in Alcohol Use Disorder: A Randomized Controlled Trial. <i>Alcoholism: Clinical and Experimental Research</i> , 2019 , 43, 135-146	3.7	27
35	DRD2/ANKK1 polymorphism modulates the effect of ventral striatal activation on working memory performance. <i>Neuropsychopharmacology</i> , 2014 , 39, 2357-65	8.7	26
34	Quantitative susceptibility mapping of striatum in children and adults, and its association with working memory performance. <i>NeuroImage</i> , 2016 , 136, 208-14	7.9	25
33	CTNND2-a candidate gene for reading problems and mild intellectual disability. <i>Journal of Medical Genetics</i> , 2015 , 52, 111-22	5.8	24

32	Visual working memory influences the performance in virtual image-guided surgical intervention. <i>Surgical Endoscopy and Other Interventional Techniques</i> , 2007 , 21, 2044-50	5.2	24
31	Is working memory capacity fixed?. <i>Journal of Applied Research in Memory and Cognition</i> , 2012 , 1, 194-196.	3	22
30	Grit Is Associated with Structure of Nucleus Accumbens and Gains in Cognitive Training. <i>Journal of Cognitive Neuroscience</i> , 2016 , 28, 1688-1699	3.1	16
29	Mutation in CEP63 co-segregating with developmental dyslexia in a Swedish family. <i>Human Genetics</i> , 2015 , 134, 1239-48	6.3	15
28	Fronto-parietal connection asymmetry regulates working memory distractibility. <i>Journal of Integrative Neuroscience</i> , 2007 , 6, 567-96	1.5	15
27	Identification of NCAN as a candidate gene for developmental dyslexia. <i>Scientific Reports</i> , 2017 , 7, 9294	4.9	14
26	Short and long-term effects of a mathematics tablet intervention for low performing second graders.. <i>Journal of Educational Psychology</i> , 2018 , 110, 1127-1148	5.3	13
25	Training spatial cognition enhances mathematical learning in a randomized study of 17,000 children. <i>Nature Human Behaviour</i> , 2021 , 5, 1548-1554	12.8	13
24	Transcranial Electric Stimulation Can Impair Gains during Working Memory Training and Affects the Resting State Connectivity. <i>Frontiers in Human Neuroscience</i> , 2017 , 11, 364	3.3	12
23	Trade-off between capacity and precision in visuospatial working memory. <i>Journal of Cognitive Neuroscience</i> , 2014 , 26, 211-22	3.1	12
22	Neuronal firing rates account for distractor effects on mnemonic accuracy in a visuo-spatial working memory task. <i>Biological Cybernetics</i> , 2007 , 96, 407-19	2.8	12
21	No Long-Term Effect of Physical Activity Intervention on Working Memory or Arithmetic in Preadolescents. <i>Frontiers in Psychology</i> , 2017 , 8, 1342	3.4	10
20	Specialization of the Right Intraparietal Sulcus for Processing Mathematics During Development. <i>Cerebral Cortex</i> , 2017 , 27, 4436-4446	5.1	9
19	Working memory remediation and the D1 receptor. <i>American Journal of Psychiatry</i> , 2009 , 166, 515-6	11.9	8
18	Visuo-Spatial Working Memory Span: A Sensitive Measure of Cognitive Deficits in Children With ADHD. <i>Child Neuropsychology</i> , 2004 , 10, 155-161	2.7	6
17	Neural basis of cognitive training and development. <i>Current Opinion in Behavioral Sciences</i> , 2016 , 10, 97-101	4	6
16	Connectivity of the Human Number Form Area Reveals Development of a Cortical Network for Mathematics. <i>Frontiers in Human Neuroscience</i> , 2018 , 12, 465	3.3	5
15	Human ROBO1 regulates white matter structure in corpus callosum. <i>Brain Structure and Function</i> , 2017 , 222, 707-716	4	4

14	Cortical surface area of the left frontal pole is associated with visuospatial working memory capacity. <i>Neuropsychologia</i> , 2020 , 143, 107486	3.2	3
13	Functional differentiation between convergence and non-convergence zones of the striatum in children. <i>NeuroImage</i> , 2018 , 173, 384-393	7.9	3
12	Timing of White Matter Development Determines Cognitive Abilities at School Entry but Not in Late Adolescence. <i>Cerebral Cortex</i> , 2017 , 27, 4516-4522	5.1	3
11	Working memory and image guided surgical simulation. <i>Studies in Health Technology and Informatics</i> , 2006 , 119, 188-93	0.5	3
10	Working Memory Training 2017 , 491-512		2
9	Training Working Memory. <i>The ADHD Report</i> , 2006 , 14, 6-8	1.4	2
8	The impact of digital media on children's intelligence while controlling for genetic differences in cognition and socioeconomic background.. <i>Scientific Reports</i> , 2022 , 12, 7720	4.9	2
7	Inter-Individual Differences in Striatal Connectivity Is Related to Executive Function Through Fronto-Parietal Connectivity. <i>Cerebral Cortex</i> , 2020 , 30, 672-681	5.1	1
6	Change by challenge: A common genetic basis behind childhood cognitive development and cognitive training. <i>Npj Science of Learning</i> , 2021 , 6, 16	6	1
5	Assessing the impact of environmental factors on the adolescent brain: the importance of regional analyses and genetic controls.. <i>World Psychiatry</i> , 2022 , 21, 146-147	14.4	0
4	Structural variation within the left globus pallidus is associated with task-switching, not stimulus updating or distractor filtering. <i>Cognitive Neuroscience</i> , 2020 , 11, 229-238	1.7	0
3	Working memory capacity, variability, and response to intervention at age 6 and its association to inattention and mathematics age 9. <i>Cognitive Development</i> , 2021 , 58, 101013	1.7	0
2	Resting State EEG Related to Mathematical Improvement After Spatial Training in Children. <i>Frontiers in Human Neuroscience</i> , 2021 , 15, 698367	3.3	0
1	Working Memory Training 2022 , 606-622		