

Yu-Kai Chang

List of Publications by Citations

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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.

117 papers	4,185 citations	32 h-index	61 g-index
132 ext. papers	5,339 ext. citations	3.8 avg, IF	5.87 L-index

#	Paper	IF	Citations
117	The effects of acute exercise on cognitive performance: a meta-analysis. <i>Brain Research</i> , 2012 , 1453, 87-101	3.7	952
116	Effects of physical activity interventions on cognitive and academic performance in children and adolescents: a novel combination of a systematic review and recommendations from an expert panel. <i>British Journal of Sports Medicine</i> , 2019 , 53, 640-647	10.3	176
115	The effect of physical activity on executive function: a brief commentary on definitions, measurement issues, and the current state of the literature. <i>Journal of Sport and Exercise Psychology</i> , 2009 , 31, 469-83	1.5	175
114	Effect of acute exercise on executive function in children with attention deficit hyperactivity disorder. <i>Archives of Clinical Neuropsychology</i> , 2012 , 27, 225-37	2.7	128
113	Exploring the dose-response relationship between resistance exercise intensity and cognitive function. <i>Journal of Sport and Exercise Psychology</i> , 2009 , 31, 640-56	1.5	118
112	The impacts of coordinative exercise on executive function in kindergarten children: an ERP study. <i>Experimental Brain Research</i> , 2013 , 225, 187-96	2.3	113
111	Effects of acute resistance exercise on cognition in late middle-aged adults: general or specific cognitive improvement?. <i>Journal of Science and Medicine in Sport</i> , 2014 , 17, 51-5	4.4	87
110	Dose-response relation between exercise duration and cognition. <i>Medicine and Science in Sports and Exercise</i> , 2015 , 47, 159-65	1.2	76
109	The immediate and delayed effects of an acute bout of exercise on cognitive performance of healthy older adults. <i>Journal of Aging and Physical Activity</i> , 2010 , 18, 87-98	1.6	76
108	Effects of an acute bout of localized resistance exercise on cognitive performance in middle-aged adults: A randomized controlled trial study. <i>Psychology of Sport and Exercise</i> , 2009 , 10, 19-24	4.2	71
107	Effects of acute aerobic exercise on multiple aspects of executive function in preadolescent children. <i>Psychology of Sport and Exercise</i> , 2014 , 15, 627-636	4.2	70
106	Acute aerobic exercise increases cortical activity during working memory: a functional MRI study in female college students. <i>PLoS ONE</i> , 2014 , 9, e99222	3.7	69
105	Effects of acute exercise on executive function: a study with a Tower of London Task. <i>Journal of Sport and Exercise Psychology</i> , 2011 , 33, 847-65	1.5	69
104	Effects of an aquatic exercise program on inhibitory control in children with ADHD: a preliminary study. <i>Archives of Clinical Neuropsychology</i> , 2014 , 29, 217-23	2.7	66
103	Effect of acute aerobic exercise on cognitive performance: Role of cardiovascular fitness. <i>Psychology of Sport and Exercise</i> , 2014 , 15, 464-470	4.2	57
102	Exercise mode and executive function in older adults: an ERP study of task-switching. <i>Brain and Cognition</i> , 2013 , 83, 153-62	2.7	57
101	Acute exercise ameliorates craving and inhibitory deficits in methamphetamine: An ERP study. <i>Physiology and Behavior</i> , 2015 , 147, 38-46	3.5	55

100	Dose-response relationships between exercise intensity, cravings, and inhibitory control in methamphetamine dependence: An ERPs study. <i>Drug and Alcohol Dependence</i> , 2016 , 161, 331-9	4.9	55
99	Effect of acute exercise and cardiovascular fitness on cognitive function: an event-related cortical desynchronization study. <i>Psychophysiology</i> , 2015 , 52, 342-51	4.1	53
98	Physical activity and working memory in healthy older adults: an ERP study. <i>Psychophysiology</i> , 2013 , 50, 1174-82	4.1	46
97	Interaction of athletes' resilience and coaches' social support on the stress-burnout relationship: A conjunctive moderation perspective. <i>Psychology of Sport and Exercise</i> , 2016 , 22, 202-209	4.2	44
96	Effects of Exercise Training Interventions on Executive Function in Older Adults: A Systematic Review and Meta-Analysis. <i>Sports Medicine</i> , 2020 , 50, 1451-1467	10.6	42
95	Acute exercise has a general facilitative effect on cognitive function: A combined ERP temporal dynamics and BDNF study. <i>Psychophysiology</i> , 2017 , 54, 289-300	4.1	41
94	The benefits of endurance exercise and Tai Chi Chuan for the task-switching aspect of executive function in older adults: an ERP study. <i>Frontiers in Aging Neuroscience</i> , 2014 , 6, 295	5.3	41
93	Antecedent acute cycling exercise affects attention control: an ERP study using attention network test. <i>Frontiers in Human Neuroscience</i> , 2015 , 9, 156	3.3	38
92	Neurophysiological and behavioral correlates of cognitive control during low and moderate intensity exercise. <i>NeuroImage</i> , 2016 , 131, 171-80	7.9	36
91	Relationship between mode of sport training and general cognitive performance. <i>Journal of Sport and Health Science</i> , 2017 , 6, 89-95	8.2	36
90	Expert-novice differences in SMR activity during dart throwing. <i>Biological Psychology</i> , 2015 , 110, 212-8	3.2	34
89	The neurophysiological performance of visuospatial working memory in children with developmental coordination disorder. <i>Developmental Medicine and Child Neurology</i> , 2012 , 54, 1114-20	3.3	34
88	Acute Physical Activity Enhances Executive Functions in Children with ADHD. <i>Scientific Reports</i> , 2018 , 8, 12382	4.9	33
87	Sensorimotor Rhythm Neurofeedback Enhances Golf Putting Performance. <i>Journal of Sport and Exercise Psychology</i> , 2015 , 37, 626-36	1.5	32
86	Effects of acute resistance exercise on late-middle-age adults' goal planning. <i>Medicine and Science in Sports and Exercise</i> , 2012 , 44, 1773-9	1.2	32
85	Effects of Yoga on Heart Rate Variability and Depressive Symptoms in Women: A Randomized Controlled Trial. <i>Journal of Alternative and Complementary Medicine</i> , 2017 , 23, 310-316	2.4	30
84	The immediate and sustained effects of acute exercise on planning aspect of executive function. <i>Psychology of Sport and Exercise</i> , 2013 , 14, 728-736	4.2	30
83	A 3-month intervention of Dance Dance Revolution improves interference control in elderly females: a preliminary investigation. <i>Experimental Brain Research</i> , 2015 , 233, 1181-8	2.3	29

82	Combined Effects of Physical Activity and Obesity on Cognitive Function: Independent, Overlapping, Moderator, and Mediator Models. <i>Sports Medicine</i> , 2017 , 47, 449-468	10.6	29
81	Executive function during acute exercise: the role of exercise intensity. <i>Journal of Sport and Exercise Psychology</i> , 2013 , 35, 358-67	1.5	29
80	Dose-response effect of acute resistance exercise on Tower of London in middle-aged adults. <i>Journal of Sport and Exercise Psychology</i> , 2011 , 33, 866-83	1.5	29
79	Task-Switching Performance Improvements After Tai Chi Chuan Training Are Associated With Greater Prefrontal Activation in Older Adults. <i>Frontiers in Aging Neuroscience</i> , 2018 , 10, 280	5.3	29
78	Effects of acute aerobic exercise on motor response inhibition: An ERP study using the stop-signal task. <i>Journal of Sport and Health Science</i> , 2015 , 4, 73-81	8.2	28
77	Effects of acute aerobic exercise on response preparation in a Go/No Go Task in children with ADHD: An ERP study. <i>Journal of Sport and Health Science</i> , 2015 , 4, 82-88	8.2	28
76	The effects of acute resistance exercise on young and older males' working memory. <i>Psychology of Sport and Exercise</i> , 2016 , 22, 286-293	4.2	27
75	Neuroelectric and Behavioral Effects of Acute Exercise on Task Switching in Children with Attention-Deficit/Hyperactivity Disorder. <i>Frontiers in Psychology</i> , 2016 , 7, 1589	3.4	27
74	Tai Ji Quan, the brain, and cognition in older adults. <i>Journal of Sport and Health Science</i> , 2014 , 3, 36-42	8.2	26
73	Type of physical exercise and inhibitory function in older adults: An event-related potential study. <i>Psychology of Sport and Exercise</i> , 2014 , 15, 205-211	4.2	25
72	Aerobic exercise training ameliorates craving and inhibitory control in methamphetamine dependencies: A randomized controlled trial and event-related potential study. <i>Psychology of Sport and Exercise</i> , 2017 , 30, 82-90	4.2	24
71	Effects of cardiorespiratory fitness enhancement on deficits in visuospatial working memory in children with developmental coordination disorder: a cognitive electrophysiological study. <i>Archives of Clinical Neuropsychology</i> , 2014 , 29, 173-85	2.7	24
70	Mental toughness in sport: a review and prospect. <i>International Journal of Sport and Exercise Psychology</i> , 2012 , 10, 79-92	2.5	24
69	Quality of Life Assessment for Physical Activity and Health Promotion. <i>Applied Research in Quality of Life</i> , 2011 , 6, 181-200	2.3	24
68	Exercise and fitness modulate cognitive function in older adults. <i>Psychology and Aging</i> , 2015 , 30, 842-8	3.6	23
67	Acute exercise is associated with specific executive functions in college students with ADHD: A preliminary study. <i>Journal of Sport and Health Science</i> , 2015 , 4, 89-96	8.2	23
66	A systematic review of physical activity and cardiorespiratory fitness on P3b. <i>Psychophysiology</i> , 2020 , 57, e13425	4.1	23
65	Acute Exercise Facilitates the N450 Inhibition Marker and P3 Attention Marker during Stroop Test in Young and Older Adults. <i>Journal of Clinical Medicine</i> , 2018 , 7,	5.1	23

64	Effects of Childhood Gymnastics Program on Spatial Working Memory. <i>Medicine and Science in Sports and Exercise</i> , 2017 , 49, 2537-2547	1.2	22
63	Effects of Physical Activity Intervention on Motor Proficiency and Physical Fitness in Children With ADHD: An Exploratory Study. <i>Journal of Attention Disorders</i> , 2017 , 21, 783-795	3.7	21
62	Motor ability and inhibitory processes in children with ADHD: a neuroelectric study. <i>Journal of Sport and Exercise Psychology</i> , 2013 , 35, 322-8	1.5	21
61	Exploring the relationship between exercise-induced arousal and cognition using fractionated response time. <i>Research Quarterly for Exercise and Sport</i> , 2009 , 80, 78-86	1.9	20
60	Effect of Autonomy Support on Self-Determined Motivation in Elementary Physical Education. <i>Journal of Sports Science and Medicine</i> , 2016 , 15, 460-466	2.7	20
59	Health-related physical fitness, academic achievement, and neuroelectric measures in children and adolescents. <i>International Journal of Sport and Exercise Psychology</i> , 2019 , 17, 117-132	2.5	19
58	The Effect of Exercise Training on Brain Structure and Function in Older Adults: A Systematic Review Based on Evidence from Randomized Control Trials. <i>Journal of Clinical Medicine</i> , 2020 , 9,	5.1	17
57	Sports training enhances visuo-spatial cognition regardless of open-closed typology. <i>PeerJ</i> , 2017 , 5, e3336	3.6	17
56	Self-talk and softball performance: The role of self-talk nature, motor task characteristics, and self-efficacy in novice softball players. <i>Psychology of Sport and Exercise</i> , 2014 , 15, 139-145	4.2	17
55	Deficits of visuospatial attention with reflexive orienting induced by eye-gazed cues in children with developmental coordination disorder in the lower extremities: an event-related potential study. <i>Research in Developmental Disabilities</i> , 2010 , 31, 642-55	2.7	17
54	Sleep quality mediates the relationship between work-family conflicts and the self-perceived health status among hospital nurses. <i>Journal of Nursing Management</i> , 2019 , 27, 381-387	4.9	17
53	Dose-Response Relationship between Exercise Duration and Executive Function in Older Adults. <i>Journal of Clinical Medicine</i> , 2018 , 7,	5.1	17
52	Effects of acute aerobic and resistance exercise on executive function: An ERP study. <i>Journal of Science and Medicine in Sport</i> , 2019 , 22, 1367-1372	4.4	15
51	Acute Exercise and Neurocognitive Development in Preadolescents and Young Adults: An ERP Study. <i>Neural Plasticity</i> , 2017 , 2017, 2631909	3.3	15
50	Effects of a physical activity intervention on autonomic and executive functions in obese young adolescents: A randomized controlled trial. <i>Health Psychology</i> , 2016 , 35, 1120-5	5	15
49	Tai Chi Chuan modulates heart rate variability during abdominal breathing in elderly adults. <i>PsyCh Journal</i> , 2016 , 5, 69-77	1.4	15
48	Failure to identify an acute exercise effect on executive function assessed by the Wisconsin Card Sorting Test. <i>Journal of Sport and Health Science</i> , 2015 , 4, 64-72	8.2	15
47	Obesity, Cardiovascular Fitness, and Inhibition Function: An Electrophysiological Study. <i>Frontiers in Psychology</i> , 2016 , 7, 1124	3.4	15

46	A randomized controlled trial of coordination exercise on cognitive function in obese adolescents. <i>Psychology of Sport and Exercise</i> , 2018 , 34, 29-38	4.2	14
45	Systematic review of the acute and chronic effects of high-intensity interval training on executive function across the lifespan. <i>Journal of Sports Sciences</i> , 2021 , 39, 10-22	3.6	14
44	Effects of Acute Exercise Duration on the Inhibition Aspect of Executive Function in Late Middle-Aged Adults. <i>Frontiers in Aging Neuroscience</i> , 2019 , 11, 227	5.3	13
43	Effects of Yoga on Heart Rate Variability and Mood in Women: A Randomized Controlled Trial. <i>Journal of Alternative and Complementary Medicine</i> , 2015 , 21, 789-95	2.4	13
42	Cardiorespiratory Fitness Is Associated with Executive Control in Late-Middle-Aged Adults: An Event-Related (De) Synchronization (ERD/ERS) Study. <i>Frontiers in Psychology</i> , 2016 , 7, 1135	3.4	13
41	Effects of Acute Exercise on Resting EEG in Children with Attention-Deficit/Hyperactivity Disorder. <i>Child Psychiatry and Human Development</i> , 2018 , 49, 993-1002	3.3	12
40	A Preliminary Examination of Aerobic Exercise Effects on Resting EEG in Children With ADHD. <i>Journal of Attention Disorders</i> , 2017 , 21, 898-903	3.7	12
39	Exercise Behavior and Mood during the COVID-19 Pandemic in Taiwan: Lessons for the Future. <i>International Journal of Environmental Research and Public Health</i> , 2020 , 17,	4.6	12
38	Brain Functional Specialization Is Enhanced Among Tai Chi Chuan Practitioners. <i>Archives of Physical Medicine and Rehabilitation</i> , 2020 , 101, 1176-1182	2.8	11
37	Differences in working memory as a function of physical activity in children. <i>Neuropsychology</i> , 2018 , 32, 797-808	3.8	10
36	Exercise Modality Is Differentially Associated with Neurocognition in Older Adults. <i>Neural Plasticity</i> , 2017 , 2017, 3480413	3.3	9
35	The relationship between physical fitness and inhibitory ability in children with attention deficit hyperactivity disorder: An event-related potential study. <i>Psychology of Sport and Exercise</i> , 2017 , 31, 149-157	4.57	8
34	How the 2018 US Physical Activity Guidelines are a Call to Promote and Better Understand Acute Physical Activity for Cognitive Function Gains. <i>Sports Medicine</i> , 2019 , 49, 1625-1627	10.6	8
33	Structural differences in basal ganglia of elite running versus martial arts athletes: a diffusion tensor imaging study. <i>Experimental Brain Research</i> , 2015 , 233, 2239-48	2.3	8
32	Acute Resistance Exercise Facilitates Attention Control in Adult Males without an Age-Moderating Effect. <i>Journal of Sport and Exercise Psychology</i> , 2016 , 38, 247-254	1.5	8
31	The Effect of Acute High-Intensity Interval Training on Executive Function: A Systematic Review. <i>International Journal of Environmental Research and Public Health</i> , 2021 , 18,	4.6	8
30	Effects of Exercise Modes on Neural Processing of Working Memory in Late Middle-Aged Adults: An fMRI Study. <i>Frontiers in Aging Neuroscience</i> , 2019 , 11, 224	5.3	7
29	Exercise and dietary program-induced weight reduction is associated with cognitive function among obese adolescents: a longitudinal study. <i>PeerJ</i> , 2017 , 5, e3286	3.1	7

28	Influence of internet addiction on executive function and learning attention in Taiwanese school-aged children. <i>Perspectives in Psychiatric Care</i> , 2018 , 54, 495-500	2.2	7
27	Experts' successful psychomotor performance was characterized by effective switch of motor and attentional control. <i>Psychology of Sport and Exercise</i> , 2019 , 43, 374-379	4.2	6
26	Cardiorespiratory Fitness, Age, and Multiple Aspects of Executive Function Among Preadolescent Children. <i>Frontiers in Psychology</i> , 2020 , 11, 1198	3.4	6
25	The effects of negative air ions on cognitive function: an event-related potential (ERP) study. <i>International Journal of Biometeorology</i> , 2019 , 63, 1309-1317	3.7	6
24	Mindfulness Training Enhances Endurance Performance and Executive Functions in Athletes: An Event-Related Potential Study. <i>Neural Plasticity</i> , 2020 , 2020, 8213710	3.3	5
23	Effects of Chinese Mind-Body Exercises on Executive Function in Middle-Aged and Older Adults: A Systematic Review and Meta-Analysis. <i>Frontiers in Psychology</i> , 2021 , 12, 656141	3.4	5
22	Effects of Brain Breaks Videos on the Motives for the Physical Activity of Malaysians with Type-2 Diabetes Mellitus. <i>International Journal of Environmental Research and Public Health</i> , 2020 , 17,	4.6	5
21	Acute High-Intensity Interval Exercise Improves Inhibitory Control Among Young Adult Males With Obesity. <i>Frontiers in Psychology</i> , 2020 , 11, 1291	3.4	4
20	The association between physical fitness parameters and white matter microstructure in older adults: A diffusion tensor imaging study. <i>Psychophysiology</i> , 2020 , 57, e13539	4.1	4
19	Up-regulation of proactive control is associated with beneficial effects of a childhood gymnastics program on response preparation and working memory. <i>Brain and Cognition</i> , 2021 , 149, 105695	2.7	4
18	Acute Aerobic Exercise Ameliorates Cravings and Inhibitory Control in Heroin Addicts: Evidence From Event-Related Potentials and Frequency Bands. <i>Frontiers in Psychology</i> , 2020 , 11, 561590	3.4	3
17	Effects of Parental Education on Screen Time, Sleep Disturbances, and Psychosocial Adaptation Among Asian Preschoolers: A Randomized Controlled Study. <i>Journal of Pediatric Nursing</i> , 2021 , 56, e27-e34	2.2	3
16	Acute coordinative exercise ameliorates general and food-cue related cognitive function in obese adolescents. <i>Journal of Sports Sciences</i> , 2020 , 38, 953-960	3.6	2
15	Staying Active under Restrictions: Changes in Type of Physical Exercise during the Initial COVID-19 Lockdown. <i>International Journal of Environmental Research and Public Health</i> , 2021 , 18,	4.6	2
14	Affective Responses during High-Intensity Interval Exercise Compared with Moderate-Intensity Continuous Exercise in Inactive Women. <i>International Journal of Environmental Research and Public Health</i> , 2021 , 18,	4.6	2
13	Chronic Exercise and Cognitive Function 2020 , 795-814		1
12	Effects of a Group-Based Aerobic Exercise Program on the Cognitive Functions and Emotions of Substance Use Disorder Patients: a Randomized Controlled Trial. <i>International Journal of Mental Health and Addiction</i> , ¹	8.8	1
11	Conducting exercise trials for obese adolescents within the effectiveness setting: A response with commentary to Ejima et al. (2019). <i>Psychology of Sport and Exercise</i> , 2020 , 46, 101605	4.2	1

10	Effects of Brain Breaks Video Intervention of Decisional Balance among Malaysians with Type 2 Diabetes Mellitus: A Randomised Controlled Trial. <i>International Journal of Environmental Research and Public Health</i> , 2021 , 18,	4.6	1
9	Reply to: Comment on: "Effects of Exercise Training Interventions on Executive Function in Older Adults: A Systematic Review and Meta-Analysis". <i>Sports Medicine</i> , 2021 , 51, 597-598	10.6	0
8	Integrity of the Prefronto-striato-thalamo-prefrontal Loop Predicts Tai Chi Chuan Training Effects on Cognitive Task-switching in Middle-aged and Older Adults. <i>Frontiers in Aging Neuroscience</i> , 2020 , 12, 602191	5.3	0
7	Cardiorespiratory fitness is associated with sustained neurocognitive function during a prolonged inhibitory control task in young adults: An ERP study.. <i>Psychophysiology</i> , 2022 , e14086	4.1	0
6	Response. <i>Experimental Brain Research</i> , 2014 , 232, 2047-8	2.3	
5	Evaluation of microvasculature at the auditory midbrain--the benefits of sectioning at a tangential angle. <i>Microscopy Research and Technique</i> , 2015 , 78, 105-10	2.8	
4	A Muscle's Functional Role Influences the Effect of Eccentric Exercise on Arm Movement Kinematics. <i>Medicine and Science in Sports and Exercise</i> , 2010 , 42, 404	1.2	
3	The Effects of Mindfulness-Based Intervention on Shooting Performance and Cognitive Functions in Archers. <i>Frontiers in Psychology</i> , 2021 , 12, 661961	3.4	
2	Resting Theta/Beta Ratios Mediate the Relationship Between Motor Competence and Inhibition in Children With Attention Deficit/Hyperactivity Disorder. <i>Frontiers in Psychology</i> , 2021 , 12, 649154	3.4	
1	Structural equation model of psychological constructs of transtheoretical model, motives for physical activity, and amount of physical activity among people with type 2 diabetes mellitus in Malaysia.. <i>PLoS ONE</i> , 2022 , 17, e0266104	3.7	