

Yu-Kai Chang

List of Publications by Year in descending order

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Version: 2024-02-01

126
papers

6,327
citations

87723

38
h-index

82410

72
g-index

132
all docs

132
docs citations

132
times ranked

4885
citing authors

#	ARTICLE	IF	CITATIONS
1	The effects of acute exercise on cognitive performance: A meta-analysis. <i>Brain Research</i> , 2012, 1453, 87-101.	1.1	1,303
2	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.	3.1	287
3	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, 469-483.	0.7	216
4	Effect of Acute Exercise on Executive Function in Children with Attention Deficit Hyperactivity Disorder. <i>Archives of Clinical Neuropsychology</i> , 2012, 27, 225-237.	0.3	175
5	Exploring the Dose-Response Relationship between Resistance Exercise Intensity and Cognitive Function. <i>Journal of Sport and Exercise Psychology</i> , 2009, 31, 640-656.	0.7	158
6	The impacts of coordinative exercise on executive function in kindergarten children: an ERP study. <i>Experimental Brain Research</i> , 2013, 225, 187-196.	0.7	145
7	Dose-Response Relation between Exercise Duration and Cognition. <i>Medicine and Science in Sports and Exercise</i> , 2015, 47, 159-165.	0.2	117
8	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, 51-55.	0.6	113
9	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.	3.1	110
10	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.	1.1	105
11	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.	0.5	94
12	Effects of an Aquatic Exercise Program on Inhibitory Control in Children with ADHD: A Preliminary Study. <i>Archives of Clinical Neuropsychology</i> , 2014, 29, 217-223.	0.3	92
13	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, 847-865.	0.7	90
14	Acute Aerobic Exercise Increases Cortical Activity during Working Memory: A Functional MRI Study in Female College Students. <i>PLoS ONE</i> , 2014, 9, e99222.	1.1	90
15	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.	1.1	89
16	Dose-response relationships between exercise intensity, cravings, and inhibitory control in methamphetamine dependence: An ERPs study. <i>Drug and Alcohol Dependence</i> , 2016, 161, 331-339.	1.6	82
17	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.	1.1	82
18	Effect of acute aerobic exercise on cognitive performance: Role of cardiovascular fitness. <i>Psychology of Sport and Exercise</i> , 2014, 15, 464-470.	1.1	81

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19	Effect of acute exercise and cardiovascular fitness on cognitive function: An event-related cortical desynchronization study. <i>Psychophysiology</i> , 2015, 52, 342-351.	1.2	78
20	Acute exercise ameliorates craving and inhibitory deficits in methamphetamine: An ERP study. <i>Physiology and Behavior</i> , 2015, 147, 38-46.	1.0	76
21	Exercise mode and executive function in older adults: An ERP study of task-switching. <i>Brain and Cognition</i> , 2013, 83, 153-162.	0.8	75
22	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.	1.2	72
23	Acute Physical Activity Enhances Executive Functions in Children with ADHD. <i>Scientific Reports</i> , 2018, 8, 12382.	1.6	72
24	Physical activity and working memory in healthy older adults: An ERP study. <i>Psychophysiology</i> , 2013, 50, 1174-1182.	1.2	65
25	A systematic review of physical activity and cardiorespiratory fitness on P3b. <i>Psychophysiology</i> , 2020, 57, e13425.	1.2	62
26	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.	1.7	61
27	Sensorimotor Rhythm Neurofeedback Enhances Golf Putting Performance. <i>Journal of Sport and Exercise Psychology</i> , 2015, 37, 626-636.	0.7	56
28	Relationship between mode of sport training and general cognitive performance. <i>Journal of Sport and Health Science</i> , 2017, 6, 89-95.	3.3	52
29	Antecedent acute cycling exercise affects attention control: an ERP study using attention network test. <i>Frontiers in Human Neuroscience</i> , 2015, 9, 156.	1.0	51
30	Neurophysiological and behavioral correlates of cognitive control during low and moderate intensity exercise. <i>NeuroImage</i> , 2016, 131, 171-180.	2.1	50
31	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, 914.	1.0	50
32	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.	3.3	48
33	Expert-novice differences in SMR activity during dart throwing. <i>Biological Psychology</i> , 2015, 110, 212-218.	1.1	48
34	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.	2.1	48
35	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.	3.3	47
36	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.	1.0	46

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37	Effects of Acute Resistance Exercise on Late-Middle-Age Adults's Goal Planning. <i>Medicine and Science in Sports and Exercise</i> , 2012, 44, 1773-1779.	0.2	45
38	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.	1.1	45
39	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, 391.	1.0	45
40	Executive Function During Acute Exercise: The Role of Exercise Intensity. <i>Journal of Sport and Exercise Psychology</i> , 2013, 35, 358-367.	0.7	44
41	A 3-month intervention of Dance Dance Revolution improves interference control in elderly females: a preliminary investigation. <i>Experimental Brain Research</i> , 2015, 233, 1181-1188.	0.7	42
42	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.	1.1	42
43	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.	1.7	42
44	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.	0.6	41
45	The neurophysiological performance of visuospatial working memory in children with developmental coordination disorder. <i>Developmental Medicine and Child Neurology</i> , 2012, 54, 1114-1120.	1.1	40
46	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, 866-883.	0.7	39
47	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.	1.1	39
48	Exercise and fitness modulate cognitive function in older adults.. <i>Psychology and Aging</i> , 2015, 30, 842-848.	1.4	39
49	Tai Ji Quan, the brain, and cognition in older adults. <i>Journal of Sport and Health Science</i> , 2014, 3, 36-42.	3.3	38
50	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.	3.3	38
51	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.	1.5	37
52	Effects of Childhood Gymnastics Program on Spatial Working Memory. <i>Medicine and Science in Sports and Exercise</i> , 2017, 49, 2537-2547.	0.2	36
53	Combined Effects of Physical Activity and Obesity on Cognitive Function: Independent, Overlapping, Moderator, and Mediator Models. <i>Sports Medicine</i> , 2017, 47, 449-468.	3.1	36
54	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.	1.1	35

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55	The effects of acute resistance exercise on young and older males' working memory. <i>Psychology of Sport and Exercise</i> , 2016, 22, 286-293.	1.1	35
56	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, 3593.	1.2	35
57	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.	1.7	34
58	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, 173-185.	0.3	33
59	Sports training enhances visuo-spatial cognition regardless of open-closed typology. <i>PeerJ</i> , 2017, 5, e3336.	0.9	33
60	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.	1.1	32
61	Mindfulness Training Enhances Endurance Performance and Executive Functions in Athletes: An Event-Related Potential Study. <i>Neural Plasticity</i> , 2020, 2020, 1-12.	1.0	30
62	Acute Exercise and Neurocognitive Development in Preadolescents and Young Adults: An ERP Study. <i>Neural Plasticity</i> , 2017, 2017, 1-13.	1.0	29
63	Tai Chi Chuan modulates heart rate variability during abdominal breathing in elderly adults. <i>PsyCh Journal</i> , 2016, 5, 69-77.	0.5	28
64	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.	1.4	28
65	Dose-Response Relationship between Exercise Duration and Executive Function in Older Adults. <i>Journal of Clinical Medicine</i> , 2018, 7, 279.	1.0	27
66	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, 7092.	1.2	27
67	Mental toughness in sport: a review and prospect. <i>International Journal of Sport and Exercise Psychology</i> , 2012, 10, 79-92.	1.1	26
68	Motor Ability and Inhibitory Processes in Children With ADHD: A Neuroelectric Study. <i>Journal of Sport and Exercise Psychology</i> , 2013, 35, 322-328.	0.7	26
69	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.	1.1	26
70	Quality of Life Assessment for Physical Activity and Health Promotion. <i>Applied Research in Quality of Life</i> , 2011, 6, 181-200.	1.4	25
71	Physical activity, health and well-being in an imposed social distanced world. <i>International Journal of Sport and Exercise Psychology</i> , 2020, 18, 414-419.	1.1	24
72	Effect of Autonomy Support on Self-Determined Motivation in Elementary Physical Education. <i>Journal of Sports Science and Medicine</i> , 2016, 15, 460-466.	0.7	24

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73	Exercise, cognitive function, and the brain: Advancing our understanding of complex relationships. <i>Journal of Sport and Health Science</i> , 2019, 8, 299-300.	3.3	23
74	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.	0.8	22
75	Obesity, Cardiovascular Fitness, and Inhibition Function: An Electrophysiological Study. <i>Frontiers in Psychology</i> , 2016, 07, 1124.	1.1	22
76	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, 1120-1125.	1.3	22
77	A randomized controlled trial of coordination exercise on cognitive function in obese adolescents. <i>Psychology of Sport and Exercise</i> , 2018, 34, 29-38.	1.1	21
78	Brain Functional Specialization Is Enhanced Among Tai Chi Chuan Practitioners. <i>Archives of Physical Medicine and Rehabilitation</i> , 2020, 101, 1176-1182.	0.5	20
79	Differences in working memory as a function of physical activity in children.. <i>Neuropsychology</i> , 2018, 32, 797-808.	1.0	20
80	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, 642-655.	1.2	19
81	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.	1.7	19
82	Cardiorespiratory Fitness, Age, and Multiple Aspects of Executive Function Among Preadolescent Children. <i>Frontiers in Psychology</i> , 2020, 11, 1198.	1.1	19
83	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.	3.3	18
84	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, 789-795.	2.1	18
85	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.	1.1	18
86	A Preliminary Examination of Aerobic Exercise Effects on Resting EEG in Children With ADHD. <i>Journal of Attention Disorders</i> , 2017, 21, 898-903.	1.5	18
87	Exercise Modality Is Differentially Associated with Neurocognition in Older Adults. <i>Neural Plasticity</i> , 2017, 2017, 1-11.	1.0	18
88	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.	0.7	17
89	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.	1.1	16
90	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.	1.3	16

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91	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.	3.1	16
92	Expertsâ€™™ successful psychomotor performance was characterized by effective switch of motor and attentional control. <i>Psychology of Sport and Exercise</i> , 2019, 43, 374-379.	1.1	16
93	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.	1.1	16
94	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.	0.9	15
95	Structural differences in basal ganglia of elite running versus martial arts athletes: a diffusion tensor imaging study. <i>Experimental Brain Research</i> , 2015, 233, 2239-2248.	0.7	12
96	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, 2507.	1.2	12
97	Exercise and dietary program-induced weight reduction is associated with cognitive function among obese adolescents: a longitudinal study. <i>PeerJ</i> , 2017, 5, e3286.	0.9	11
98	Acute High-Intensity Interval Exercise Improves Inhibitory Control Among Young Adult Males With Obesity. <i>Frontiers in Psychology</i> , 2020, 11, 1291.	1.1	11
99	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.	0.7	11
100	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.	0.8	11
101	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, 12015.	1.2	11
102	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.	1.1	10
103	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.	1.1	10
104	The association between physical fitness parameters and white matter microstructure in older adults: A diffusion tensor imaging study. <i>Psychophysiology</i> , 2020, 57, e13539.	1.2	9
105	Relationship between Mindfulness, Psychological Skills, and Mental Toughness in College Athletes. <i>International Journal of Environmental Research and Public Health</i> , 2021, 18, 6802.	1.2	7
106	The Combined Effects of Obesity and Cardiorespiratory Fitness Are Associated with Response Inhibition: An ERP Study. <i>International Journal of Environmental Research and Public Health</i> , 2021, 18, 3429.	1.2	5
107	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, 5393.	1.2	5
108	Acute coordinative exercise ameliorates general and food-cue related cognitive function in obese adolescents. <i>Journal of Sports Sciences</i> , 2020, 38, 953-960.	1.0	3

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109	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.	1.7	3
110	Effects of a Group-Based Aerobic Exercise Program on the Cognitive Functions and Emotions of Substance Use Disorder Patients: a Randomised Controlled Trial. <i>International Journal of Mental Health and Addiction</i> , 2022, 20, 2349-2365.	4.4	3
111	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, 8972.	1.2	3
112	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.	1.1	3
113	Cardiorespiratory fitness is associated with sustained neurocognitive function during a prolonged inhibitory control task in young adults: An ERP study. <i>Psychophysiology</i> , 2022, 59, e14086.	1.2	3
114	The Association of Obesity and Cardiorespiratory Fitness in Relation to Cognitive Flexibility: An Event-Related Potential Study. <i>Frontiers in Human Neuroscience</i> , 2022, 16, .	1.0	3
115	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.	0.2	2
116	The Effects of Mindfulness-Based Intervention on Shooting Performance and Cognitive Functions in Archers. <i>Frontiers in Psychology</i> , 2021, 12, 661961.	1.1	2
117	The effects of acute yoga practice on heart rate and heart rate variability responses to mental stress. <i>International Journal of Sport and Exercise Psychology</i> , 2023, 21, 660-672.	1.1	2
118	Effects of exercise intensity and duration at a predetermined exercise volume on executive function among Apolipoprotein E (APOE)- ϵ 4 carriers. <i>Current Psychology</i> , 0, , .	1.7	2
119	Chronic exercise and cognitive function: An update of current findings. <i>International Journal of Sport and Exercise Psychology</i> , 0, , 1-4.	1.1	1
120	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.	1.1	1
121	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.	3.1	1
122	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.	1.1	1
123	Effects of technology-supported brain breaks videos on exercise self-efficacy among type 2 diabetes mellitus Malaysians. <i>Scientific Reports</i> , 2022, 12, .	1.6	1
124	Response. <i>Experimental Brain Research</i> , 2014, 232, 2047-2048.	0.7	0
125	Evaluation of microvasculature at the auditory midbrain—the benefits of sectioning at a tangential angle. <i>Microscopy Research and Technique</i> , 2015, 78, 105-110.	1.2	0
126	The Psychophysiological Profile and Cardiac Autonomic Reactivity in Long-Term Female Yoga Practitioners: A Comparison with Runners and Sedentary Individuals. <i>International Journal of Environmental Research and Public Health</i> , 2022, 19, 7671.	1.2	0