

Fabian Herold

List of Publications by Year in descending order

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45
papers

1,786
citations

430442

18
h-index

315357

38
g-index

52
all docs

52
docs citations

52
times ranked

1775
citing authors

#	ARTICLE	IF	CITATIONS
1	Applications of Functional Near-Infrared Spectroscopy (fNIRS) Neuroimaging in Exerciseâ€“Cognition Science: A Systematic, Methodology-Focused Review. <i>Journal of Clinical Medicine</i> , 2018, 7, 466.	1.0	263
2	Brain activity during walking: A systematic review. <i>Neuroscience and Biobehavioral Reviews</i> , 2015, 57, 310-327.	2.9	210
3	Functional near-infrared spectroscopy in movement science: a systematic review on cortical activity in postural and walking tasks. <i>Neurophotonics</i> , 2017, 4, 041403.	1.7	176
4	Functional and/or structural brain changes in response to resistance exercises and resistance training lead to cognitive improvements â€“ a systematic review. <i>European Review of Aging and Physical Activity</i> , 2019, 16, 10.	1.3	164
5	Thinking While Moving or Moving While Thinking â€“ Concepts of Motor-Cognitive Training for Cognitive Performance Enhancement. <i>Frontiers in Aging Neuroscience</i> , 2018, 10, 228.	1.7	119
6	Doseâ€“Response Matters! â€“ A Perspective on the Exercise Prescription in Exerciseâ€“Cognition Research. <i>Frontiers in Psychology</i> , 2019, 10, 2338.	1.1	98
7	A consensus guide to using functional near-infrared spectroscopy in posture and gait research. <i>Gait and Posture</i> , 2020, 82, 254-265.	0.6	75
8	Cortical activation during balancing on a balance board. <i>Human Movement Science</i> , 2017, 51, 51-58.	0.6	51
9	Cognitive benefits of exercise interventions: an fMRI activation likelihood estimation meta-analysis. <i>Brain Structure and Function</i> , 2021, 226, 601-619.	1.2	49
10	Are there differences in the dual-task walking variability of minimum toe clearance in chronic low back pain patients and healthy controls?. <i>Gait and Posture</i> , 2016, 49, 97-101.	0.6	37
11	The Contribution of Functional Magnetic Resonance Imaging to the Understanding of the Effects of Acute Physical Exercise on Cognition. <i>Brain Sciences</i> , 2020, 10, 175.	1.1	36
12	Effects of Mini-Basketball Training Program on Executive Functions and Core Symptoms among Preschool Children with Autism Spectrum Disorders. <i>Brain Sciences</i> , 2020, 10, 263.	1.1	32
13	Tai Chi Training Evokes Significant Changes in Brain White Matter Network in Older Women. <i>Healthcare (Switzerland)</i> , 2020, 8, 57.	1.0	30
14	Mini-Basketball Training Program Improves Social Communication and White Matter Integrity in Children with Autism. <i>Brain Sciences</i> , 2020, 10, 803.	1.1	27
15	A Discussion on Different Approaches for Prescribing Physical Interventions â€“ Four Roads Lead to Rome, but Which One Should We Choose?. <i>Journal of Personalized Medicine</i> , 2020, 10, 55.	1.1	27
16	Regular Tai Chi Practice Is Associated With Improved Memory as Well as Structural and Functional Alterations of the Hippocampus in the Elderly. <i>Frontiers in Aging Neuroscience</i> , 2020, 12, 586770.	1.7	25
17	Examination of the reliability of an inertial sensor-based gait analysis system. <i>Biomedizinische Technik</i> , 2017, 62, 615-622.	0.9	22
18	Strengthening the Brainâ€“Is Resistance Training with Blood Flow Restriction an Effective Strategy for Cognitive Improvement?. <i>Journal of Clinical Medicine</i> , 2018, 7, 337.	1.0	22

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19	Perspective of Dose and Response for Individualized Physical Exercise and Training Prescription. <i>Journal of Functional Morphology and Kinesiology</i> , 2020, 5, 48.	1.1	22
20	The reliability of local dynamic stability in walking while texting and performing an arithmetical problem. <i>Gait and Posture</i> , 2016, 44, 200-203.	0.6	21
21	Effects of Intermittent Hypoxia“Hyperoxia on Performance- and Health-Related Outcomes in Humans: A Systematic Review. <i>Sports Medicine - Open</i> , 2022, 8, .	1.3	21
22	New Directions in Exercise Prescription: Is There a Role for Brain-Derived Parameters Obtained by Functional Near-Infrared Spectroscopy?. <i>Brain Sciences</i> , 2020, 10, 342.	1.1	20
23	Four Weeks of Detraining Induced by COVID-19 Reverse Cardiac Improvements from Eight Weeks of Fitness-Dance Training in Older Adults with Mild Cognitive Impairment. <i>International Journal of Environmental Research and Public Health</i> , 2021, 18, 5930.	1.2	20
24	Effect of dual tasks on gait variability in walking to auditory cues in older and young individuals. <i>Experimental Brain Research</i> , 2016, 234, 3555-3563.	0.7	19
25	Differential Effects of Tai Chi Chuan (Motor-Cognitive Training) and Walking on Brain Networks: A Resting-State fMRI Study in Chinese Women Aged 60. <i>Healthcare (Switzerland)</i> , 2020, 8, 67.	1.0	19
26	Physical Activity and Inhibitory Control: The Mediating Role of Sleep Quality and Sleep Efficiency. <i>Brain Sciences</i> , 2021, 11, 664.	1.1	17
27	Causes and Consequences of Interindividual Response Variability: A Call to Apply a More Rigorous Research Design in Acute Exercise-Cognition Studies. <i>Frontiers in Physiology</i> , 2021, 12, 682891.	1.3	16
28	Does Cardiorespiratory Fitness Influence the Effect of Acute Aerobic Exercise on Executive Function?. <i>Frontiers in Human Neuroscience</i> , 2020, 14, 569010.	1.0	15
29	Structural and functional brain signatures of endurance runners. <i>Brain Structure and Function</i> , 2021, 226, 93-103.	1.2	14
30	Cortical hemodynamics as a function of handgrip strength and cognitive performance: a cross-sectional fNIRS study in younger adults. <i>BMC Neuroscience</i> , 2021, 22, 10.	0.8	14
31	Does squatting need attention?“A dual-task study on cognitive resources in resistance exercise. <i>PLoS ONE</i> , 2020, 15, e0226431.	1.1	13
32	Brain Structure, Cardiorespiratory Fitness, and Executive Control Changes after a 9-Week Exercise Intervention in Young Adults: A Randomized Controlled Trial. <i>Life</i> , 2021, 11, 292.	1.1	13
33	Towards the Neuromotor Control Processes of Steady-State and Speed-Matched Treadmill and Overground Walking. <i>Brain Topography</i> , 2019, 32, 472-476.	0.8	11
34	Multimodal measurement approach to identify individuals with mild cognitive impairment: study protocol for a cross-sectional trial. <i>BMJ Open</i> , 2021, 11, e046879.	0.8	11
35	Higher Handgrip Strength Is Linked to Better Cognitive Performance in Chinese Adults with Hypertension. <i>Brain Sciences</i> , 2021, 11, 985.	1.1	10
36	The Influence of Acute Sprint Interval Training on Cognitive Performance of Healthy Younger Adults. <i>International Journal of Environmental Research and Public Health</i> , 2022, 19, 613.	1.2	8

#	ARTICLE	IF	CITATIONS
37	Neurobehavioral mechanisms underlying the effects of physical exercise break on episodic memory during prolonged sitting. <i>Complementary Therapies in Clinical Practice</i> , 2022, 48, 101553.	0.7	7
38	Brain Activation During Active Balancing and Its Behavioral Relevance in Younger and Older Adults: A Functional Near-Infrared Spectroscopy (fNIRS) Study. <i>Frontiers in Aging Neuroscience</i> , 2022, 14, 828474.	1.7	6
39	Episodic Memory Encoding and Retrieval in Face-Name Paired Paradigm: An fNIRS Study. <i>Brain Sciences</i> , 2021, 11, 951.	1.1	5
40	Going digital – a commentary on the terminology used at the intersection of physical activity and digital health. <i>European Review of Aging and Physical Activity</i> , 2022, 19, .	1.3	5
41	A Link between Handgrip Strength and Executive Functioning: A Cross-Sectional Study in Older Adults with Mild Cognitive Impairment and Healthy Controls. <i>Healthcare (Switzerland)</i> , 2022, 10, 230.	1.0	4
42	Validation of the Chinese Version of the Exercise Dependence Scale-Revised (EDS-R). <i>International Journal of Mental Health and Addiction</i> , 0, , 1.	4.4	2
43	The acute effects of physical exercise breaks on cognitive function during prolonged sitting: The first quantitative evidence. <i>Complementary Therapies in Clinical Practice</i> , 2022, 48, 101594.	0.7	2
44	Age-Related Differences in Cardiac Autonomic Control at Resting State and in Response to Mental Stress. <i>Diagnostics</i> , 2021, 11, 2218.	1.3	1
45	Relationship between Resting State Heart Rate Variability and Sleep Quality in Older Adults with Mild Cognitive Impairment. <i>International Journal of Environmental Research and Public Health</i> , 2021, 18, 13321.	1.2	1