

# Claudia Voelcker-Rehage

## List of Publications by Citations

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103  
papers

3,156  
citations

26  
h-index

54  
g-index

128  
ext. papers

3,831  
ext. citations

4  
avg, IF

5.76  
L-index

#	Paper	IF	Citations
103	Acute coordinative exercise improves attentional performance in adolescents. <i>Neuroscience Letters</i> , <b>2008</b> , 441, 219-23	3.3	324
102	Structural and functional brain changes related to different types of physical activity across the life span. <i>Neuroscience and Biobehavioral Reviews</i> , <b>2013</b> , 37, 2268-95	9	241
101	Cardiovascular and coordination training differentially improve cognitive performance and neural processing in older adults. <i>Frontiers in Human Neuroscience</i> , <b>2011</b> , 5, 26	3.3	237
100	Physical and motor fitness are both related to cognition in old age. <i>European Journal of Neuroscience</i> , <b>2010</b> , 31, 167-76	3.5	198
99	Reversing cognitive-motor impairments in Parkinson's disease patients using a computational modelling approach to deep brain stimulation programming. <i>Brain</i> , <b>2010</b> , 133, 746-61	11.2	184
98	Motor-skill learning in older adults—review of studies on age-related differences. <i>European Review of Aging and Physical Activity</i> , <b>2008</b> , 5, 5-16	6.5	141
97	Not only cardiovascular, but also coordinative exercise increases hippocampal volume in older adults. <i>Frontiers in Aging Neuroscience</i> , <b>2014</b> , 6, 170	5.3	115
96	Training effects on motor-cognitive dual-task performance in older adults. <i>European Review of Aging and Physical Activity</i> , <b>2014</b> , 11, 5-24	6.5	106
95	Bilateral subthalamic stimulation impairs cognitive-motor performance in Parkinson's disease patients. <i>Brain</i> , <b>2008</b> , 131, 3348-60	11.2	97
94	Age-related changes in grasping force modulation. <i>Experimental Brain Research</i> , <b>2005</b> , 166, 61-70	2.3	80
93	Steroid hormones in the saliva of adolescents after different exercise intensities and their influence on working memory in a school setting. <i>Psychoneuroendocrinology</i> , <b>2010</b> , 35, 382-91	5	79
92	Exercise-induced changes in basal ganglia volume and cognition in older adults. <i>Neuroscience</i> , <b>2014</b> , 281, 147-63	3.9	75
91	Age-related differences in working memory and force control under dual-task conditions. <i>Aging, Neuropsychology, and Cognition</i> , <b>2006</b> , 13, 366-84	2.1	74
90	Non-imprinted allele-specific DNA methylation on human autosomes. <i>Genome Biology</i> , <b>2009</b> , 10, R138	18.3	67
89	Effect of motor practice on dual-task performance in older adults. <i>Journals of Gerontology - Series B Psychological Sciences and Social Sciences</i> , <b>2007</b> , 62, P141-8	4.6	67
88	Touch perception throughout working life: effects of age and expertise. <i>Experimental Brain Research</i> , <b>2012</b> , 216, 287-97	2.3	51
87	Motor plasticity in a juggling task in older adults—a developmental study. <i>Age and Ageing</i> , <b>2006</b> , 35, 422-73		49

86	Influence of a visual-verbal Stroop test on standing and walking performance of older adults. <i>Neuroscience</i> , <b>2016</b> , 318, 166-77	3.9	42
85	A Systematic Review on the Cognitive Benefits and Neurophysiological Correlates of Exergaming in Healthy Older Adults. <i>Journal of Clinical Medicine</i> , <b>2019</b> , 8,	5.1	40
84	Hormonal responses to physical and cognitive stress in a school setting. <i>Neuroscience Letters</i> , <b>2010</b> , 474, 131-134	3.3	37
83	More automation and less cognitive control of imagined walking movements in high- versus low-fit older adults. <i>Frontiers in Aging Neuroscience</i> , <b>2010</b> , 2,	5.3	36
82	Intermittent maximal exercise improves attentional performance only in physically active students. <i>Archives of Medical Research</i> , <b>2012</b> , 43, 125-31	6.6	35
81	Age-related differences in finger force control are characterized by reduced force production. <i>Experimental Brain Research</i> , <b>2013</b> , 224, 107-17	2.3	31
80	How to Tackle Key Challenges in the Promotion of Physical Activity among Older Adults (65+): The AEQUIPA Network Approach. <i>International Journal of Environmental Research and Public Health</i> , <b>2017</b> , 14,	4.6	30
79	Don't Lose Your Brain at Work - The Role of Recurrent Novelty at Work in Cognitive and Brain Aging. <i>Frontiers in Psychology</i> , <b>2017</b> , 8, 117	3.4	29
78	Influence of acute and chronic physical activity on cognitive performance and saliva testosterone in preadolescent school children. <i>Mental Health and Physical Activity</i> , <b>2013</b> , 6, 197-204	5	27
77	Neural correlates of motor-cognitive dual-tasking in young and old adults. <i>PLoS ONE</i> , <b>2017</b> , 12, e0189025,	5.7	26
76	Saliva cortisol in school children after acute physical exercise. <i>Neuroscience Letters</i> , <b>2010</b> , 483, 16-9	3.3	24
75	Senior Dance Experience, Cognitive Performance, and Brain Volume in Older Women. <i>Neural Plasticity</i> , <b>2016</b> , 2016, 9837321	3.3	24
74	The Influence of Age and Work-Related Expertise on Fine Motor Control. <i>GeroPsych: the Journal of Gerontopsychology and Geriatric Psychiatry</i> , <b>2012</b> , 25, 199-206	1	23
73	Multitasking During Simulated Car Driving: A Comparison of Young and Older Persons. <i>Frontiers in Psychology</i> , <b>2018</b> , 9, 910	3.4	22
72	A multicomponent exercise intervention to improve physical functioning, cognition and psychosocial well-being in elderly nursing home residents: a study protocol of a randomized controlled trial in the PROCARE (prevention and occupational health in long-term care) project. <i>BMC Geriatrics</i> , <b>2019</b> , 19, 369	4.1	22
71	Feasibility study of dual-task-managing training to improve gait performance of older adults. <i>Aging Clinical and Experimental Research</i> , <b>2015</b> , 27, 447-55	4.8	21
70	A parietal-to-frontal shift in the P300 is associated with compensation of tactile discrimination deficits in late middle-aged adults. <i>Psychophysiology</i> , <b>2013</b> , 50, 583-93	4.1	21
69	Cognitive Resources Necessary for Motor Control in Older Adults Are Reduced by Walking and Coordination Training. <i>Frontiers in Human Neuroscience</i> , <b>2017</b> , 11, 156	3.3	19

68	Effects of two web-based interventions promoting physical activity among older adults compared to a delayed intervention control group in Northwestern Germany: Results of the PROMOTE community-based intervention trial. <i>Preventive Medicine Reports</i> , <b>2019</b> , 15, 100958	2.6	18
67	Development and evaluation of two web-based interventions for the promotion of physical activity in older adults: study protocol for a community-based controlled intervention trial. <i>BMC Public Health</i> , <b>2017</b> , 17, 512	4.1	18
66	Does physical activity benefit motor performance and learning of upper extremity tasks in older adults? - A systematic review. <i>European Review of Aging and Physical Activity</i> , <b>2017</b> , 14, 15	6.5	17
65	The Association Between Physical Activity and Attentional Control in Younger and Older Middle-Aged Adults. <i>GeroPsych: the Journal of Gerontopsychology and Geriatric Psychiatry</i> , <b>2012</b> , 25, 207-221	1	15
64	Older adults reveal enhanced task-related beta power decreases during a force modulation task. <i>Behavioural Brain Research</i> , <b>2018</b> , 345, 104-113	3.4	14
63	Effects of age and fine motor expertise on the bilateral deficit in force initiation. <i>Experimental Brain Research</i> , <b>2013</b> , 231, 107-16	2.3	14
62	Acute Exercise as an Intervention to Trigger Motor Performance and EEG Beta Activity in Older Adults. <i>Neural Plasticity</i> , <b>2018</b> , 2018, 4756785	3.3	14
61	Koordination sportlicher Bewegungen   Sportmotorik <b>2013</b> , 211-267		13
60	Practice effects in bimanual force control: does age matter?. <i>Journal of Motor Behavior</i> , <b>2015</b> , 47, 57-72	1.4	12
59	Extensive occupational finger use delays age effects in tactile perception-an ERP study. <i>Attention, Perception, and Psychophysics</i> , <b>2014</b> , 76, 1160-75	2	12
58	Structure of executive functions in young and in older persons. <i>PLoS ONE</i> , <b>2019</b> , 14, e0216149	3.7	11
57	Cognitive-Motor Interference in an Ecologically Valid Street Crossing Scenario. <i>Frontiers in Psychology</i> , <b>2018</b> , 9, 602	3.4	11
56	How Older Adults Cope with Cognitive Complexity and Environmental Constraints during Dual-Task Walking: The Role of Executive Function Involvement. <i>International Journal of Environmental Research and Public Health</i> , <b>2019</b> , 16,	4.6	10
55	COMT gene polymorphisms, cognitive performance, and physical fitness in older adults. <i>Psychology of Sport and Exercise</i> , <b>2015</b> , 20, 20-28	4.2	10
54	High frequency sensory stimulation improves tactile but not motor performance in older adults. <i>Motor Control</i> , <b>2010</b> , 14, 460-77	1.3	10
53	Sportmotorische Entwicklung über die Lebensspanne. <i>Zeitschrift Für Sportpsychologie</i> , <b>2006</b> , 13, 10-22	0.3	10
52	The exercise effect on psychological well-being in older adults—systematic review of longitudinal studies. <i>German Journal of Exercise and Sport Research</i> , <b>2018</b> , 48, 323-333	1.2	10
51	Differences in Cognitive-Motor Interference in Older Adults While Walking and Performing a Visual-Verbal Stroop Task. <i>Frontiers in Aging Neuroscience</i> , <b>2018</b> , 10, 426	5.3	9

50	A Randomized Controlled Trial on the Effects of Aerobic and Coordinative Training on Neural Correlates of Inhibitory Control in Children. <i>Journal of Clinical Medicine</i> , <b>2019</b> , 8,	5.1	9
49	A Non-linear Relationship Between Selective Attention and Associated ERP Markers Across the Lifespan. <i>Frontiers in Psychology</i> , <b>2019</b> , 10, 30	3.4	9
48	Effects of Two Web-Based Interventions and Mediating Mechanisms on Stage of Change Regarding Physical Activity in Older Adults. <i>Applied Psychology: Health and Well-Being</i> , <b>2020</b> , 12, 77-100	6.8	9
47	Asymmetrical pedaling patterns in Parkinson's disease patients. <i>Clinical Biomechanics</i> , <b>2014</b> , 29, 1089-94	2.2	8
46	Dynamical signatures of isometric force control as a function of age, expertise, and task constraints. <i>Journal of Neurophysiology</i> , <b>2017</b> , 118, 176-186	3.2	7
45	Sensor-based systems for early detection of dementia (SENDA): a study protocol for a prospective cohort sequential study. <i>BMC Neurology</i> , <b>2020</b> , 20, 84	3.1	7
44	Fit between workers' competencies and job demands as predictor for job performance over the work career. <i>Journal for Labour Market Research</i> , <b>2011</b> , 44, 339-347		7
43	The P3 Parietal-To-Frontal Shift Relates to Age-Related Slowing in a Selective Attention Task. <i>Journal of Psychophysiology</i> , <b>2017</b> , 31, 49-66	1	7
42	An experimental paradigm for the assessment of realistic human multitasking. <i>Virtual Reality</i> , <b>2019</b> , 23, 61-70	6	7
41	Can cognitive-motor training improve physical functioning and psychosocial wellbeing in nursing home residents? A randomized controlled feasibility study as part of the PROCARE project. <i>Aging Clinical and Experimental Research</i> , <b>2021</b> , 33, 943-956	4.8	7
40	Effects of age and expertise on tactile learning in humans. <i>European Journal of Neuroscience</i> , <b>2014</b> , 40, 2589-99	3.5	6
39	Benefits of Physical Activity and Fitness for Lifelong Cognitive and Motor Development <i>Brain and Behavior</i> <b>2016</b> , 43-73		6
38	Neurophysiological correlates of age differences in driving behavior during concurrent subtask performance. <i>NeuroImage</i> , <b>2021</b> , 225, 117492	7.9	6
37	Equity Impact Assessment of Interventions to Promote Physical Activity among Older Adults: A Logic Model Framework. <i>International Journal of Environmental Research and Public Health</i> , <b>2019</b> , 16,	4.6	5
36	Motor practice in a force modulation task in young and middle-aged adults. <i>Journal of Electromyography and Kinesiology</i> , <b>2018</b> , 38, 224-231	2.5	5
35	Age- and Expertise-Related Differences of Sensorimotor Network Dynamics during Force Control. <i>Neuroscience</i> , <b>2018</b> , 388, 203-213	3.9	5
34	Influence of Age and Expertise on Manual Dexterity in the Work Context: The Bremen-Hand-Study@Jacobs <b>2013</b> , 391-415		5
33	Shedding Light on the Effects of Moderate Acute Exercise on Working Memory Performance in Healthy Older Adults: An fNIRS Study. <i>Brain Sciences</i> , <b>2020</b> , 10,	3.4	5

32	Improved Neural Control of Movements Manifests in Expertise-Related Differences in Force Output and Brain Network Dynamics. <i>Frontiers in Physiology</i> , <b>2018</b> , 9, 1540	4.6	5
31	Moderate Cardiovascular Exercise Speeds Up Neural Markers of Stimulus Evaluation During Attentional Control Processes. <i>Journal of Clinical Medicine</i> , <b>2019</b> , 8,	5.1	4
30	Meilensteine der Motorischen Verhaltensforschung. <i>Zeitschrift Fur Sportpsychologie</i> , <b>2019</b> , 26, 81-111	0.3	4
29	Explaining Individual Differences in Fine Motor Performance and Learning in Older Adults: The Contribution of Muscle Strength and Cardiovascular Fitness. <i>Journal of Aging and Physical Activity</i> , <b>2019</b> , 27, 725-738	1.6	4
28	Requirements for (web-based) physical activity interventions targeting adults above the age of 65 years - qualitative results regarding acceptance and needs of participants and non-participants. <i>BMC Public Health</i> , <b>2020</b> , 20, 907	4.1	3
27	Effects of cognitive-motor dual task training on cognitive and physical performance in healthy children and adolescents: A scoping review.. <i>Acta Psychologica</i> , <b>2022</b> , 224, 103498	1.7	3
26	Implementation and Effects of Information Technology-Based and Print-Based Interventions to Promote Physical Activity Among Community-Dwelling Older Adults: Protocol for a Randomized Crossover Trial. <i>JMIR Research Protocols</i> , <b>2020</b> , 9, e15168	2	3
25	The Chronic Exercise-Cognition Interaction in Older Adults <b>2016</b> , 295-320		3
24	A Virtual-Reality Approach for the Assessment and Rehabilitation of Multitasking Deficits. <i>International Journal of Virtual and Augmented Reality</i> , <b>2018</b> , 2, 48-58	0.3	3
23	Distracting tasks have persisting effects on young and older drivers' braking performance. <i>Accident Analysis and Prevention</i> , <b>2021</b> , 161, 106363	6.1	3
22	Multicomponent exercise to improve motor functions, cognition and well-being for nursing home residents who are unable to walk - A randomized controlled trial. <i>Experimental Gerontology</i> , <b>2021</b> , 153, 111484	4.5	3
21	The Unique Contribution of Physical Activity to Successful Cognitive Aging <b>2020</b> , 832-856		2
20	How Age, Cognitive Function and Gender Affect Bimanual Force Control. <i>Frontiers in Physiology</i> , <b>2020</b> , 11, 245	4.6	2
19	Distinct physical activity and sedentary behavior trajectories in older adults during participation in a physical activity intervention: a latent class growth analysis.. <i>European Review of Aging and Physical Activity</i> , <b>2022</b> , 19, 1	6.5	2
18	Neurokognition und Bewegung <b>2020</b> , 69-88		2
17	Neural processing of arousing emotional information is associated with executive functioning in older adults. <i>Emotion</i> , <b>2020</b> , 20, 541-556	4.1	2
16	The Implication of Wearables and the Factors Affecting Their Usage among Recreationally Active People. <i>International Journal of Environmental Research and Public Health</i> , <b>2020</b> , 17,	4.6	2
15	Benefits of Higher Cardiovascular and Motor Coordinative Fitness on Driving Behavior Are Mediated by Cognitive Functioning: A Path Analysis. <i>Frontiers in Aging Neuroscience</i> , <b>2021</b> , 13, 686499	5.3	2

14	Toy or tool? Activity trackers for the assessment of physical activity in the wild <b>2019</b> ,		2
13	Classification of visuomotor tasks based on electroencephalographic data depends on age-related differences in brain activity patterns. <i>Neural Networks</i> , <b>2021</b> , 142, 363-374	9.1	2
12	Regular participation in leisure time activities and high cardiovascular fitness improve motor sequence learning in older adults. <i>Psychological Research</i> , <b>2021</b> , 85, 1488-1502	2.5	1
11	Web-Based Versus Print-Based Physical Activity Intervention for Community-Dwelling Older Adults: Crossover Randomized Trial.. <i>JMIR MHealth and UHealth</i> , <b>2022</b> , 10, e32212	5.5	1
10	Physical activity and health promotion for nursing staff in elderly care: a study protocol for a randomised controlled trial. <i>BMJ Open</i> , <b>2020</b> , 10, e038202	3	1
9	Application of Activity Trackers among Nursing Home Residents-A Pilot and Feasibility Study on Physical Activity Behavior, Usage Behavior, Acceptance, Usability and Motivational Impact. <i>International Journal of Environmental Research and Public Health</i> , <b>2020</b> , 17,	4.6	1
8	Equity impacts of interventions to increase physical activity among older adults: a quantitative health impact assessment. <i>International Journal of Behavioral Nutrition and Physical Activity</i> , <b>2020</b> , 17, 103	8.4	1
7	Health-related lifestyle and dropout from a web-based physical activity intervention trial in older adults: A latent profile analysis. <i>Health Psychology</i> , <b>2021</b> , 40, 481-490	5	1
6	Normative Data for the CERAD-NP for Healthy High-Agers (80-84 years) and Effects of Age-Typical Visual Impairment and Hearing Loss. <i>Journal of the International Neuropsychological Society</i> , <b>2021</b> , 1-13	3.1	0
5	Characteristics of Resting State EEG Power in 80+-Year-Olds of Different Cognitive Status. <i>Frontiers in Aging Neuroscience</i> , <b>2021</b> , 13, 675689	5.3	0
4	Die Bit im NordwestenEToolbox. <i>Pravention Und Gesundheitsforderung</i> ,1	0.5	0
3	Lifestyle Matters: Effects of Habitual Physical Activity on Driving Skills in Older Age. <i>Brain Sciences</i> , <b>2022</b> , 12, 608	3.4	0
2	A Virtual-Reality Approach for the Assessment and Rehabilitation of Multitasking Deficits <b>2020</b> , 800-811		
1	Motorische Entwicklung Ber die Lebensspanne <b>2021</b> , 1-32		