

Darla M Castelli

List of Publications by Year in descending order

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Version: 2024-02-01

121
papers

6,638
citations

136950

32
h-index

64796

79
g-index

126
all docs

126
docs citations

126
times ranked

5238
citing authors

#	ARTICLE	IF	CITATIONS
1	Physical Activity, Fitness, Cognitive Function, and Academic Achievement in Children. <i>Medicine and Science in Sports and Exercise</i> , 2016, 48, 1197-1222.	0.4	1,118
2	The effect of acute treadmill walking on cognitive control and academic achievement in preadolescent children. <i>Neuroscience</i> , 2009, 159, 1044-1054.	2.3	578
3	Physical Fitness and Academic Achievement in Third- and Fifth-Grade Students. <i>Journal of Sport and Exercise Psychology</i> , 2007, 29, 239-252.	1.2	564
4	Effects of the FITKids Randomized Controlled Trial on Executive Control and Brain Function. <i>Pediatrics</i> , 2014, 134, e1063-e1071.	2.1	447
5	Aerobic Fitness and Neurocognitive Function in Healthy Preadolescent Children. <i>Medicine and Science in Sports and Exercise</i> , 2005, 37, 1967-1974.	0.4	339
6	Aerobic fitness and cognitive development: Event-related brain potential and task performance indices of executive control in preadolescent children.. <i>Developmental Psychology</i> , 2009, 45, 114-129.	1.6	337
7	The effects of an afterschool physical activity program on working memory in preadolescent children. <i>Developmental Science</i> , 2011, 14, 1046-1058.	2.4	245
8	The Relation of Aerobic Fitness to Stroop Task Performance in Preadolescent Children. <i>Medicine and Science in Sports and Exercise</i> , 2008, 40, 166-172.	0.4	208
9	The effects of physical activity on functional MRI activation associated with cognitive control in children: a randomized controlled intervention. <i>Frontiers in Human Neuroscience</i> , 2013, 7, 72.	2.0	181
10	The Relation of Adiposity to Cognitive Control and Scholastic Achievement in Preadolescent Children. <i>Obesity</i> , 2012, 20, 2406-2411.	3.0	171
11	School-Based Physical Activity Promotion: A Conceptual Framework for Research and Practice. <i>Childhood Obesity</i> , 2014, 10, 100-106.	1.5	116
12	Chapter 3: The Relationship of Physical Fitness and Motor Competence to Physical Activity. <i>Journal of Teaching in Physical Education</i> , 2007, 26, 358-374.	1.2	115
13	Physical Activity, Fitness, Cognitive Function, and Academic Achievement in Children. <i>Medicine and Science in Sports and Exercise</i> , 2016, 48, 1223-1224.	0.4	113
14	The Negative Association of Childhood Obesity to Cognitive Control of Action Monitoring. <i>Cerebral Cortex</i> , 2014, 24, 654-662.	2.9	110
15	Comprehensive School-Based Physical Activity Promotion: A Review. <i>Quest</i> , 2013, 65, 412-428.	1.2	108
16	Cognitive enhancement by transcranial laser stimulation and acute aerobic exercise. <i>Lasers in Medical Science</i> , 2016, 31, 1151-1160.	2.1	87
17	The association of childhood obesity to neuroelectric indices of inhibition. <i>Psychophysiology</i> , 2012, 49, 1361-1371.	2.4	85
18	Acute high-intensity exercise-induced cognitive enhancement and brain-derived neurotrophic factor in young, healthy adults. <i>Neuroscience Letters</i> , 2016, 630, 247-253.	2.1	84

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19	Physical literacy and Comprehensive School Physical Activity Programs. <i>Preventive Medicine</i> , 2014, 66, 95-100.	3.4	81
20	Physical Activity Increases White Matter Microstructure in Children. <i>Frontiers in Neuroscience</i> , 2018, 12, 950.	2.8	78
21	Health-Related Fitness and Physical Education Teachers' Content Knowledge. <i>Journal of Teaching in Physical Education</i> , 2007, 26, 3-19.	1.2	76
22	FIT Kids: Time in target heart zone and cognitive performance. <i>Preventive Medicine</i> , 2011, 52, S55-S59.	3.4	68
23	VII. THE HISTORY OF PHYSICAL ACTIVITY AND ACADEMIC PERFORMANCE RESEARCH: INFORMING THE FUTURE. <i>Monographs of the Society for Research in Child Development</i> , 2014, 79, 119-148.	6.8	66
24	Impact of trained champions of comprehensive school physical activity programs on school physical activity offerings, youth physical activity and sedentary behaviors. <i>Preventive Medicine</i> , 2014, 69, S12-S19.	3.4	64
25	National Physical Education Standards. <i>Research Quarterly for Exercise and Sport</i> , 2008, 79, 495-505.	1.4	62
26	From ERPs to academics. <i>Developmental Cognitive Neuroscience</i> , 2012, 2, S90-S98.	4.0	59
27	Preparing Physical Educators for the Role of Physical Activity Director. <i>Journal of Physical Education, Recreation and Dance</i> , 2009, 80, 24-29.	0.3	53
28	The Physical Education Teacher as School Activity Director. <i>Journal of Physical Education, Recreation and Dance</i> , 2007, 78, 25-28.	0.3	51
29	The Praise and Price of Pokémon GO: A Qualitative Study of Children's and Parents' Experiences. <i>JMIR Serious Games</i> , 2018, 6, e1.	3.1	49
30	The positive cognitive impact of aerobic fitness is associated with peripheral inflammatory and brain-derived neurotrophic biomarkers in young adults. <i>Physiology and Behavior</i> , 2017, 179, 75-89.	2.1	42
31	Effects of Gamification on Behavioral Change in Education: A Meta-Analysis. <i>International Journal of Environmental Research and Public Health</i> , 2021, 18, 3550.	2.6	42
32	Implementing Policies to Enhance Physical Education and Physical Activity in Schools. <i>Research Quarterly for Exercise and Sport</i> , 2016, 87, 133-140.	1.4	37
33	Preparing Educators to Promote and Provide Physical Activity in Schools. <i>American Journal of Lifestyle Medicine</i> , 2013, 7, 324-332.	1.9	35
34	Association of Weekly Strength Exercise Frequency and Academic Performance Among Students at a Large University in the United States. <i>Journal of Strength and Conditioning Research</i> , 2013, 27, 1988-1993.	2.1	35
35	Physical Fitness, Grit, School Attendance, and Academic Performance among Adolescents. <i>BioMed Research International</i> , 2018, 2018, 1-7.	1.9	35
36	Contextualizing physical literacy in the school environment: The challenges. <i>Journal of Sport and Health Science</i> , 2015, 4, 156-163.	6.5	34

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37	Impact of the FITKids Physical Activity Intervention on Adiposity in Prepubertal Children. <i>Pediatrics</i> , 2014, 133, e875-e883.	2.1	32
38	Chapter 4 Comprehensive School Physical Activity Programs: Characteristics of Trained Teachers. <i>Journal of Teaching in Physical Education</i> , 2014, 33, 492-510.	1.2	31
39	Elementary physical education: A focus on fitness activities and smaller class sizes are associated with higher levels of physical activity. <i>Preventive Medicine Reports</i> , 2017, 8, 135-139.	1.8	29
40	V. THE DIFFERENTIAL ASSOCIATION OF ADIPOSITY AND FITNESS WITH COGNITIVE CONTROL IN PREADOLESCENT CHILDREN. <i>Monographs of the Society for Research in Child Development</i> , 2014, 79, 72-92.	6.8	26
41	Effects of the FITKids physical activity randomized controlled trial on conflict monitoring in youth. <i>Psychophysiology</i> , 2018, 55, e13017.	2.4	26
42	Adiposity, Activity, Fitness, and C-Reactive Protein in Children. <i>Medicine and Science in Sports and Exercise</i> , 2010, 42, 1981-1986.	0.4	24
43	Adiposity and aerobic fitness are associated with metabolic disease risk in children. <i>Applied Physiology, Nutrition and Metabolism</i> , 2011, 36, 72-79.	1.9	24
44	The HOT (Healthy Outcome for Teens) project. Using a web-based medium to influence attitude, subjective norm, perceived behavioral control and intention for obesity and type 2 diabetes prevention. <i>Appetite</i> , 2014, 72, 82-89.	3.7	23
45	The Application of an Implementation Science Framework to Comprehensive School Physical Activity Programs: Be a Champion!. <i>Frontiers in Public Health</i> , 2017, 5, 354.	2.7	23
46	Chapter 3: A Comparison of High and Low Performing Secondary Physical Education Programs. <i>Journal of Teaching in Physical Education</i> , 2003, 22, 512-532.	1.2	22
47	PETE Programs Creating Teacher Leaders to Integrate Comprehensive School Physical Activity Programs. <i>Journal of Physical Education, Recreation and Dance</i> , 2017, 88, 8-10.	0.3	20
48	CSPAP Professional Preparation: Takeaways from Pioneering Physical Education Teacher Education Programs. <i>Journal of Physical Education, Recreation and Dance</i> , 2017, 88, 43-51.	0.3	20
49	Brain Network Modularity Predicts Improvements in Cognitive and Scholastic Performance in Children Involved in a Physical Activity Intervention. <i>Frontiers in Human Neuroscience</i> , 2020, 14, 346.	2.0	20
50	The differential relationship of an afterschool physical activity intervention on brain function and cognition in children with obesity and their normal weight peers. <i>Pediatric Obesity</i> , 2021, 16, e12708.	2.8	19
51	Physical Activity During the School Day. <i>Journal of Physical Education, Recreation and Dance</i> , 2012, 83, 20-29.	0.3	17
52	Multi-modal data collection for measuring health, behavior, and living environment of large-scale participant cohorts. <i>GigaScience</i> , 2021, 10, .	6.4	14
53	Chapter 1: Setting the Stage—Research into Physical Activity Relationships and Children’s Progress Toward Achievement of the National Standards. <i>Journal of Teaching in Physical Education</i> , 2007, 26, 338-349.	1.2	13
54	Association between aerobic fitness and cerebrovascular function with neurocognitive functions in healthy, young adults. <i>Experimental Brain Research</i> , 2018, 236, 1421-1430.	1.5	13

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55	Effects of Vigorous Intensity Physical Activity on Mathematics Test Performance. <i>Journal of Teaching in Physical Education</i> , 2015, 34, 346-362.	1.2	12
56	Health Promotion Efforts as Predictors of Physical Activity in Schools: An Application of the Diffusion of Innovations Model. <i>Journal of School Health</i> , 2016, 86, 399-406.	1.6	12
57	Cognitive computing and eScience in health and life science research: artificial intelligence and obesity intervention programs. <i>Health Information Science and Systems</i> , 2017, 5, 13.	5.2	12
58	Creating a Virtual Gymnasium. <i>Journal of Physical Education, Recreation and Dance</i> , 2005, 76, 16-18.	0.3	10
59	Motor performance or opportunities to move? What do children need the most?. <i>Journal of Sport and Health Science</i> , 2019, 8, 149-152.	6.5	10
60	Grit as Perseverance in Physical Activity Participation. <i>International Journal of Environmental Research and Public Health</i> , 2020, 17, 807.	2.6	10
61	Chapter 2: Student Performance Data, School Attributes, and Relationships. <i>Journal of Teaching in Physical Education</i> , 2003, 22, 494-511.	1.2	9
62	Chapter 6: Children's Environmental Access in Relation to Motor Competence, Physical Activity, and Fitness. <i>Journal of Teaching in Physical Education</i> , 2007, 26, 404-415.	1.2	9
63	The Impact of Web-Based HOT (Healthy Outcomes for Teens) Project on Risk for Type 2 Diabetes: A Randomized Controlled Trial. <i>Diabetes Technology and Therapeutics</i> , 2014, 16, 846-852.	4.4	9
64	Cognitively Demanding Object Negotiation While Walking and Texting. <i>Scientific Reports</i> , 2018, 8, 17880.	3.3	9
65	Project SMART: A cooperative educational game to increase physical activity in elementary schools. <i>Smart Health</i> , 2021, 19, 100163.	3.2	9
66	Essential Components of Physical Education: Policy and Environment. <i>Research Quarterly for Exercise and Sport</i> , 2021, 92, 209-221.	1.4	9
67	Brain network modularity predicts changes in cortical thickness in children involved in a physical activity intervention. <i>Psychophysiology</i> , 2021, 58, e13890.	2.4	9
68	Healthy Outcomes for Teens Project: Diabetes Prevention Through Distributed Interactive Learning. <i>Diabetes Technology and Therapeutics</i> , 2011, 13, 359-364.	4.4	8
69	Greater childhood cardiorespiratory fitness is associated with better top-down cognitive control: A midfrontal theta oscillation study. <i>Psychophysiology</i> , 2020, 57, e13678.	2.4	8
70	The Task Difficulty of Free Throw Shooting for Males and Females. <i>Research Quarterly for Exercise and Sport</i> , 1996, 67, 265-271.	1.4	7
71	Sedentary Behaviors, Sleep, and Health-related Quality of Life in Middle-aged Adults. <i>American Journal of Health Behavior</i> , 2021, 45, 785-797.	1.4	7
72	Chapter 4: A Comparison of Personal Attributes and Experiences among Physically Active and Inactive Children. <i>Journal of Teaching in Physical Education</i> , 2007, 26, 375-389.	1.2	6

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73	School-University Partnership. <i>Journal of Physical Education, Recreation and Dance</i> , 2012, 83, 15-35.	0.3	6
74	Relationship Between Health Risk and School Attendance Among Adolescents. <i>American Journal of Health Education</i> , 2018, 49, 28-32.	0.6	6
75	Implementation evaluation of a professional development program for comprehensive school physical activity leaders. <i>Preventive Medicine Reports</i> , 2020, 19, 101109.	1.8	6
76	Physical Education Performance Outcomes and Cognitive Function. <i>Strategies</i> , 2007, 21, 26-30.	0.3	5
77	Comprehensive School Physical Activity Programs in Middle Schools. <i>Journal of Physical Education, Recreation and Dance</i> , 2017, 88, 26-32.	0.3	5
78	Development of the Fitness Education Index: A Scale of Organizational Level Capacity. <i>Research Quarterly for Exercise and Sport</i> , 2020, 91, 172-178.	1.4	5
79	Moving Forward: A Research Agenda for SHAPE America. <i>Research Quarterly for Exercise and Sport</i> , 2018, 89, 282-285.	1.4	4
80	Acute Physical Activity and Cognitive Performance Among Elementary Schoolchildren. <i>Translational Journal of the American College of Sports Medicine</i> , 2020, 5, 21-28.	0.6	4
81	Exploring Post COVID-19 Outbreak Intradaily Mobility Pattern Change in College Students: A GPS-Focused Smartphone Sensing Study. <i>Frontiers in Digital Health</i> , 2021, 3, 765972.	2.8	4
82	Physical Activity and Academic Performance Among Adolescents in Low-SES Schools. <i>American Journal of Health Education</i> , 2018, 49, 354-360.	0.6	3
83	A Pilot Study of a Comprehensive School Physical Activity Program in Elementary Schools: Be a Champion!. <i>Health Behavior and Policy Review</i> , 2021, 8, 110-118.	0.4	3
84	Evidence of the Essential Components: Modeling Transdisciplinary Team Science to Improve Physical Education. <i>Research Quarterly for Exercise and Sport</i> , 2021, 92, 199-201.	1.4	3
85	Chapter 7: Selective Integration: Roles for Public Health, Kinesiology, and Physical Education. <i>Journal of Teaching in Physical Education</i> , 2021, 40, 402-411.	1.2	3
86	Large-Scale Physical Education Interventions: Past, Present, and Future. <i>Kinesiology Review</i> , 2018, 7, 259-265.	0.6	3
87	Total Play Time Needed for Preschoolers to Reach Recommended Amount of Non-Sedentary Activity. <i>International Journal of Environmental Research and Public Health</i> , 2022, 19, 3354.	2.6	3
88	"We Move Kids"-The Consensus Report from the Roundtable to Examine Strategies for Promoting Walking in the School Environment. <i>Medicine and Science in Sports and Exercise</i> , 2008, 40, S603-S605.	0.4	2
89	Cross-Sectional Study Using Virtual Reality to Measure Cognition. <i>Frontiers in Sports and Active Living</i> , 2020, 2, 543676.	1.8	2
90	Presidential youth fitness program implementation: An antecedent to organizational change. <i>Evaluation and Program Planning</i> , 2021, 86, 101919.	1.6	2

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91	Changes in Psychosocial Perspectives Among Physical Activity Leaders: Teacher Efficacy, Work Engagement, and Affective Commitment. <i>Journal of Teaching in Physical Education</i> , 2021, 40, 484-492.	1.2	2
92	Development of a School-Based Physical Activity Intervention Using an Integrated Approach: Project SMART. <i>Frontiers in Psychology</i> , 2021, 12, 648625.	2.1	2
93	The Impact of Acute Exercise on Brain-Derived Neurotrophic Factor (BDNF) and Cognitive Performance (LB694). <i>FASEB Journal</i> , 2014, 28, LB694.	0.5	2
94	Physical Activity, Fitness, and Cognitive Function in Children and Adolescents. , 0, , .		2
95	A Preface from the Guest Editors. <i>Journal of Teaching in Physical Education</i> , 2007, 26, 337.	1.2	1
96	The Beneficial Effects Of Fitness Training On Neurocognitive Function In Preadolescent Children. <i>Medicine and Science in Sports and Exercise</i> , 2011, 43, 259-260.	0.4	1
97	Effects of the FITKids Randomized Controlled Trial on Cognitive Control and Conflict Monitoring in Children. <i>Medicine and Science in Sports and Exercise</i> , 2017, 49, 308.	0.4	1
98	Evidence Supporting the Essential Components of Physical Education as a Measure of Quality. <i>Research Quarterly for Exercise and Sport</i> , 2021, 92, 259-269.	1.4	1
99	Healthy + Active = Forever Fit, Year One. <i>Medicine and Science in Sports and Exercise</i> , 2009, 41, 442.	0.4	1
100	Health Promotion Efforts as Predictors of Opportunities for Physical Activity. <i>Medicine and Science in Sports and Exercise</i> , 2014, 46, 504-505.	0.4	1
101	Professional Development as a Predictor of Implementation of a Comprehensive School Physical Activity Program. <i>Medicine and Science in Sports and Exercise</i> , 2014, 46, 520.	0.4	1
102	SWITCH-ing Quality Physical Education to Multicomponent Comprehensive School Physical Activity Programs. <i>Journal of Physical Education, Recreation and Dance</i> , 2022, 93, 35-42.	0.3	1
103	An Afterschool Physical Activity Program Improves Working Memory in Preadolescent Children. <i>Medicine and Science in Sports and Exercise</i> , 2011, 43, 257.	0.4	0
104	Health Indices and Cognitive Performance in Emerging Adults. <i>Journal of Novel Physiotherapies</i> , 2014, 04, .	0.1	0
105	Effect Of Acute Bout Of High-intensity Aerobic Exercise On Working Memory And Attention In Relation To Vo2max In Young Adults. <i>Medicine and Science in Sports and Exercise</i> , 2015, 47, 797-798.	0.4	0
106	Association between Self-Reported Sedentary Time and Trait Anxiety among College Students. <i>Medicine and Science in Sports and Exercise</i> , 2015, 47, 475.	0.4	0
107	Changes in Youth Physical Fitness by Year in School. <i>Medicine and Science in Sports and Exercise</i> , 2015, 47, 917.	0.4	0
108	Fitness, Obesity, Vascular Risk And Cognition In Young Adults. <i>Medicine and Science in Sports and Exercise</i> , 2016, 48, 237.	0.4	0

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109	The Role of Nutrition Education in the Implementation of the Presidential Youth Fitness Program. <i>Medicine and Science in Sports and Exercise</i> , 2016, 48, 763.	0.4	0
110	Effects of Moderately Intense Acute Exercise on Cognitive Performance and Cerebral Metabolism. <i>Medicine and Science in Sports and Exercise</i> , 2016, 48, 431.	0.4	0
111	Preface. <i>Research Quarterly for Exercise and Sport</i> , 2018, 89, A-i-A-ii.	1.4	0
112	Relationship between Children's Fitness Levels and Complex Motor Performance. <i>Medicine and Science in Sports and Exercise</i> , 2006, 38, S474-S475.	0.4	0
113	The Relationship of Aerobic Fitness to Interference Control in Preadolescent Children. <i>Medicine and Science in Sports and Exercise</i> , 2006, 38, S568.	0.4	0
114	The HOT Project: Healthy outcomes for teens, development phase. <i>FASEB Journal</i> , 2008, 22, 798-798.	0.5	0
115	Process evaluation of the HOT project (Healthy Outcomes for Teens) website in 3 venues. <i>FASEB Journal</i> , 2009, 23, LB477.	0.5	0
116	Television viewing and intake of added sugars related to increased central adiposity in prepubertal children. <i>FASEB Journal</i> , 2012, 26, 369.5.	0.5	0
117	Environmental Characteristics Related to the Implementation of Comprehensive School Physical Activity Programs. <i>Medicine and Science in Sports and Exercise</i> , 2014, 46, 784-785.	0.4	0
118	Obstacle Avoidance and Secondary Task Performance During Locomotion. <i>Journal of Vision</i> , 2017, 17, 708.	0.3	0
119	Student Engagement in Classroom Physical Activity Breaks. <i>Medicine and Science in Sports and Exercise</i> , 2019, 51, 853-853.	0.4	0
120	The Importance of Providing Opportunities for Health Behaviors during the School Day. <i>Nestle Nutrition Institute Workshop Series</i> , 2020, 95, 1-11.	0.1	0
121	Physical Activity and Sedentary Behavior Influences on Executive Function in Daily Living. <i>Cognitive Science and Technology</i> , 2020, , 161-181.	0.4	0