

# Paul Devita

## List of Publications by Year in descending order

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Version: 2024-02-01

79  
papers

6,667  
citations

81743

39  
h-index

76769

74  
g-index

80  
all docs

80  
docs citations

80  
times ranked

6006  
citing authors

#	ARTICLE	IF	CITATIONS
1	Effects of Intensive Diet and Exercise on Knee Joint Loads, Inflammation, and Clinical Outcomes Among Overweight and Obese Adults With Knee Osteoarthritis. <i>JAMA - Journal of the American Medical Association</i> , 2013, 310, 1263.	3.8	607
2	Age causes a redistribution of joint torques and powers during gait. <i>Journal of Applied Physiology</i> , 2000, 88, 1804-1811.	1.2	547
3	Effect of landing stiffness on joint kinetics and energetics in the lower extremity. <i>Medicine and Science in Sports and Exercise</i> , 1992, 24, 108-115.	0.2	458
4	Weight loss reduces knee-joint loads in overweight and obese older adults with knee osteoarthritis. <i>Arthritis and Rheumatism</i> , 2005, 52, 2026-2032.	6.7	434
5	Old Adults Perform Activities of Daily Living Near Their Maximal Capabilities. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2003, 58, M453-M460.	1.7	294
6	Teager's Kaiser energy operator signal conditioning improves EMG onset detection. <i>European Journal of Applied Physiology</i> , 2010, 110, 489-498.	1.2	270
7	Obesity is not associated with increased knee joint torque and power during level walking. <i>Journal of Biomechanics</i> , 2003, 36, 1355-1362.	0.9	230
8	Muscle pre- and coactivity during downward stepping are associated with leg stiffness in aging. <i>Journal of Electromyography and Kinesiology</i> , 2000, 10, 117-126.	0.7	209
9	Gait biomechanics are not normal after anterior cruciate ligament reconstruction and accelerated rehabilitation. <i>Medicine and Science in Sports and Exercise</i> , 1998, 30, 1481-1488.	0.2	197
10	Greater initial adaptations to submaximal muscle lengthening than maximal shortening. <i>Journal of Applied Physiology</i> , 1996, 81, 1677-1682.	1.2	183
11	Interaction between age and gait velocity in the amplitude and timing of antagonist muscle coactivation. <i>Gait and Posture</i> , 2009, 29, 558-564.	0.6	180
12	Aberrations in the control of quadriceps muscle force in patients with knee osteoarthritis. <i>Arthritis and Rheumatism</i> , 2004, 51, 562-569.	6.7	178
13	Altered hamstring-quadriceps muscle balance in patients with knee osteoarthritis. <i>Clinical Biomechanics</i> , 2005, 20, 97-104.	0.5	167
14	A 2-Year Prospective Cohort Study of Overuse Running Injuries: The Runners and Injury Longitudinal Study (TRAILS). <i>American Journal of Sports Medicine</i> , 2018, 46, 2211-2221.	1.9	164
15	Mechanisms Responsible for the Age-Associated Increase in Coactivation of Antagonist Muscles. <i>Exercise and Sport Sciences Reviews</i> , 2006, 34, 29-35.	1.6	149
16	Muscles do more positive than negative work in human locomotion. <i>Journal of Experimental Biology</i> , 2007, 210, 3361-3373.	0.8	147
17	Association Between Muscle Activation and Metabolic Cost of Walking in Young and Old Adults. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2011, 66A, 541-547.	1.7	118
18	Gait adaptations before and after anterior cruciate ligament reconstruction surgery. <i>Medicine and Science in Sports and Exercise</i> , 1997, 29, 853-859.	0.2	116

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19	Errors in alignment of center of pressure and foot coordinates affect predicted lower extremity torques. <i>Journal of Biomechanics</i> , 1995, 28, 985-988.	0.9	103
20	Intentional Weight Loss in Overweight and Obese Patients With Knee Osteoarthritis: Is More Better?. <i>Arthritis Care and Research</i> , 2018, 70, 1569-1575.	1.5	102
21	The effect of Nordic hamstring strength training on muscle architecture, stiffness, and strength. <i>European Journal of Applied Physiology</i> , 2017, 117, 943-953.	1.2	92
22	Individual Effects of Stride Length and Frequency on Shock Attenuation during Running. <i>Medicine and Science in Sports and Exercise</i> , 2003, 35, 307-313.	0.2	88
23	Effects of added trunk load and corresponding trunk position adaptations on lower extremity biomechanics during drop-landings. <i>Journal of Biomechanics</i> , 2008, 41, 180-185.	0.9	83
24	Effect of High-Intensity Strength Training on Knee Pain and Knee Joint Compressive Forces Among Adults With Knee Osteoarthritis. <i>JAMA - Journal of the American Medical Association</i> , 2021, 325, 646.	3.8	75
25	Do older adults with knee osteoarthritis place greater loads on the knee during gait? A preliminary study. <i>Archives of Physical Medicine and Rehabilitation</i> , 2005, 86, 703-709.	0.5	73
26	The Intensive Diet and Exercise for Arthritis (IDEA) trial: design and rationale. <i>BMC Musculoskeletal Disorders</i> , 2009, 10, 93.	0.8	70
27	Effects of standard and eccentric overload strength training in young women. <i>Medicine and Science in Sports and Exercise</i> , 2001, 33, 1206-1212.	0.2	69
28	Functional Knee Brace Alters Predicted Knee Muscle and Joint Forces in People with ACL Reconstruction during Walking. <i>Journal of Applied Biomechanics</i> , 2001, 17, 297-311.	0.3	67
29	Trunk position modulates anterior cruciate ligament forces and strains during a single-leg squat. <i>Clinical Biomechanics</i> , 2012, 27, 16-21.	0.5	66
30	Risk Factors and Mechanisms of Knee Injury in Runners. <i>Medicine and Science in Sports and Exercise</i> , 2008, 40, 1873-1879.	0.2	63
31	Intraday reliability of ground reaction force data. <i>Human Movement Science</i> , 1988, 7, 73-85.	0.6	59
32	Functional Knee Brace Effects During Walking in Patients With Anterior Cruciate Ligament Reconstruction. <i>American Journal of Sports Medicine</i> , 1998, 26, 778-784.	1.9	57
33	The Relationships between Age and Running Biomechanics. <i>Medicine and Science in Sports and Exercise</i> , 2016, 48, 98-106.	0.2	55
34	Muscle work is biased toward energy generation over dissipation in non-level running. <i>Journal of Biomechanics</i> , 2008, 41, 3354-3359.	0.9	49
35	The Interaction of Trunk-Load and Trunk-Position Adaptations on Knee Anterior Shear and Hamstrings Muscle Forces During Landing. <i>Journal of Athletic Training</i> , 2010, 45, 5-15.	0.9	47
36	Massive weight loss-induced mechanical plasticity in obese gait. <i>Journal of Applied Physiology</i> , 2011, 111, 1391-1399.	1.2	47

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37	Lower extremity joint kinetics and energetics during backward running. <i>Medicine and Science in Sports and Exercise</i> , 1991, 23, 602-610.	0.2	45
38	Effects of a functional knee brace on the biomechanics of running. <i>Medicine and Science in Sports and Exercise</i> , 1992, 24, 797-807.	0.2	45
39	Strength Training for Arthritis Trial (START): design and rationale. <i>BMC Musculoskeletal Disorders</i> , 2013, 14, 208.	0.8	45
40	The selection of a standard convention for analyzing gait data based on the analysis of relevant biomechanical factors. <i>Journal of Biomechanics</i> , 1994, 27, 501-508.	0.9	39
41	Teager-Kaiser Operator improves the accuracy of EMG onset detection independent of signal-to-noise ratio. <i>Acta of Bioengineering and Biomechanics</i> , 2008, 10, 65-8.	0.2	36
42	Quadriceps-strengthening exercise and quadriceps and knee biomechanics during walking in knee osteoarthritis: A two-centre randomized controlled trial. <i>Clinical Biomechanics</i> , 2018, 59, 199-206.	0.5	35
43	Knee Joint Loading in Knee Osteoarthritis. <i>Medicine and Science in Sports and Exercise</i> , 2014, 46, 1677-1683.	0.2	34
44	Reduced step length reduces knee joint contact forces during running following anterior cruciate ligament reconstruction but does not alter inter-limb asymmetry. <i>Clinical Biomechanics</i> , 2017, 43, 79-85.	0.5	33
45	Age and muscle strength mediate the age-related biomechanical plasticity of gait. <i>European Journal of Applied Physiology</i> , 2016, 116, 805-814.	1.2	32
46	Males and Females Respond Similarly to Walking With a Standardized, Heavy Load. <i>Military Medicine</i> , 2015, 180, 994-1000.	0.4	30
47	Effect of intensive diet and exercise on self-efficacy in overweight and obese adults with knee osteoarthritis: The IDEA randomized clinical trial. <i>Translational Behavioral Medicine</i> , 2019, 9, 227-235.	1.2	30
48	Hip mechanics underlie lower extremity power training-induced increase in old adults' fast gait velocity: The Potsdam Gait Study (POGS). <i>Gait and Posture</i> , 2017, 52, 338-344.	0.6	29
49	Independent effects of step length and foot strike pattern on tibiofemoral joint forces during running. <i>Journal of Sports Sciences</i> , 2017, 35, 2005-2013.	1.0	29
50	Evaluation of gait-related variables in lean and obese dogs at a trot. <i>American Journal of Veterinary Research</i> , 2013, 74, 757-762.	0.3	28
51	The effects of intensive dietary weight loss and exercise on gait in overweight and obese adults with knee osteoarthritis. The Intensive Diet and Exercise for Arthritis (IDEA) trial. <i>Journal of Biomechanics</i> , 2020, 98, 109477.	0.9	26
52	Advanced Age Redistributes Positive but Not Negative Leg Joint Work during Walking. <i>Medicine and Science in Sports and Exercise</i> , 2019, 51, 615-623.	0.2	25
53	Reductions in knee joint forces with weight loss are attenuated by gait adaptations in class III obesity. <i>Gait and Posture</i> , 2016, 45, 25-30.	0.6	23
54	Why National Biomechanics Day?. <i>Journal of Biomechanics</i> , 2018, 71, 1-3.	0.9	20

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55	The relationships between physical capacity and biomechanical plasticity in old adults during level and incline walking. <i>Journal of Biomechanics</i> , 2018, 69, 90-96.	0.9	19
56	Intrasubject variability of lower extremity joint moments of force during the stance phase of running. <i>Human Movement Science</i> , 1990, 9, 99-115.	0.6	14
57	Weight-loss and exercise for communities with arthritis in North Carolina (we-can): design and rationale of a pragmatic, assessor-blinded, randomized controlled trial. <i>BMC Musculoskeletal Disorders</i> , 2017, 18, 91.	0.8	14
58	Biomechanical Implications of Training Volume and Intensity in Aging Runners. <i>Medicine and Science in Sports and Exercise</i> , 2018, 50, 510-515.	0.2	14
59	How do low horizontal forces produce disproportionately high torques in human locomotion?. <i>Journal of Biomechanics</i> , 2008, 41, 1747-1753.	0.9	13
60	Effects of Load Carriage and Step Length Manipulation on Achilles Tendon and Knee Loads. <i>Military Medicine</i> , 2019, 184, e482-e489.	0.4	13
61	Power Trainingâ€“induced Increases in Muscle Activation during Gait in Old Adults. <i>Medicine and Science in Sports and Exercise</i> , 2017, 49, 2198-2025.	0.2	12
62	Kinematic Mechanisms of How Power Training Improves Healthy Old Adultsâ€™ Gait Velocity. <i>Medicine and Science in Sports and Exercise</i> , 2017, 49, 150-157.	0.2	12
63	Gait biomechanics of skipping are substantially different than those of running. <i>Journal of Biomechanics</i> , 2017, 64, 180-185.	0.9	8
64	Lower Limb Joint Angular Position and Muscle Activity During Elliptical Exercise in Healthy Young Men. <i>Journal of Applied Biomechanics</i> , 2015, 31, 19-27.	0.3	7
65	The Internationalization of National Biomechanics Day. <i>Journal of Biomechanics</i> , 2019, 88, 1-3.	0.9	7
66	Age and training volume influence joint kinetics during running. <i>Scandinavian Journal of Medicine and Science in Sports</i> , 2021, 31, 380-387.	1.3	7
67	Changes in Body Weight and Knee Pain in Adults With Knee Osteoarthritis <sc>Threeâ€“andâ€“Half</sc> Years After Completing Diet and Exercise Interventions: Followâ€“Up Study for a <sc>Singleâ€“Blind</sc>, <sc>Singleâ€“Center</sc>, Randomized Controlled Trial. <i>Arthritis Care and Research</i> , 2022, 74, 607-616.	1.5	6
68	Quantifying national biomechanics dayâ€™s impact on student perceptions toward biomechanics: A multisite pilot study. <i>Journal of Biomechanics</i> , 2022, 131, 110907.	0.9	5
69	Skipping has lower knee joint contact forces and higher metabolic cost compared to running. <i>Gait and Posture</i> , 2019, 70, 414-419.	0.6	4
70	How age and surface inclination affect joint moment strategies to accelerate and decelerate individual leg joints during walking. <i>Journal of Biomechanics</i> , 2020, 98, 109440.	0.9	4
71	Inertial Loading during Gait Evokes Unique Neuromuscular Adaptations in Old Adults. <i>Perceptual and Motor Skills</i> , 2008, 107, 881-892.	0.6	3
72	Does frontal knee kinematics predict treatment outcomes? Exploratory analyses from the Intensive Diet and Exercise for Arthritis (IDEA) trial. <i>Gait and Posture</i> , 2018, 63, 139-144.	0.6	3

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73	Age does not affect the relationship between muscle activation and joint work during incline and decline walking. <i>Journal of Biomechanics</i> , 2021, 124, 110555.	0.9	3
74	Author's response   <i>Journal of Biomechanics - Volume 37, Issue 10. Journal of Biomechanics</i> , 2004, 37, 1633-1634.	0.9	2
75	An analysis of foot stiffness in barefoot and traditionally shod runners. <i>Footwear Science</i> , 2013, 5, S132-S133.	0.8	0
76	Letter to the Editor on "Muscle function during gait is invariant to age when walking speed is controlled" by Lim YP, Lin YC, Pandy MG, <i>Gait Posture</i> 2013;38(2):253-259. <i>Gait and Posture</i> , 2014, 39, 999-1000.	0.6	0
77	Severity of Overuse Injury Impacts Self-Efficacy and Quality of Life in Runners: A 2-Year Prospective Cohort Study. <i>Journal of Sport Rehabilitation</i> , 2021, 30, 1073-1079.	0.4	0
78	Training History-Dependent Functional Role of EMG Model-Predicted Antagonist Moments in Knee Extensor Moment Generation in Healthy Young Adults. <i>Biomechanics</i> , 2022, 2, 7-19.	0.5	0
79	The Feasibility of Using the Virtual Time-to-Contact Measure of Postural Stability to Examine Postural Recovery in People With Diabetes Mellitus. <i>Motor Control</i> , 2022, , 1-13.	0.3	0