Paul Devita

List of Publications by Year
in descending order

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	Changes in Body Weight and Knee Pain in Adults With Knee Osteoarthritis <scp>Threeâ€andâ€aâ€Half</scp> Years After Completing Diet and Exercise Interventions: Followâ€Up Study for a <scp>Singleâ€Blind</scp>, <scp>Singleâ€Center</scp>, Randomized Controlled Trial. Arthritis Care and Research, 2022, 74, 607-616.	1.5	6
2	Training History-Dependent Functional Role of EMG Model-Predicted Antagonist Moments in Knee Extensor Moment Generation in Healthy Young Adults. Biomechanics, 2022, 2, 7-19.	0.5	0
3	The Feasibility of Using the Virtual Time-to-Contact Measure of Postural Stability to Examine Postural Recovery in People With Diabetes Mellitus. Motor Control, 2022, , 1-13.	0.3	0
4	Quantifying national biomechanics dayâ€™s impact on student perceptions toward biomechanics: A multisite pilot study. Journal of Biomechanics, 2022, 131, 110907.	0.9	5
5	Age and training volume influence joint kinetics during running. Scandinavian Journal of Medicine and Science in Sports, 2021, 31, 380-387.	1.3	7
6	Effect of High-Intensity Strength Training on Knee Pain and Knee Joint Compressive Forces Among Adults With Knee Osteoarthritis. JAMA - Journal of the American Medical Association, 2021, 325, 646.	3.8	75
7	Age does not affect the relationship between muscle activation and joint work during incline and decline walking. Journal of Biomechanics, 2021, 124, 110555.	0.9	3
8	Severity of Overuse Injury Impacts Self-Efficacy and Quality of Life in Runners: A 2-Year Prospective Cohort Study. Journal of Sport Rehabilitation, 2021, 30, 1073-1079.	0.4	0
9	How age and surface inclination affect joint moment strategies to accelerate and decelerate individual leg joints during walking. Journal of Biomechanics, 2020, 98, 109440.	0.9	4
10	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. Journal of Biomechanics, 2020, 98, 109477.	0.9	26
11	Effects of Load Carriage and Step Length Manipulation on Achilles Tendon and Knee Loads. Military Medicine, 2019, 184, e482-e489.	0.4	13
12	Skipping has lower knee joint contact forces and higher metabolic cost compared to running. Gait and Posture, 2019, 70, 414-419.	0.6	4
13	The Internationalization of National Biomechanics Day. Journal of Biomechanics, 2019, 88, 1-3.	0.9	7
14	Advanced Age Redistributes Positive but Not Negative Leg Joint Work during Walking. Medicine and Science in Sports and Exercise, 2019, 51, 615-623.	0.2	25
15	Effect of intensive diet and exercise on self-efficacy in overweight and obese adults with knee osteoarthritis: The IDEA randomized clinical trial. Translational Behavioral Medicine, 2019, 9, 227-235.	1.2	30
16	The relationships between physical capacity and biomechanical plasticity in old adults during level and incline walking. Journal of Biomechanics, 2018, 69, 90-96.	0.9	19
17	Why National Biomechanics Day?. Journal of Biomechanics, 2018, 71, 1-3.	0.9	20
18	Biomechanical Implications of Training Volume and Intensity in Aging Runners. Medicine and Science in Sports and Exercise, 2018, 50, 510-515.	0.2	14

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19	Quadriceps-strengthening exercise and quadriceps and knee biomechanics during walking in knee osteoarthritis: A two-centre randomized controlled trial. Clinical Biomechanics, 2018, 59, 199-206.	0.5	35
20	A 2-Year Prospective Cohort Study of Overuse Running Injuries: The Runners and Injury Longitudinal Study (TRAILS). American Journal of Sports Medicine, 2018, 46, 2211-2221.	1.9	164
21	Intentional Weight Loss in Overweight and Obese Patients With Knee Osteoarthritis: Is More Better?. Arthritis Care and Research, 2018, 70, 1569-1575.	1.5	102
22	Does frontal knee kinematics predict treatment outcomes? Exploratory analyses from the Intensive Diet and Exercise for Arthritis (IDEA) trial. Gait and Posture, 2018, 63, 139-144.	0.6	3
23	Hip mechanics underlie lower extremity power training-induced increase in old adultsâ€™ fast gait velocity: The Potsdam Gait Study (POGS). Gait and Posture, 2017, 52, 338-344.	0.6	29
24	The effect of Nordic hamstring strength training on muscle architecture, stiffness, and strength. European Journal of Applied Physiology, 2017, 117, 943-953.	1.2	92
25	Weight-loss and exercise for communities with arthritis in North Carolina (we-can): design and rationale of a pragmatic, assessor-blinded, randomized controlled trial. BMC Musculoskeletal Disorders, 2017, 18, 91.	0.8	14
26	Reduced step length reduces knee joint contact forces during running following anterior cruciate ligament reconstruction but does not alter inter-limb asymmetry. Clinical Biomechanics, 2017, 43, 79-85.	0.5	33
27	Power Trainingâ€“induced Increases in Muscle Activation during Gait in Old Adults. Medicine and Science in Sports and Exercise, 2017, 49, 2198-2025.	0.2	12
28	Gait biomechanics of skipping are substantially different than those of running. Journal of Biomechanics, 2017, 64, 180-185.	0.9	8
29	Kinematic Mechanisms of How Power Training Improves Healthy Old Adultsâ€™ Gait Velocity. Medicine and Science in Sports and Exercise, 2017, 49, 150-157.	0.2	12
30	Independent effects of step length and foot strike pattern on tibiofemoral joint forces during running. Journal of Sports Sciences, 2017, 35, 2005-2013.	1.0	29
31	The Relationships between Age and Running Biomechanics. Medicine and Science in Sports and Exercise, 2016, 48, 98-106.	0.2	55
32	Reductions in knee joint forces with weight loss are attenuated by gait adaptations in class III obesity. Gait and Posture, 2016, 45, 25-30.	0.6	23
33	Age and muscle strength mediate the age-related biomechanical plasticity of gait. European Journal of Applied Physiology, 2016, 116, 805-814.	1.2	32
34	Lower Limb Joint Angular Position and Muscle Activity During Elliptical Exercise in Healthy Young Men. Journal of Applied Biomechanics, 2015, 31, 19-27.	0.3	7
35	Males and Females Respond Similarly to Walking With a Standardized, Heavy Load. Military Medicine, 2015, 180, 994-1000.	0.4	30
36	Knee Joint Loading in Knee Osteoarthritis. Medicine and Science in Sports and Exercise, 2014, 46, 1677-1683.	0.2	34

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37	Letter to the Editor on â€œMuscle function during gait is invariant to age when walking speed is controlledâ€•by Lim YP, Lin YC, Pandy MG, Gait Posture 2013;38(2):253â€“9. Gait and Posture, 2014, 39, 999-1000.	0.6	0
38	Strength Training for Arthritis Trial (START): design and rationale. BMC Musculoskeletal Disorders, 2013, 14, 208.	0.8	45
39	Effects of Intensive Diet and Exercise on Knee Joint Loads, Inflammation, and Clinical Outcomes Among Overweight and Obese Adults With Knee Osteoarthritis. JAMA - Journal of the American Medical Association, 2013, 310, 1263.	3.8	607
40	An analysis of foot stiffness in barefoot and traditionally shod runners. Footwear Science, 2013, 5, S132-S133.	0.8	0
41	Evaluation of gait-related variables in lean and obese dogs at a trot. American Journal of Veterinary Research, 2013, 74, 757-762.	0.3	28
42	Trunk position modulates anterior cruciate ligament forces and strains during a single-leg squat. Clinical Biomechanics, 2012, 27, 16-21.	0.5	66
43	Massive weight loss-induced mechanical plasticity in obese gait. Journal of Applied Physiology, 2011, 111, 1391-1399.	1.2	47
44	Association Between Muscle Activation and Metabolic Cost of Walking in Young and Old Adults. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2011, 66A, 541-547.	1.7	118
45	The Interaction of Trunk-Load and Trunk-Position Adaptations on Knee Anterior Shear and Hamstrings Muscle Forces During Landing. Journal of Athletic Training, 2010, 45, 5-15.	0.9	47
46	Teagerâ€“Kaiser energy operator signal conditioning improves EMG onset detection. European Journal of Applied Physiology, 2010, 110, 489-498.	1.2	270
47	The Intensive Diet and Exercise for Arthritis (IDEA) trial: design and rationale. BMC Musculoskeletal Disorders, 2009, 10, 93.	0.8	70
48	Interaction between age and gait velocity in the amplitude and timing of antagonist muscle coactivation. Gait and Posture, 2009, 29, 558-564.	0.6	180
49	Effects of added trunk load and corresponding trunk position adaptations on lower extremity biomechanics during drop-landings. Journal of Biomechanics, 2008, 41, 180-185.	0.9	83
50	How do low horizontal forces produce disproportionately high torques in human locomotion?. Journal of Biomechanics, 2008, 41, 1747-1753.	0.9	13
51	Muscle work is biased toward energy generation over dissipation in non-level running. Journal of Biomechanics, 2008, 41, 3354-3359.	0.9	49
52	Inertial Loading during Gait Evokes Unique Neuromuscular Adaptations in Old Adults. Perceptual and Motor Skills, 2008, 107, 881-892.	0.6	3
53	Risk Factors and Mechanisms of Knee Injury in Runners. Medicine and Science in Sports and Exercise, 2008, 40, 1873-1879.	0.2	63
54	Teager-Kaiser Operator improves the accuracy of EMG onset detection independent of signal-to-noise ratio. Acta of Bioengineering and Biomechanics, 2008, 10, 65-8.	0.2	36

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55	Muscles do more positive than negative work in human locomotion. Journal of Experimental Biology, 2007, 210, 3361-3373.	0.8	147
56	Mechanisms Responsible for the Age-Associated Increase in Coactivation of Antagonist Muscles. Exercise and Sport Sciences Reviews, 2006, 34, 29-35.	1.6	149
57	Weight loss reduces knee-joint loads in overweight and obese older adults with knee osteoarthritis. Arthritis and Rheumatism, 2005, 52, 2026-2032.	6.7	434
58	Altered hamstring-quadriceps muscle balance in patients with knee osteoarthritis. Clinical Biomechanics, 2005, 20, 97-104.	0.5	167
59	Do older adults with knee osteoarthritis place greater loads on the knee during gait? A preliminary study. Archives of Physical Medicine and Rehabilitation, 2005, 86, 703-709.	0.5	73
60	Aberrations in the control of quadriceps muscle force in patients with knee osteoarthritis. Arthritis and Rheumatism, 2004, 51, 562-569.	6.7	178
61	Author's response | Journal of Biomechanics - Volume 37, Issue 10. Journal of Biomechanics, 2004, 37, 1633-1634.	0.9	2
62	Obesity is not associated with increased knee joint torque and power during level walking. Journal of Biomechanics, 2003, 36, 1355-1362.	0.9	230
63	Old Adults Perform Activities of Daily Living Near Their Maximal Capabilities. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2003, 58, M453-M460.	1.7	294
64	Individual Effects of Stride Length and Frequency on Shock Attenuation during Running. Medicine and Science in Sports and Exercise, 2003, 35, 307-313.	0.2	88
65	Functional Knee Brace Alters Predicted Knee Muscle and Joint Forces in People with ACL Reconstruction during Walking. Journal of Applied Biomechanics, 2001, 17, 297-311.	0.3	67
66	Effects of standard and eccentric overload strength training in young women. Medicine and Science in Sports and Exercise, 2001, 33, 1206-1212.	0.2	69
67	Age causes a redistribution of joint torques and powers during gait. Journal of Applied Physiology, 2000, 88, 1804-1811.	1.2	547
68	Muscle pre- and coactivity during downward stepping are associated with leg stiffness in aging. Journal of Electromyography and Kinesiology, 2000, 10, 117-126.	0.7	209
69	Functional Knee Brace Effects During Walking in Patients With Anterior Cruciate Ligament Reconstruction. American Journal of Sports Medicine, 1998, 26, 778-784.	1.9	57
70	Gait biomechanics are not normal after anterior cruciate ligament reconstruction and accelerated rehabilitation. Medicine and Science in Sports and Exercise, 1998, 30, 1481-1488.	0.2	197
71	Gait adaptations before and after anterior cruciate ligament reconstruction surgery. Medicine and Science in Sports and Exercise, 1997, 29, 853-859.	0.2	116
72	Greater initial adaptations to submaximal muscle lengthening than maximal shortening. Journal of Applied Physiology, 1996, 81, 1677-1682.	1.2	183

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73	Errors in alignment of center of pressure and foot coordinates affect predicted lower extremity torques. Journal of Biomechanics, 1995, 28, 985-988.	0.9	103
74	The selection of a standard convention for analyzing gait data based on the analysis of relevant biomechanical factors. Journal of Biomechanics, 1994, 27, 501-508.	0.9	39
75	Effects of a functional knee brace on the biomechanics of running. Medicine and Science in Sports and Exercise, 1992, 24, 797???807.	0.2	45
76	Effect of landing stiffness on joint kinetics and energetics in the lower extremity. Medicine and Science in Sports and Exercise, 1992, 24, 108???115.	0.2	458
77	Lower extremity joint kinetics and energetics during backward running. Medicine and Science in Sports and Exercise, 1991, 23, 602???610.	0.2	45
78	Intrasubject variability of lower extremity joint moments of force during the stance phase of running. Human Movement Science, 1990, 9, 99-115.	0.6	14
79	Intraday reliability of ground reaction force data. Human Movement Science, 1988, 7, 73-85.	0.6	59