

Darren John Stefanyshyn

List of Publications by Year in Descending Order

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Version: 2024-04-28

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

115
papers

4,107
citations

33
h-index

62
g-index

130
ext. papers

4,777
ext. citations

2.5
avg, IF

5.44
L-index

#	Paper	IF	Citations
115	The influence of midsole shear on running economy and smoothness with a 3D-printed midsole.. <i>Sports Biomechanics</i> , 2022 , 1-12	2.2	1
114	Effects of a Curved Heel Shape in a Running Shoe on Biomechanical Variables and Comfort. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 3613	2.6	
113	Measuring Gait Velocity and Stride Length with an Ultrawide Bandwidth Local Positioning System and an Inertial Measurement Unit. <i>Sensors</i> , 2021 , 21,	3.8	3
112	Influence of forefoot bending stiffness on American football performance and metatarsophalangeal joint bending angle. <i>Sports Biomechanics</i> , 2020 , 1-11	2.2	1
111	Influence of Artificial Turf Surface Stiffness on Athlete Performance. <i>Life</i> , 2020 , 10,	3	1
110	Influence of the composition of artificial turf on rotational traction and athlete biomechanics. <i>Journal of Sports Sciences</i> , 2019 , 37, 1849-1856	3.6	0
109	Development of a Footwear Sizing System in the National Football League. <i>Sports Health</i> , 2019 , 11, 40-46.	4.7	5
108	The effects of downhill slope on kinematics and kinetics of the lower extremity joints during running. <i>Gait and Posture</i> , 2019 , 68, 181-186	2.6	12
107	Foot structure and knee joint kinetics during walking with and without wedged footwear insoles. <i>Journal of Biomechanics</i> , 2018 , 73, 192-200	2.9	6
106	Joint kinematics and ground reaction forces in overground versus treadmill graded running. <i>Gait and Posture</i> , 2018 , 63, 109-113	2.6	25
105	Key determinants of time to 5 m in different ventral swimming start techniques. <i>European Journal of Sport Science</i> , 2018 , 18, 1317-1326	3.9	20
104	Effect of torsional stiffness on biomechanical variables of the lower extremity during running. <i>Footwear Science</i> , 2017 , 9, 1-8	1.4	11
103	Motor unit firing frequency of lower limb muscles during an incremental slide board skating test. <i>Sports Biomechanics</i> , 2017 , 16, 540-551	2.2	5
102	Influence of the composition of artificial turf on rotational traction and athlete biomechanics. <i>Footwear Science</i> , 2017 , 9, S40-S42	1.4	1
101	Kinematic and kinetic analysis of overhand, sidearm and underhand lacrosse shot techniques. <i>Journal of Sports Sciences</i> , 2017 , 35, 2350-2356	3.6	5
100	The influence of gearing footwear on running biomechanics. <i>Footwear Science</i> , 2017 , 9, 111-119	1.4	5
99	A three dimensional approach for quantifying resultant loading at the knee. <i>Knee</i> , 2017 , 24, 31-39	2.6	1

98	Validity of a portable force platform for assessing biomechanical parameters in three different tasks. <i>Sports Biomechanics</i> , 2017 , 16, 177-186	2.2	17
97	The effect of translational and rotational traction on lower extremity joint loading. <i>Journal of Sports Sciences</i> , 2016 , 34, 613-20	3.6	8
96	Reduced knee adduction moments for management of knee osteoarthritis:: A three month phase I/II randomized controlled trial. <i>Gait and Posture</i> , 2016 , 50, 60-68	2.6	13
95	A descriptive analysis of the climbing mechanics of a mountain goat (<i>Oreamnos americanus</i>). <i>Zoology</i> , 2016 , 119, 541-546	1.7	7
94	Forefoot bending stiffness, running economy and kinematics during overground running. <i>Footwear Science</i> , 2016 , 8, 91-98	1.4	14
93	The influence of forefoot bending stiffness of footwear on athletic injury and performance. <i>Footwear Science</i> , 2016 , 8, 51-63	1.4	26
92	Effects of strengthening and stretching exercise programmes on kinematics and kinetics of running in older adults: a randomised controlled trial. <i>Journal of Sports Sciences</i> , 2016 , 34, 1774-81	3.6	4
91	Incremental Testing Design on Slide Board for Speed Skaters: Comparison Between Two Different Protocols. <i>Journal of Strength and Conditioning Research</i> , 2016 , 30, 3116-3121	3.2	7
90	Effects of Lateral and Medial Wedged Insoles on Knee and Ankle Internal Joint Moments During Walking in Healthy Men. <i>Journal of the American Podiatric Medical Association</i> , 2016 , 106, 411-418	1	6
89	Control conditions for footwear insole and orthotic research. <i>Gait and Posture</i> , 2016 , 48, 99-105	2.6	25
88	Wedged Insoles and Gait in Patients with Knee Osteoarthritis: A Biomechanical Review. <i>Annals of Biomedical Engineering</i> , 2016 , 44, 3173-3185	4.7	9
87	Effects of changing speed on knee and ankle joint load during walking and running. <i>Journal of Sports Sciences</i> , 2015 , 33, 391-7	3.6	20
86	The influence of ankle strength exercise training on running injury risk factors. <i>Footwear Science</i> , 2015 , 7, S99-S100	1.4	1
85	Control conditions for footwear insole and orthotic research. <i>Footwear Science</i> , 2015 , 7, S159-S161	1.4	
84	Calculation of external knee adduction moments: a comparison of an inverse dynamics approach and a simplified lever-arm approach. <i>Knee</i> , 2015 , 22, 292-7	2.6	10
83	Biomechanics research and sport equipment development. <i>Sports Engineering</i> , 2015 , 18, 191-202	1.4	20
82	Forefoot bending stiffness, running economy and kinematics during overground running. <i>Footwear Science</i> , 2015 , 7, S11-S13	1.4	10
81	Influence of forefoot bending stiffness on American football performance. <i>Footwear Science</i> , 2015 , 7, S141-S142	1.4	3

80	Effects of shoe bending stiffness and surface stiffness on lower extremity biomechanics during running. <i>Footwear Science</i> , 2015 , 7, S4-S6	1.4	3
79	Effects of cold water immersion on lower extremity joint biomechanics during running. <i>Journal of Sports Sciences</i> , 2015 , 33, 449-56	3.6	3
78	Altering Knee Abduction Angular Impulse Using Wedged Insoles for Treatment of Patellofemoral Pain in Runners: A Six-Week Randomized Controlled Trial. <i>PLoS ONE</i> , 2015 , 10, e0134461	3.7	6
77	Hip rotation angle is associated with frontal plane knee joint mechanics during running. <i>Gait and Posture</i> , 2015 , 41, 557-61	2.6	8
76	Postural sway following cryotherapy in healthy adults. <i>Gait and Posture</i> , 2014 , 40, 262-5	2.6	9
75	Flexibility, muscle strength and running biomechanical adaptations in older runners. <i>Clinical Biomechanics</i> , 2014 , 29, 304-10	2.2	44
74	Softer and more resilient running shoe cushioning properties enhance running economy. <i>Footwear Science</i> , 2014 , 6, 147-153	1.4	43
73	The effect of lateral banking on the kinematics and kinetics of the lower extremity during lateral cutting movements. <i>Human Movement Science</i> , 2014 , 33, 97-107	2.4	8
72	The effects of isolated ankle strengthening and functional balance training on strength, running mechanics, postural control and injury prevention in novice runners: design of a randomized controlled trial. <i>BMC Musculoskeletal Disorders</i> , 2014 , 15, 407	2.8	16
71	Shoe traction and surface compliance affect performance of soccer-related movements. <i>Footwear Science</i> , 2014 , 6, 69-80	1.4	25
70	Footwear traction and three-dimensional kinematics of level, downhill, uphill and cross-slope walking. <i>Gait and Posture</i> , 2014 , 40, 118-22	2.6	13
69	The effects of wedged footwear on lower limb frontal plane biomechanics during running. <i>Clinical Journal of Sport Medicine</i> , 2013 , 23, 208-15	3.2	28
68	Running shoe cushioning properties can influence oxygen consumption. <i>Footwear Science</i> , 2013 , 5, S75-S76	1.4	12
67	Effects of artificial turf on performance and ground contact kinetics during a sprint acceleration. <i>Footwear Science</i> , 2013 , 5, S101-S103	1.4	
66	Development and validation of a computerized visual analog scale for the measurement of pain in patients with patellofemoral pain syndrome. <i>Clinical Journal of Sport Medicine</i> , 2013 , 23, 392-6	3.2	4
65	The effects of an unstable shoe on energy expenditure and knee and ankle joint moments during walking in women. <i>Footwear Science</i> , 2013 , 5, S95-S96	1.4	
64	The effect of footwear torsional stiffness on lower extremity kinematics and kinetics during lateral cutting movements. <i>Footwear Science</i> , 2013 , 5, 101-109	1.4	9
63	Traction of clogged golf footwear. <i>Footwear Science</i> , 2013 , 5, 131-135	1.4	1

62	Average torsion axis location of athletic movements: subject specific or movement specific?. <i>Journal of Applied Biomechanics</i> , 2013 , 29, 365-8	1.2	1
61	Normalization of ground reaction forces, joint moments, and free moments in human locomotion. <i>Journal of Applied Biomechanics</i> , 2012 , 28, 665-76	1.2	252
60	Limb force and non-sagittal plane joint moments during maximum-effort curve sprint running in humans. <i>Journal of Experimental Biology</i> , 2012 , 215, 4314-21	3	11
59	Ankle moment generation and maximum-effort curved sprinting performance. <i>Journal of Biomechanics</i> , 2012 , 45, 2763-8	2.9	9
58	The shifting of the torsion axis of the foot during the stance phase of lateral cutting movements. <i>Journal of Biomechanics</i> , 2012 , 45, 2680-3	2.9	12
57	Golfers do not respond to changes in shaft mass properties in a mechanically predictable way. <i>Sports Engineering</i> , 2012 , 15, 215-220	1.4	6
56	Footwear traction at different areas on artificial and natural grass fields. <i>Sports Engineering</i> , 2012 , 15, 111-116	1.4	14
55	Golf players exhibit changes to grip speed parameters during club release in response to changes in club stiffness. <i>Human Movement Science</i> , 2012 , 31, 91-100	2.4	5
54	Pattern classification of kinematic and kinetic running data to distinguish gender, shod/barefoot and injury groups with feature ranking. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2012 , 15, 467-74	2.1	33
53	The effect of normal load, speed and moisture on footwear traction. <i>Footwear Science</i> , 2012 , 4, 37-43	1.4	13
52	A small integrated lateral wedge does not alter knee joint moments during walking. <i>Footwear Science</i> , 2012 , 4, 207-212	1.4	6
51	The effect of shoe torsional stiffness on lower extremity kinematics and biomechanical risk factors for patellofemoral pain syndrome during running. <i>Footwear Science</i> , 2012 , 4, 199-206	1.4	4
50	The influence of golf club shaft stiffness on clubhead kinematics at ball impact. <i>Sports Biomechanics</i> , 2012 , 11, 239-48	2.2	13
49	Early heelstrike kinetics are indicative of slip potential during walking over a contaminated surface. <i>Human Factors</i> , 2012 , 54, 5-13	3.8	9
48	Identification of critical traction values for maximum athletic performance. <i>Footwear Science</i> , 2011 , 3, 127-138	1.4	39
47	Greater Q angle may not be a risk factor of patellofemoral pain syndrome. <i>Clinical Biomechanics</i> , 2011 , 26, 392-6	2.2	29
46	Effects of a noncircular chainring system on muscle activation during cycling. <i>Journal of Electromyography and Kinesiology</i> , 2011 , 21, 13-7	2.5	5
45	Experimental analysis of ice friction in the sport of bobsleigh. <i>Sports Engineering</i> , 2011 , 14, 67-72	1.4	14

44	Influence of leg preference on bilateral muscle activation during cycling. <i>Journal of Sports Sciences</i> , 2011 , 29, 151-9	3.6	16
43	Footwear traction and lower extremity joint loading. <i>American Journal of Sports Medicine</i> , 2010 , 38, 1221-68	3.6	36
42	The influence of soccer cleat design on resultant joint moments. <i>Footwear Science</i> , 2010 , 2, 13-19	1.4	12
41	Does leg preference affect muscle activation and efficiency?. <i>Journal of Electromyography and Kinesiology</i> , 2010 , 20, 1230-6	2.5	10
40	Vibration at the wrist and elbow joints during the golf swing reveals shaft-specific swing kinematics. <i>Procedia Engineering</i> , 2010 , 2, 2637-2642		6
39	Kinematics and Kinetics of the Lower Limbs of a Walking Shoe with a Plate Spring and Cushioning Elements in the Heel during Walking. <i>Korean Journal of Sport Biomechanics</i> , 2010 , 20, 13-23		
38	Relationship between knee joint laxity and knee joint mechanics during the menstrual cycle. <i>British Journal of Sports Medicine</i> , 2009 , 43, 174-9	10.3	46
37	Cycling with noncircular chainring system changes the three-dimensional kinematics of the lower limbs. <i>Sports Biomechanics</i> , 2009 , 8, 275-83	2.2	15
36	Changing hormone levels during the menstrual cycle affect knee laxity and stiffness in healthy female subjects. <i>American Journal of Sports Medicine</i> , 2009 , 37, 588-98	6.8	80
35	Alterations in knee joint laxity during the menstrual cycle in healthy women leads to increases in joint loads during selected athletic movements. <i>American Journal of Sports Medicine</i> , 2009 , 37, 1169-77	6.8	69
34	Optimization of handheld gauge sizes for rocker measurements of skate blades and bobsleigh runners. <i>Sports Engineering</i> , 2009 , 11, 201-206	1.4	
33	Wear influences footwear traction properties in Canadian high school football. <i>Footwear Science</i> , 2009 , 1, 121-127	1.4	11
32	Resultant knee joint moments for lateral movement tasks on sliding and non-sliding sport surfaces. <i>Journal of Sports Sciences</i> , 2009 , 27, 427-35	3.6	22
31	Improved footwear comfort reduces oxygen consumption during running. <i>Footwear Science</i> , 2009 , 1, 25-29	1.4	74
30	Changes in Knee Joint Loading on Infilled Turf with Different Soccer Cleat Designs. <i>Korean Journal of Sport Biomechanics</i> , 2009 , 19, 369-377		1
29	Gait analysis in ankle osteoarthritis and total ankle replacement. <i>Clinical Biomechanics</i> , 2007 , 22, 894-904	4.2	182
28	Knee angular impulse as a predictor of patellofemoral pain in runners. <i>American Journal of Sports Medicine</i> , 2006 , 34, 1844-51	6.8	158
27	The relationship between extension of the metatarsophalangeal joint and sprint time for 100 m Olympic athletes. <i>Journal of Sports Sciences</i> , 2006 , 24, 175-80	3.6	26

26	Foot orthoses affect frequency components of muscle activity in the lower extremity. <i>Gait and Posture</i> , 2006 , 23, 295-302	2.6	63
25	Shoe midsole longitudinal bending stiffness and running economy, joint energy, and EMG. <i>Medicine and Science in Sports and Exercise</i> , 2006 , 38, 562-9	1.2	149
24	Changing the texture of footwear can alter gait patterns. <i>Journal of Electromyography and Kinesiology</i> , 2005 , 15, 496-506	2.5	117
23	Potential method of optimizing the klapskate hinge position in speed skating. <i>Journal of Applied Biomechanics</i> , 2005 , 21, 211-22	1.2	7
22	Relation between running injury and static lower limb alignment in recreational runners. <i>British Journal of Sports Medicine</i> , 2004 , 38, 576-80	10.3	195
21	Increased shoe bending stiffness increases sprint performance. <i>Sports Biomechanics</i> , 2004 , 3, 55-66	2.2	84
20	Consistent Immediate Effects of Foot Orthoses on Comfort and Lower Extremity Kinematics, Kinetics, and Muscle Activity. <i>Journal of Applied Biomechanics</i> , 2004 , 20, 71-84	1.2	26
19	Kinematic changes after fusion and total replacement of the ankle: part 2: Movement transfer. <i>Foot and Ankle International</i> , 2003 , 24, 888-96	3.3	99
18	Kinematic changes after fusion and total replacement of the ankle: part 3: Talar movement. <i>Foot and Ankle International</i> , 2003 , 24, 897-900	3.3	85
17	Effect of shoe inserts on kinematics, center of pressure, and leg joint moments during running. <i>Medicine and Science in Sports and Exercise</i> , 2003 , 35, 314-9	1.2	98
16	Kinematic changes after fusion and total replacement of the ankle: part 1: Range of motion. <i>Foot and Ankle International</i> , 2003 , 24, 881-7	3.3	133
15	The effect of material characteristics of shoe soles on muscle activation and energy aspects during running. <i>Journal of Biomechanics</i> , 2003 , 36, 569-75	2.9	102
14	Foot orthotics affect lower extremity kinematics and kinetics during running. <i>Clinical Biomechanics</i> , 2003 , 18, 254-62	2.2	161
13	Identification of individual walking patterns using time discrete and time continuous data sets. <i>Gait and Posture</i> , 2002 , 15, 180-6	2.6	83
12	Development of a reliable method to assess footwear comfort during running. <i>Gait and Posture</i> , 2002 , 16, 38-45	2.6	171
11	The Influence of High Heeled Shoes on Kinematics, Kinetics, and Muscle EMG of Normal Female Gait. <i>Journal of Applied Biomechanics</i> , 2000 , 16, 309-319	1.2	74
10	Influence of midsole bending stiffness on joint energy and jump height performance. <i>Medicine and Science in Sports and Exercise</i> , 2000 , 32, 471-6	1.2	121
9	Influence of foot, leg and shoe characteristics on subjective comfort. <i>Foot and Ankle International</i> , 2000 , 21, 759-67	3.3	106

8	Relative forefoot abduction and its relationship to foot length in vitro. <i>Clinical Biomechanics</i> , 1999 , 14, 193-202	2.2	5
7	Tibiotalar motion--effect of fibular displacement and deltoid ligament transection: in vitro study. <i>Foot and Ankle International</i> , 1999 , 20, 733-7	3.3	37
6	Contribution of the lower extremity joints to mechanical energy in running vertical jumps and running long jumps. <i>Journal of Sports Sciences</i> , 1998 , 16, 177-86	3.6	102
5	Dynamic Angular Stiffness of the Ankle Joint during Running and Sprinting. <i>Journal of Applied Biomechanics</i> , 1998 , 14, 292-299	1.2	85
4	Effect of shoe insert construction on foot and leg movement. <i>Medicine and Science in Sports and Exercise</i> , 1998 , 30, 550-5	1.2	67
3	A method to determine bone movement in the ankle joint complex in vitro. <i>Journal of Biomechanics</i> , 1997 , 30, 513-6	2.9	20
2	Mechanical energy contribution of the metatarsophalangeal joint to running and sprinting. <i>Journal of Biomechanics</i> , 1997 , 30, 1081-5	2.9	131
1	A pilot study to test the influence of specific prosthetic features in preventing trans-tibial amputees from walking like able-bodied subjects. <i>Prosthetics and Orthotics International</i> , 1994 , 18, 180-90 ⁵	1.5	4