

Darren John Stefanyshyn

List of Publications by Year in descending order

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115
papers

5,335
citations

125106

35
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107981

68
g-index

130
all docs

130
docs citations

130
times ranked

3448
citing authors

#	ARTICLE	IF	CITATIONS
1	Influence of forefoot bending stiffness on American football performance and metatarsophalangeal joint bending angle. Sports Biomechanics, 2023, 22, 704-714.	0.8	2
2	The influence of midsole shear on running economy and smoothness with a 3D-printed midsole. Sports Biomechanics, 2023, 22, 410-421.	0.8	4
3	Effects of a Curved Heel Shape in a Running Shoe on Biomechanical Variables and Comfort. Applied Sciences (Switzerland), 2021, 11, 3613.	1.3	0
4	Measuring Gait Velocity and Stride Length with an Ultrawide Bandwidth Local Positioning System and an Inertial Measurement Unit. Sensors, 2021, 21, 2896.	2.1	8
5	Influence of Artificial Turf Surface Stiffness on Athlete Performance. Life, 2020, 10, 340.	1.1	3
6	Development of a Footwear Sizing System in the National Football League. Sports Health, 2019, 11, 40-46.	1.3	9
7	Influence of the composition of artificial turf on rotational traction and athlete biomechanics. Journal of Sports Sciences, 2019, 37, 1849-1856.	1.0	2
8	The effects of downhill slope on kinematics and kinetics of the lower extremity joints during running. Gait and Posture, 2019, 68, 181-186.	0.6	21
9	Foot structure and knee joint kinetics during walking with and without wedged footwear insoles. Journal of Biomechanics, 2018, 73, 192-200.	0.9	9
10	Key determinants of time to 5â€¦m in different ventral swimming start techniques. European Journal of Sport Science, 2018, 18, 1317-1326.	1.4	29
11	Joint kinematics and ground reaction forces in overground versus treadmill graded running. Gait and Posture, 2018, 63, 109-113.	0.6	39
12	Effect of torsional stiffness on biomechanical variables of the lower extremity during running. Footwear Science, 2017, 9, 1-8.	0.8	17
13	Motor unit firing frequency of lower limb muscles during an incremental slide board skating test. Sports Biomechanics, 2017, 16, 540-551.	0.8	5
14	Influence of the composition of artificial turf on rotational traction and athlete biomechanics. Footwear Science, 2017, 9, S40-S42.	0.8	2
15	Kinematic and kinetic analysis of overhand, sidearm and underhand lacrosse shot techniques. Journal of Sports Sciences, 2017, 35, 2350-2356.	1.0	7
16	The influence of gearing footwear on running biomechanics. Footwear Science, 2017, 9, 111-119.	0.8	9
17	A three dimensional approach for quantifying resultant loading at the knee. Knee, 2017, 24, 31-39.	0.8	3
18	Validity of a portable force platform for assessing biomechanical parameters in three different tasks. Sports Biomechanics, 2017, 16, 177-186.	0.8	32

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19	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.	1.0	9
20	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.	0.2	6
21	Control conditions for footwear insole and orthotic research. <i>Gait and Posture</i> , 2016, 48, 99-105.	0.6	33
22	Wedged Insoles and Gait in Patients with Knee Osteoarthritis: A Biomechanical Review. <i>Annals of Biomedical Engineering</i> , 2016, 44, 3173-3185.	1.3	19
23	Reduced knee adduction moments for management of knee osteoarthritis. <i>Gait and Posture</i> , 2016, 50, 60-68.	0.6	16
24	A descriptive analysis of the climbing mechanics of a mountain goat (<i>Oreamnos americanus</i>). <i>Zoology</i> , 2016, 119, 541-546.	0.6	10
25	Forefoot bending stiffness, running economy and kinematics during overground running. <i>Footwear Science</i> , 2016, 8, 91-98.	0.8	32
26	The influence of forefoot bending stiffness of footwear on athletic injury and performance. <i>Footwear Science</i> , 2016, 8, 51-63.	0.8	38
27	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, 1774-1781.	1.0	4
28	The effect of translational and rotational traction on lower extremity joint loading. <i>Journal of Sports Sciences</i> , 2016, 34, 613-620.	1.0	11
29	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.	1.1	12
30	Hip rotation angle is associated with frontal plane knee joint mechanics during running. <i>Gait and Posture</i> , 2015, 41, 557-561.	0.6	11
31	Effects of changing speed on knee and ankle joint load during walking and running. <i>Journal of Sports Sciences</i> , 2015, 33, 391-397.	1.0	35
32	The influence of ankle strength exercise training on running injury risk factors. <i>Footwear Science</i> , 2015, 7, S99-S100.	0.8	1
33	Control conditions for footwear insole and orthotic research. <i>Footwear Science</i> , 2015, 7, S159-S161.	0.8	0
34	Calculation of external knee adduction moments: A comparison of an inverse dynamics approach and a simplified lever-arm approach. <i>Knee</i> , 2015, 22, 292-297.	0.8	12
35	Biomechanics research and sport equipment development. <i>Sports Engineering</i> , 2015, 18, 191-202.	0.5	27
36	Forefoot bending stiffness, running economy and kinematics during overground running. <i>Footwear Science</i> , 2015, 7, S11-S13.	0.8	14

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37	Influence of forefoot bending stiffness on American football performance. <i>Footwear Science</i> , 2015, 7, S141-S142.	0.8	4
38	Effects of shoe bending stiffness and surface stiffness on lower extremity biomechanics during running. <i>Footwear Science</i> , 2015, 7, S4-S6.	0.8	5
39	Effects of cold water immersion on lower extremity joint biomechanics during running. <i>Journal of Sports Sciences</i> , 2015, 33, 449-456.	1.0	6
40	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.	0.8	21
41	Shoe traction and surface compliance affect performance of soccer-related movements. <i>Footwear Science</i> , 2014, 6, 69-80.	0.8	31
42	Footwear traction and three-dimensional kinematics of level, downhill, uphill and cross-slope walking. <i>Gait and Posture</i> , 2014, 40, 118-122.	0.6	15
43	Postural sway following cryotherapy in healthy adults. <i>Gait and Posture</i> , 2014, 40, 262-265.	0.6	10
44	Flexibility, muscle strength and running biomechanical adaptations in older runners. <i>Clinical Biomechanics</i> , 2014, 29, 304-310.	0.5	56
45	Softer and more resilient running shoe cushioning properties enhance running economy. <i>Footwear Science</i> , 2014, 6, 147-153.	0.8	81
46	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.	0.6	12
47	The Effects of Wedged Footwear on Lower Limb Frontal Plane Biomechanics During Running. <i>Clinical Journal of Sport Medicine</i> , 2013, 23, 208-215.	0.9	33
48	Running shoe cushioning properties can influence oxygen consumption. <i>Footwear Science</i> , 2013, 5, S75-S76.	0.8	16
49	Effects of artificial turf on performance and ground contact kinetics during a sprint acceleration. <i>Footwear Science</i> , 2013, 5, S101-S103.	0.8	0
50	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, 392-396.	0.9	5
51	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.	0.8	0
52	The effect of footwear torsional stiffness on lower extremity kinematics and kinetics during lateral cutting movements. <i>Footwear Science</i> , 2013, 5, 101-109.	0.8	14
53	Traction of clogged golf footwear. <i>Footwear Science</i> , 2013, 5, 131-135.	0.8	1
54	Average Torsion Axis Location of Athletic Movements: Subject Specific or Movement Specific?. <i>Journal of Applied Biomechanics</i> , 2013, 29, 365-368.	0.3	1

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55	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, 467-474.	0.9	41
56	The effect of normal load, speed and moisture on footwear traction. <i>Footwear Science</i> , 2012, 4, 37-43.	0.8	15
57	A small integrated lateral wedge does not alter knee joint moments during walking. <i>Footwear Science</i> , 2012, 4, 207-212.	0.8	6
58	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.	0.8	7
59	The influence of golf club shaft stiffness on clubhead kinematics at ball impact. <i>Sports Biomechanics</i> , 2012, 11, 239-248.	0.8	21
60	Early Heelstrike Kinetics Are Indicative of Slip Potential During Walking Over a Contaminated Surface. <i>Human Factors</i> , 2012, 54, 5-13.	2.1	10
61	Normalization of Ground Reaction Forces, Joint Moments, and Free Moments in Human Locomotion. <i>Journal of Applied Biomechanics</i> , 2012, 28, 665-676.	0.3	419
62	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.	0.8	16
63	Ankle moment generation and maximum-effort curved sprinting performance. <i>Journal of Biomechanics</i> , 2012, 45, 2763-2768.	0.9	13
64	The shifting of the torsion axis of the foot during the stance phase of lateral cutting movements. <i>Journal of Biomechanics</i> , 2012, 45, 2680-2683.	0.9	16
65	Golfers do not respond to changes in shaft mass properties in a mechanically predictable way. <i>Sports Engineering</i> , 2012, 15, 215-220.	0.5	9
66	Footwear traction at different areas on artificial and natural grass fields. <i>Sports Engineering</i> , 2012, 15, 111-116.	0.5	19
67	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.	0.6	6
68	Influence of leg preference on bilateral muscle activation during cycling. <i>Journal of Sports Sciences</i> , 2011, 29, 151-159.	1.0	23
69	Identification of critical traction values for maximum athletic performance. <i>Footwear Science</i> , 2011, 3, 127-138.	0.8	50
70	Greater Q angle may not be a risk factor of Patellofemoral Pain Syndrome. <i>Clinical Biomechanics</i> , 2011, 26, 392-396.	0.5	43
71	Effects of a noncircular chainring system on muscle activation during cycling. <i>Journal of Electromyography and Kinesiology</i> , 2011, 21, 13-17.	0.7	9
72	Experimental analysis of ice friction in the sport of bobsleigh. <i>Sports Engineering</i> , 2011, 14, 67-72.	0.5	19

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73	Vibration at the wrist and elbow joints during the golf swing reveals shaft-specific swing kinematics. <i>Procedia Engineering</i> , 2010, 2, 2637-2642.	1.2	6
74	Footwear Traction and Lower Extremity Joint Loading. <i>American Journal of Sports Medicine</i> , 2010, 38, 1221-1228.	1.9	41
75	The influence of soccer cleat design on resultant joint moments. <i>Footwear Science</i> , 2010, 2, 13-19.	0.8	15
76	Does leg preference affect muscle activation and efficiency?. <i>Journal of Electromyography and Kinesiology</i> , 2010, 20, 1230-1236.	0.7	13
77	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.	0.1	0
78	Relationship between knee joint laxity and knee joint mechanics during the menstrual cycle. <i>British Journal of Sports Medicine</i> , 2009, 43, 174-179.	3.1	60
79	Cycling with noncircular chainring system changes the three-dimensional kinematics of the lower limbs. <i>Sports Biomechanics</i> , 2009, 8, 275-283.	0.8	19
80	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, 588-598.	1.9	95
81	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, 1169-1177.	1.9	82
82	Optimization of handheld gauge sizes for rocker measurements of skate blades and bobsleigh runners. <i>Sports Engineering</i> , 2009, 11, 201-206.	0.5	0
83	Wear influences footwear traction properties in Canadian high school football. <i>Footwear Science</i> , 2009, 1, 121-127.	0.8	12
84	Resultant knee joint moments for lateral movement tasks on sliding and non-sliding sport surfaces. <i>Journal of Sports Sciences</i> , 2009, 27, 427-435.	1.0	25
85	Improved footwear comfort reduces oxygen consumption during running. <i>Footwear Science</i> , 2009, 1, 25-29.	0.8	89
86	Changes in Knee Joint Loading on Infilled Turf with Different Soccer Cleat Designs. <i>Korean Journal of Sport Biomechanics</i> , 2009, 19, 369-377.	0.1	1
87	Gait analysis in ankle osteoarthritis and total ankle replacement. <i>Clinical Biomechanics</i> , 2007, 22, 894-904.	0.5	216
88	Knee Angular Impulse as a Predictor of Patellofemoral Pain in Runners. <i>American Journal of Sports Medicine</i> , 2006, 34, 1844-1851.	1.9	183
89	The relationship between extension of the metatarsophalangeal joint and sprint time for 100 m Olympic athletes. <i>Journal of Sports Sciences</i> , 2006, 24, 175-180.	1.0	32
90	Foot orthoses affect frequency components of muscle activity in the lower extremity. <i>Gait and Posture</i> , 2006, 23, 295-302.	0.6	73

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91	Shoe Midsole Longitudinal Bending Stiffness and Running Economy, Joint Energy, and EMG. <i>Medicine and Science in Sports and Exercise</i> , 2006, 38, 562-569.	0.2	202
92	Potential Method of Optimizing the Klap skate Hinge Position in Speed Skating. <i>Journal of Applied Biomechanics</i> , 2005, 21, 211-222.	0.3	11
93	Changing the texture of footwear can alter gait patterns. <i>Journal of Electromyography and Kinesiology</i> , 2005, 15, 496-506.	0.7	135
94	Relation between running injury and static lower limb alignment in recreational runners. <i>British Journal of Sports Medicine</i> , 2004, 38, 576-580.	3.1	246
95	Athletics. <i>Sports Biomechanics</i> , 2004, 3, 55-66.	0.8	110
96	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.	0.3	34
97	The effect of material characteristics of shoe soles on muscle activation and energy aspects during running. <i>Journal of Biomechanics</i> , 2003, 36, 569-575.	0.9	131
98	Foot orthotics affect lower extremity kinematics and kinetics during running. <i>Clinical Biomechanics</i> , 2003, 18, 254-262.	0.5	193
99	Kinematic Changes After Fusion and Total Replacement of the Ankle Part 2: Movement Transfer. <i>Foot and Ankle International</i> , 2003, 24, 888-896.	1.1	121
100	Kinematic Changes After Fusion and Total Replacement of the Ankle Part 3: Talar Movement. <i>Foot and Ankle International</i> , 2003, 24, 897-900.	1.1	97
101	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, 314-319.	0.2	119
102	Kinematic Changes After Fusion and Total Replacement of the Ankle Part 1: Range of Motion. <i>Foot and Ankle International</i> , 2003, 24, 881-887.	1.1	160
103	Identification of individual walking patterns using time discrete and time continuous data sets. <i>Gait and Posture</i> , 2002, 15, 180-186.	0.6	112
104	Development of a reliable method to assess footwear comfort during running. <i>Gait and Posture</i> , 2002, 16, 38-45.	0.6	211
105	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.	0.3	93
106	Influence of midsole bending stiffness on joint energy and jump height performance. <i>Medicine and Science in Sports and Exercise</i> , 2000, 32, 471.	0.2	160
107	Influence of Foot, Leg and Shoe Characteristics on Subjective Comfort. <i>Foot and Ankle International</i> , 2000, 21, 759-767.	1.1	129
108	Relative forefoot abduction and its relationship to foot length in vitro. <i>Clinical Biomechanics</i> , 1999, 14, 193-202.	0.5	5

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109	Tibiotalar Motion – Effect of Fibular Displacement and Deltoid Ligament Transection: In Vitro Study. <i>Foot and Ankle International</i> , 1999, 20, 733-737.	1.1	44
110	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, 177-186.	1.0	123
111	Dynamic Angular Stiffness of the Ankle Joint during Running and Sprinting. <i>Journal of Applied Biomechanics</i> , 1998, 14, 292-299.	0.3	102
112	Effect of shoe insert construction on foot and leg movement. <i>Medicine and Science in Sports and Exercise</i> , 1998, 30, 550-555.	0.2	85
113	A method to determine bone movement in the ankle joint complex in vitro. <i>Journal of Biomechanics</i> , 1997, 30, 513-516.	0.9	23
114	Mechanical energy contribution of the metatarsophalangeal joint to running and sprinting. <i>Journal of Biomechanics</i> , 1997, 30, 1081-1085.	0.9	162
115	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, 180-190.	0.5	7