

# Brian Pietrosimone

## List of Publications by Year in descending order

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98  
papers

2,684  
citations

201385

27  
h-index

214527

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docs citations

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times ranked

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#	ARTICLE	IF	CITATIONS
1	In Vivo Compositional Changes in the Articular Cartilage of the Patellofemoral Joint Following Anterior Cruciate Ligament Reconstruction. <i>Arthritis Care and Research</i> , 2022, 74, 1172-1178.	1.5	2
2	Cueing Changes in Peak Vertical Ground Reaction Force to Improve Coordination Dynamics in Walking. <i>Journal of Motor Behavior</i> , 2022, 54, 125-134.	0.5	3
3	Gait Biomechanics and Balance Associate with Talar and Subtalar T1 $\rho$ -Relaxation Times in Those with Chronic Ankle Instability. <i>Medicine and Science in Sports and Exercise</i> , 2022, 54, 1013-1019.	0.2	2
4	Fewer daily steps are associated with greater cartilage oligomeric matrix protein response to loading postACL reconstruction. <i>Journal of Orthopaedic Research</i> , 2022, , .	1.2	3
5	Linking Gait Biomechanics and Daily Steps After ACL Reconstruction. <i>Medicine and Science in Sports and Exercise</i> , 2022, 54, 709-716.	0.2	6
6	Arthrogenic Muscle Inhibition Following Anterior Cruciate Ligament Injury. <i>Journal of Sport Rehabilitation</i> , 2022, 31, 694-706.	0.4	22
7	Dorsiflexion and Hop Biomechanics Associate with Greater Talar Cartilage Deformation in Those with Chronic Ankle Instability. <i>Medicine and Science in Sports and Exercise</i> , 2022, 54, 1176-1182.	0.2	1
8	Sex-Specific Associations between Cartilage Structure and Metabolism at Rest and Acutely Following Walking and Drop-Landing. <i>Cartilage</i> , 2021, 13, 1772S-1781S.	1.4	8
9	Athletes after anterior cruciate ligament reconstruction demonstrate asymmetric intracortical facilitation early after surgery. <i>Journal of Orthopaedic Research</i> , 2021, 39, 147-153.	1.2	11
10	Vibration improves gait biomechanics linked to posttraumatic knee osteoarthritis following anterior cruciate ligament injury. <i>Journal of Orthopaedic Research</i> , 2021, 39, 1113-1122.	1.2	9
11	Validation of a Commercially Available Markerless Motion-Capture System for Trunk and Lower Extremity Kinematics During a Jump-Landing Assessment. <i>Journal of Athletic Training</i> , 2021, 56, 177-190.	0.9	10
12	Gait Biomechanics in Individuals Meeting Sufficient Quadriceps Strength Cutoffs After Anterior Cruciate Ligament Reconstruction. <i>Journal of Athletic Training</i> , 2021, 56, 960-966.	0.9	17
13	Acute Talar Cartilage Deformation in Those with and without Chronic Ankle Instability. <i>Medicine and Science in Sports and Exercise</i> , 2021, 53, 1228-1234.	0.2	7
14	Talar and Subtalar T1 $\rho$ -Relaxation Times in Limbs with and without Chronic Ankle Instability. <i>Cartilage</i> , 2021, 13, 1402S-1410S.	1.4	10
15	Changes in Infrapatellar Fat Pad Volume 6 to 12 Months After Anterior Cruciate Ligament Reconstruction and Associations With Patient-Reported Knee Function. <i>Journal of Athletic Training</i> , 2021, 56, 1173-1179.	0.9	5
16	Long-term gait biomechanics in level, uphill, and downhill conditions following anterior cruciate ligament reconstruction. <i>Clinical Biomechanics</i> , 2021, 84, 105345.	0.5	5
17	Feasibility of a Wearable-Based Physical Activity Goal-Setting Intervention Among Individuals With Anterior Cruciate Ligament Reconstruction. <i>Journal of Athletic Training</i> , 2021, 56, 555-564.	0.9	5
18	Association of Jump-Landing Biomechanics With Tibiofemoral Articular Cartilage Composition 12 Months After ACL Reconstruction. <i>Orthopaedic Journal of Sports Medicine</i> , 2021, 9, 232596712110164.	0.8	11

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19	Effects of BMI on Walking Speed and Gait Biomechanics after Anterior Cruciate Ligament Reconstruction. <i>Medicine and Science in Sports and Exercise</i> , 2021, 53, 108-114.	0.2	9
20	A Comparison of Psychological Readiness and Patient-Reported Function Between Sexes After Anterior Cruciate Ligament Reconstruction. <i>Journal of Athletic Training</i> , 2021, 56, 164-169.	0.9	14
21	Somatosensory Function Influences Aberrant Gait Biomechanics Following Anterior Cruciate Ligament Reconstruction. <i>Journal of Orthopaedic Research</i> , 2020, 38, 620-628.	1.2	9
22	Bilateral Gait 6 and 12 Months Post- Anterior Cruciate Ligament Reconstruction Compared with Controls. <i>Medicine and Science in Sports and Exercise</i> , 2020, 52, 785-794.	0.2	40
23	Assessing Step Count-Dependent Changes in Femoral Articular Cartilage Using Ultrasound. <i>Journal of Ultrasound in Medicine</i> , 2020, 39, 957-965.	0.8	5
24	Biofeedback augmenting lower limb loading alters the underlying temporal structure of gait following anterior cruciate ligament reconstruction. <i>Human Movement Science</i> , 2020, 73, 102685.	0.6	6
25	Examination of Corticospinal and Spinal Reflexive Excitability During the Course of Postoperative Rehabilitation After Anterior Cruciate Ligament Reconstruction. <i>Journal of Orthopaedic and Sports Physical Therapy</i> , 2020, 50, 516-522.	1.7	14
26	Managing the Early Risk of Posttraumatic Osteoarthritis Following Anterior Cruciate Ligament Injury. <i>Journal of Science in Sport and Exercise</i> , 2020, 2, 258-264.	0.4	0
27	Using TENS to Enhance Therapeutic Exercise in Individuals with Knee Osteoarthritis. <i>Medicine and Science in Sports and Exercise</i> , 2020, 52, 2086-2095.	0.2	12
28	Biomechanical effects of manipulating peak vertical ground reaction force throughout gait in individuals 6-12 months after anterior cruciate ligament reconstruction. <i>Clinical Biomechanics</i> , 2020, 76, 105014.	0.5	20
29	Decreased Loading During Gait Alters Intralimb Coordination In Anterior Cruciate Ligament Reconstructed Individuals. <i>Medicine and Science in Sports and Exercise</i> , 2020, 52, 246-246.	0.2	1
30	The effects of knee extensor moment biofeedback on gait biomechanics and quadriceps contractile behavior. <i>PeerJ</i> , 2020, 8, e9509.	0.9	11
31	Immediate Biochemical Changes After Gait Biofeedback in Individuals With Anterior Cruciate Ligament Reconstruction. <i>Journal of Athletic Training</i> , 2020, 55, 1106-1115.	0.9	14
32	Ankle Dorsiflexion displacement is associated with hip and knee kinematics in females following anterior cruciate ligament reconstruction. <i>Research in Sports Medicine</i> , 2019, 27, 21-33.	0.7	7
33	Effects of a knee valgus unloader brace on medial femoral articular cartilage deformation following walking in varus-aligned individuals. <i>Knee</i> , 2019, 26, 1067-1072.	0.8	3
34	Anterior Cruciate Ligament Research Retreat VIII Summary Statement: An Update on Injury Risk Identification and Prevention Across the Anterior Cruciate Ligament Injury Continuum, March 14-16, 2019, Greensboro, NC. <i>Journal of Athletic Training</i> , 2019, 54, 970-984.	0.9	28
35	Prevalence of and Risk Factors for Total Hip and Knee Replacement in Retired National Football League Athletes. <i>American Journal of Sports Medicine</i> , 2019, 47, 2863-2870.	1.9	13
36	Co-activation during gait following anterior cruciate ligament reconstruction. <i>Clinical Biomechanics</i> , 2019, 67, 153-159.	0.5	23

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37	Deficits in Quadriceps Force Control After Anterior Cruciate Ligament Injury: Potential Central Mechanisms. <i>Journal of Athletic Training</i> , 2019, 54, 505-512.	0.9	20
38	Body Mass Index and Type 2 Collagen Turnover in Individuals After Anterior Cruciate Ligament Reconstruction. <i>Journal of Athletic Training</i> , 2019, 54, 270-275.	0.9	11
39	Gait Mechanics and T1 $\rho$ -MRI of Tibiofemoral Cartilage 6 Months after ACL Reconstruction. <i>Medicine and Science in Sports and Exercise</i> , 2019, 51, 630-639.	0.2	65
40	Walking Biomechanics Six and Twelve Months Following Anterior Cruciate Ligament Reconstruction Compared to Healthy Controls. <i>Medicine and Science in Sports and Exercise</i> , 2019, 51, 265-265.	0.2	4
41	Quadriceps weakness associates with greater T1 $\rho$ -relaxation time in the medial femoral articular cartilage 6 months following anterior cruciate ligament reconstruction. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2019, 27, 2632-2642.	2.3	39
42	Walking Ground Reaction Force Post-ACL Reconstruction: Analysis of Time and Symptoms. <i>Medicine and Science in Sports and Exercise</i> , 2019, 51, 246-254.	0.2	49
43	Females Decrease Vertical Ground Reaction Forces Following 4-Week Jump-Landing Feedback Intervention Without Negative Affect on Vertical Jump Performance. <i>Journal of Sport Rehabilitation</i> , 2019, 28, 866-870.	0.4	4
44	Gait biomechanics in individuals with patellar tendon and hamstring tendon anterior cruciate ligament reconstruction grafts. <i>Journal of Biomechanics</i> , 2019, 82, 103-108.	0.9	13
45	Nonlinear Dynamic Measures for Evaluating Postural Control in Individuals With and Without Chronic Ankle Instability. <i>Motor Control</i> , 2019, 23, 243-261.	0.3	9
46	Demographic and surgical factors affect quadriceps strength after ACL reconstruction. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2019, 27, 921-930.	2.3	36
47	Acute Serum Cartilage Biomarker Response after Walking and Drop Landing. <i>Medicine and Science in Sports and Exercise</i> , 2018, 50, 1465-1471.	0.2	10
48	Quadriceps Function, Knee Pain, and Self-Reported Outcomes in Patients With Anterior Cruciate Ligament Reconstruction. <i>Journal of Athletic Training</i> , 2018, 53, 337-346.	0.9	49
49	Peak knee biomechanics and limb symmetry following unilateral anterior cruciate ligament reconstruction: Associations of walking gait and jump-landing outcomes. <i>Clinical Biomechanics</i> , 2018, 53, 79-85.	0.5	19
50	Quadriceps Neuromuscular Function and Jump-Landing Sagittal-Plane Knee Biomechanics After Anterior Cruciate Ligament Reconstruction. <i>Journal of Athletic Training</i> , 2018, 53, 135-143.	0.9	53
51	Associations between cartilage proteoglycan density and patient outcomes 12 months following anterior cruciate ligament reconstruction. <i>Knee</i> , 2018, 25, 118-129.	0.8	29
52	Time between anterior cruciate ligament injury and reconstruction and cartilage metabolism six-months following reconstruction. <i>Knee</i> , 2018, 25, 296-305.	0.8	7
53	The association between habitual walking speed and medial femoral cartilage deformation following 30 minutes of walking. <i>Gait and Posture</i> , 2018, 59, 128-133.	0.6	17
54	Evaluation of Agreement Between Participant and Expert on Jump-Landing Characteristics During a 4-Week Intervention. <i>Journal of Sport Rehabilitation</i> , 2018, 27, 536-540.	0.4	1

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55	Weak associations between body mass index and self-reported disability in people with unilateral anterior cruciate ligament reconstruction. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2018, 26, 1326-1334.	2.3	9
56	Associations Between Slower Walking Speed and T1 $\rho$ -Magnetic Resonance Imaging of Femoral Cartilage Following Anterior Cruciate Ligament Reconstruction. <i>Arthritis Care and Research</i> , 2018, 70, 1132-1140.	1.5	43
57	Comprehensively Assessing the Acute Femoral Cartilage Response and Recovery after Walking and Drop-Landing: An Ultrasonographic Study. <i>Ultrasound in Medicine and Biology</i> , 2018, 44, 311-320.	0.7	27
58	Ultrasonographic Assessment of Femoral Cartilage in Individuals With Anterior Cruciate Ligament Reconstruction: A Case-Control Study. <i>Journal of Athletic Training</i> , 2018, 53, 1082-1088.	0.9	17
59	Lesser lower extremity mechanical loading associates with a greater increase in serum cartilage oligomeric matrix protein following walking in individuals with anterior cruciate ligament reconstruction. <i>Clinical Biomechanics</i> , 2018, 60, 13-19.	0.5	27
60	Quadriceps Rate of Torque Development and Disability in Persons With Tibiofemoral Osteoarthritis. <i>Journal of Orthopaedic and Sports Physical Therapy</i> , 2018, 48, 694-703.	1.7	8
61	Walking gait asymmetries 6 months following anterior cruciate ligament reconstruction predict 12-month patient-reported outcomes. <i>Journal of Orthopaedic Research</i> , 2018, 36, 2932-2940.	1.2	46
62	Association between kinesiophobia and walking gait characteristics in physically active individuals with anterior cruciate ligament reconstruction. <i>Gait and Posture</i> , 2018, 64, 220-225.	0.6	15
63	Real-time biofeedback can increase and decrease vertical ground reaction force, knee flexion excursion, and knee extension moment during walking in individuals with anterior cruciate ligament reconstruction. <i>Journal of Biomechanics</i> , 2018, 76, 94-102.	0.9	39
64	Certified Athletic Trainers' Knowledge and Perceptions of Posttraumatic Osteoarthritis After Knee Injury. <i>Journal of Athletic Training</i> , 2017, 52, 541-559.	0.9	8
65	Greater intracortical inhibition associates with lower quadriceps voluntary activation in individuals with ACL reconstruction. <i>Experimental Brain Research</i> , 2017, 235, 1129-1137.	0.7	46
66	Biochemical markers of cartilage metabolism are associated with walking biomechanics 6 months following anterior cruciate ligament reconstruction. <i>Journal of Orthopaedic Research</i> , 2017, 35, 2288-2297.	1.2	84
67	Quadriceps rate of torque development and disability in individuals with anterior cruciate ligament reconstruction. <i>Clinical Biomechanics</i> , 2017, 46, 52-56.	0.5	25
68	Whole-Body Vibration Improves Early Rate of Torque Development in Individuals With Anterior Cruciate Ligament Reconstruction. <i>Journal of Strength and Conditioning Research</i> , 2017, 31, 2992-3000.	1.0	20
69	The Role of Athletic Trainers in Preventing and Managing Posttraumatic Osteoarthritis in Physically Active Populations: a Consensus Statement of the Athletic Trainers' Osteoarthritis Consortium. <i>Journal of Athletic Training</i> , 2017, 52, 610-623.	0.9	17
70	Osteoarthritis Prevalence in Retired National Football League Players With a History of Concussion and Lower Extremity Injury. <i>Journal of Athletic Training</i> , 2017, 52, 518-525.	0.9	16
71	Risk of Knee Osteoarthritis Over 24 Months in Individuals Who Decrease Walking Speed During a 12-Month Period: Data from the Osteoarthritis Initiative. <i>Journal of Rheumatology</i> , 2017, 44, 1265-1270.	1.0	17
72	Understanding, Detecting, and Managing the Risk of Posttraumatic Osteoarthritis Following Anterior Cruciate Ligament Reconstruction in the Military. <i>North Carolina Medical Journal</i> , 2017, 78, 327-328.	0.1	6

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73	Patient Knowledge and Beliefs About Knee Osteoarthritis After Anterior Cruciate Ligament Injury and Reconstruction. <i>Arthritis Care and Research</i> , 2016, 68, 1180-1185.	1.5	13
74	Immediate effect of vibratory stimuli on quadriceps function in healthy adults. <i>Muscle and Nerve</i> , 2016, 54, 469-478.	1.0	30
75	Walking Speed As a Potential Indicator of Cartilage Breakdown Following Anterior Cruciate Ligament Reconstruction. <i>Arthritis Care and Research</i> , 2016, 68, 793-800.	1.5	34
76	Persistent Muscle Inhibition after Anterior Cruciate Ligament Reconstruction. <i>Medicine and Science in Sports and Exercise</i> , 2016, 48, 2370-2377.	0.2	20
77	Corticospinal Excitability and Inhibition of the Soleus in Individuals With Chronic Ankle Instability. <i>PM and R</i> , 2016, 8, 1090-1096.	0.9	28
78	Quadriceps cortical adaptations in individuals with an anterior cruciate ligament injury. <i>Knee</i> , 2016, 23, 582-587.	0.8	27
79	Sagittal plane kinematics predict kinetics during walking gait in individuals with anterior cruciate ligament reconstruction. <i>Clinical Biomechanics</i> , 2016, 39, 9-13.	0.5	27
80	Inter-limb differences in impulsive loading following anterior cruciate ligament reconstruction in females. <i>Journal of Biomechanics</i> , 2016, 49, 3017-3021.	0.9	26
81	The contribution of leg press and knee extension strength and power to physical function in people with knee osteoarthritis: A cross-sectional study. <i>Knee</i> , 2016, 23, 942-949.	0.8	18
82	Quadriceps Strength Predicts Self-reported Function Post-ACL Reconstruction. <i>Medicine and Science in Sports and Exercise</i> , 2016, 48, 1671-1677.	0.2	102
83	Quadriceps Function and Gait Kinetics after Anterior Cruciate Ligament Reconstruction. <i>Medicine and Science in Sports and Exercise</i> , 2016, 48, 1664-1670.	0.2	78
84	Measuring voluntary quadriceps activation: Effect of visual feedback and stimulus delivery. <i>Journal of Electromyography and Kinesiology</i> , 2016, 26, 73-81.	0.7	39
85	Cortical motor representation of the rectus femoris does not differ between the left and right hemisphere. <i>Journal of Electromyography and Kinesiology</i> , 2016, 28, 46-52.	0.7	10
86	Whole-Body and Local Muscle Vibration Immediately Improve Quadriceps Function in Individuals With Anterior Cruciate Ligament Reconstruction. <i>Archives of Physical Medicine and Rehabilitation</i> , 2016, 97, 1121-1129.	0.5	42
87	Jumpâ€“landing biomechanics following a 4-week real-time feedback intervention and retention. <i>Clinical Biomechanics</i> , 2016, 32, 85-91.	0.5	29
88	Greater Mechanical Loading During Walking Is Associated With Less Collagen Turnover in Individuals With Anterior Cruciate Ligament Reconstruction. <i>American Journal of Sports Medicine</i> , 2016, 44, 425-432.	1.9	76
89	Concussion Frequency Associates with Musculoskeletal Injury in Retired NFL Players. <i>Medicine and Science in Sports and Exercise</i> , 2015, 47, 2366-2372.	0.2	64
90	Alterations in stride-to-stride variability during walking in individuals with chronic ankle instability. <i>Human Movement Science</i> , 2015, 40, 154-162.	0.6	48

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91	Immediate increases in quadriceps corticomotor excitability during an electromyography biofeedback intervention. <i>Journal of Electromyography and Kinesiology</i> , 2015, 25, 316-322.	0.7	30
92	Clinical Strategies for Addressing Muscle Weakness Following Knee Injury. <i>Clinics in Sports Medicine</i> , 2015, 34, 285-300.	0.9	13
93	Neuromuscular deficits after peripheral joint injury: A neurophysiological hypothesis. <i>Muscle and Nerve</i> , 2015, 51, 327-332.	1.0	72
94	The Immediate Effects of an Anterior-To-Posterior Talar Mobilization on Neural Excitability, Dorsiflexion Range of Motion, and Dynamic Balance in Patients With Chronic Ankle Instability. <i>Journal of Sport Rehabilitation</i> , 2014, 23, 351-359.	0.4	32
95	Changes in voluntary quadriceps activation predict changes in muscle strength and gait biomechanics following knee joint effusion. <i>Clinical Biomechanics</i> , 2014, 29, 923-929.	0.5	25
96	Association between quadriceps strength and self-reported physical activity in people with knee osteoarthritis. <i>International Journal of Sports Physical Therapy</i> , 2014, 9, 320-8.	0.5	24
97	Quadriceps Activation Following Knee Injuries: A Systematic Review. <i>Journal of Athletic Training</i> , 2010, 45, 87-97.	0.9	378
98	Sagittal plane knee joint moments following anterior cruciate ligament injury and reconstruction: A systematic review. <i>Clinical Biomechanics</i> , 2010, 25, 277-283.	0.5	128