Brian Pietrosimone

List of Publications by Year
in descending order

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98 papers	2,684 citations	201385 27 h-index	214527 47 g-index
98 all docs	98 docs citations	98 times ranked	1698 citing authors

#	Article	IF	Citations
1	Quadriceps Activation Following Knee Injuries: A Systematic Review. Journal of Athletic Training, 2010, 45, 87-97.	0.9	378
2	Sagittal plane knee joint moments following anterior cruciate ligament injury and reconstruction: A systematic review. Clinical Biomechanics, 2010, 25, 277-283.	0.5	128
3	Quadriceps Strength Predicts Self-reported Function Post-ACL Reconstruction. Medicine and Science in Sports and Exercise, 2016, 48, 1671-1677.	0.2	102
4	Biochemical markers of cartilage metabolism are associated with walking biomechanics 6â€•months following anterior cruciate ligament reconstruction. Journal of Orthopaedic Research, 2017, 35, 2288-2297.	1.2	84
5	Quadriceps Function and Gait Kinetics after Anterior Cruciate Ligament Reconstruction. Medicine and Science in Sports and Exercise, 2016, 48, 1664-1670.	0.2	78
6	Greater Mechanical Loading During Walking Is Associated With Less Collagen Turnover in Individuals With Anterior Cruciate Ligament Reconstruction. American Journal of Sports Medicine, 2016, 44, 425-432.	1.9	76
7	Neuromuscular deficits after peripheral joint injury: A neurophysiological hypothesis. Muscle and Nerve, 2015, 51, 327-332.	1.0	72
8	Gait Mechanics and T1Ï•MRI of Tibiofemoral Cartilage 6 Months after ACL Reconstruction. Medicine and Science in Sports and Exercise, 2019, 51, 630-639.	0.2	65
9	Concussion Frequency Associates with Musculoskeletal Injury in Retired NFL Players. Medicine and Science in Sports and Exercise, 2015, 47, 2366-2372.	0.2	64
10	Quadriceps Neuromuscular Function and Jump-Landing Sagittal-Plane Knee Biomechanics After Anterior Cruciate Ligament Reconstruction. Journal of Athletic Training, 2018, 53, 135-143.	0.9	53
11	Quadriceps Function, Knee Pain, and Self-Reported Outcomes in Patients With Anterior Cruciate Ligament Reconstruction. Journal of Athletic Training, 2018, 53, 337-346.	0.9	49
12	Walking Ground Reaction Force Post-ACL Reconstruction: Analysis of Time and Symptoms. Medicine and Science in Sports and Exercise, 2019, 51, 246-254.	0.2	49
13	Alterations in stride-to-stride variability during walking in individuals with chronic ankle instability. Human Movement Science, 2015, 40, 154-162.	0.6	48
14	Greater intracortical inhibition associates with lower quadriceps voluntary activation in individuals with ACL reconstruction. Experimental Brain Research, 2017, 235, 1129-1137.	0.7	46
15	Walking gait asymmetries 6 months following anterior cruciate ligament reconstruction predict 12â€•month patientâ€•reported outcomes. Journal of Orthopaedic Research, 2018, 36, 2932-2940.	1.2	46
16	Associations Between Slower Walking Speed and T1Ï•Magnetic Resonance Imaging of Femoral Cartilage Following Anterior Cruciate Ligament Reconstruction. Arthritis Care and Research, 2018, 70, 1132-1140.	1.5	43
17	Whole-Body and Local Muscle Vibration Immediately Improve Quadriceps Function in Individuals With Anterior Cruciate Ligament Reconstruction. Archives of Physical Medicine and Rehabilitation, 2016, 97, 1121-1129.	0.5	42
18	Bilateral Gait 6 and 12 Months Postâ€“Anterior Cruciate Ligament Reconstruction Compared with Controls. Medicine and Science in Sports and Exercise, 2020, 52, 785-794.	0.2	40

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19	Measuring voluntary quadriceps activation: Effect of visual feedback and stimulus delivery. Journal of Electromyography and Kinesiology, 2016, 26, 73-81.	0.7	39
20	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. Journal of Biomechanics, 2018, 76, 94-102.	0.9	39
21	Quadriceps weakness associates with greater T1Ï•relaxation time in the medial femoral articular cartilage 6Âmonths following anterior cruciate ligament reconstruction. Knee Surgery, Sports Traumatology, Arthroscopy, 2019, 27, 2632-2642.	2.3	39
22	Demographic and surgical factors affect quadriceps strength after ACL reconstruction. Knee Surgery, Sports Traumatology, Arthroscopy, 2019, 27, 921-930.	2.3	36
23	Walking Speed As a Potential Indicator of Cartilage Breakdown Following Anterior Cruciate Ligament Reconstruction. Arthritis Care and Research, 2016, 68, 793-800.	1.5	34
24	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. Journal of Sport Rehabilitation, 2014, 23, 351-359.	0.4	32
25	Immediate increases in quadriceps corticomotor excitability during an electromyography biofeedback intervention. Journal of Electromyography and Kinesiology, 2015, 25, 316-322.	0.7	30
26	Immediate effect of vibratory stimuli on quadriceps function in healthy adults. Muscle and Nerve, 2016, 54, 469-478.	1.0	30
27	Jumpâ€“landing biomechanics following a 4-week real-time feedback intervention and retention. Clinical Biomechanics, 2016, 32, 85-91.	0.5	29
28	Associations between cartilage proteoglycan density and patient outcomes 12 months following anterior cruciate ligament reconstruction. Knee, 2018, 25, 118-129.	0.8	29
29	Corticospinal Excitability and Inhibition of the Soleus in Individuals With Chronic Ankle Instability. PM and R, 2016, 8, 1090-1096.	0.9	28
30	Anterior Cruciate Ligament Research Retreat VIII Summary Statement: An Update on Injury Risk Identification and Prevention Across the Anterior Cruciate Ligament Injury Continuum, March 14â€“16, 2019, Greensboro, NC. Journal of Athletic Training, 2019, 54, 970-984.	0.9	28
31	Quadriceps cortical adaptations in individuals with an anterior cruciate ligament injury. Knee, 2016, 23, 582-587.	0.8	27
32	Sagittal plane kinematics predict kinetics during walking gait in individuals with anterior cruciate ligament reconstruction. Clinical Biomechanics, 2016, 39, 9-13.	0.5	27
33	Comprehensively Assessing the Acute Femoral Cartilage Response and Recovery after Walking and Drop-Landing: An Ultrasonographic Study. Ultrasound in Medicine and Biology, 2018, 44, 311-320.	0.7	27
34	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. Clinical Biomechanics, 2018, 60, 13-19.	0.5	27
35	Inter-limb differences in impulsive loading following anterior cruciate ligament reconstruction in females. Journal of Biomechanics, 2016, 49, 3017-3021.	0.9	26
36	Changes in voluntary quadriceps activation predict changes in muscle strength and gait biomechanics following knee joint effusion. Clinical Biomechanics, 2014, 29, 923-929.	0.5	25

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37	Quadriceps rate of torque development and disability in individuals with anterior cruciate ligament reconstruction. Clinical Biomechanics, 2017, 46, 52-56.	0.5	25
38	Association between quadriceps strength and self-reported physical activity in people with knee osteoarthritis. International Journal of Sports Physical Therapy, 2014, 9, 320-8.	0.5	24
39	Co-activation during gait following anterior cruciate ligament reconstruction. Clinical Biomechanics, 2019, 67, 153-159.	0.5	23
40	Arthrogenic Muscle Inhibition Following Anterior Cruciate Ligament Injury. Journal of Sport Rehabilitation, 2022, 31, 694-706.	0.4	22
41	Persistent Muscle Inhibition after Anterior Cruciate Ligament Reconstruction. Medicine and Science in Sports and Exercise, 2016, 48, 2370-2377.	0.2	20
42	Whole-Body Vibration Improves Early Rate of Torque Development in Individuals With Anterior Cruciate Ligament Reconstruction. Journal of Strength and Conditioning Research, 2017, 31, 2992-3000.	1.0	20
43	Deficits in Quadriceps Force Control After Anterior Cruciate Ligament Injury: Potential Central Mechanisms. Journal of Athletic Training, 2019, 54, 505-512.	0.9	20
44	Biomechanical effects of manipulating peak vertical ground reaction force throughout gait in individuals 6â€“12Âmonths after anterior cruciate ligament reconstruction. Clinical Biomechanics, 2020, 76, 105014.	0.5	20
45	Peak knee biomechanics and limb symmetry following unilateral anterior cruciate ligament reconstruction: Associations of walking gait and jump-landing outcomes. Clinical Biomechanics, 2018, 53, 79-85.	0.5	19
46	The contribution of leg press and knee extension strength and power to physical function in people with knee osteoarthritis: A cross-sectional study. Knee, 2016, 23, 942-949.	0.8	18
47	The Role of Athletic Trainers in Preventing and Managing Posttraumatic Osteoarthritis in Physically Active Populations: a Consensus Statement of the Athletic Trainers' Osteoarthritis Consortiuma. Journal of Athletic Training, 2017, 52, 610-623.	0.9	17
48	The association between habitual walking speed and medial femoral cartilage deformation following 30 minutes of walking. Gait and Posture, 2018, 59, 128-133.	0.6	17
49	Ultrasonographic Assessment of Femoral Cartilage in Individuals With Anterior Cruciate Ligament Reconstruction: A Case-Control Study. Journal of Athletic Training, 2018, 53, 1082-1088.	0.9	17
50	Gait Biomechanics in Individuals Meeting Sufficient Quadriceps Strength Cutoffs After Anterior Cruciate Ligament Reconstruction. Journal of Athletic Training, 2021, 56, 960-966.	0.9	17
51	Risk of Knee Osteoarthritis Over 24 Months in Individuals Who Decrease Walking Speed During a 12-Month Period: Data from the Osteoarthritis Initiative. Journal of Rheumatology, 2017, 44, 1265-1270.	1.0	17
52	Osteoarthritis Prevalence in Retired National Football League Players With a History of Concussion and Lower Extremity Injury. Journal of Athletic Training, 2017, 52, 518-525.	0.9	16
53	Association between kinesiophobia and walking gait characteristics in physically active individuals with anterior cruciate ligament reconstruction. Gait and Posture, 2018, 64, 220-225.	0.6	15
54	Examination of Corticospinal and Spinal Reflexive Excitability During the Course of Postoperative Rehabilitation After Anterior Cruciate Ligament Reconstruction. Journal of Orthopaedic and Sports Physical Therapy, 2020, 50, 516-522.	1.7	14

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55	A Comparison of Psychological Readiness and Patient-Reported Function Between Sexes After Anterior Cruciate Ligament Reconstruction. Journal of Athletic Training, 2021, 56, 164-169.	0.9	14
56	Immediate Biochemical Changes After Gait Biofeedback in Individuals With Anterior Cruciate Ligament Reconstruction. Journal of Athletic Training, 2020, 55, 1106-1115.	0.9	14
57	Clinical Strategies for Addressing Muscle Weakness Following Knee Injury. Clinics in Sports Medicine, 2015, 34, 285-300.	0.9	13
58	Patient Knowledge and Beliefs About Knee Osteoarthritis After Anterior Cruciate Ligament Injury and Reconstruction. Arthritis Care and Research, 2016, 68, 1180-1185.	1.5	13
59	Prevalence of and Risk Factors for Total Hip and Knee Replacement in Retired National Football League Athletes. American Journal of Sports Medicine, 2019, 47, 2863-2870.	1.9	13
60	Gait biomechanics in individuals with patellar tendon and hamstring tendon anterior cruciate ligament reconstruction grafts. Journal of Biomechanics, 2019, 82, 103-108.	0.9	13
61	Using TENS to Enhance Therapeutic Exercise in Individuals with Knee Osteoarthritis. Medicine and Science in Sports and Exercise, 2020, 52, 2086-2095.	0.2	12
62	Body Mass Index and Type 2 Collagen Turnover in Individuals After Anterior Cruciate Ligament Reconstruction. Journal of Athletic Training, 2019, 54, 270-275.	0.9	11
63	Athletes after anterior cruciate ligament reconstruction demonstrate asymmetric intracortical facilitation early after surgery. Journal of Orthopaedic Research, 2021, 39, 147-153.	1.2	11
64	Association of Jump-Landing Biomechanics With Tibiofemoral Articular Cartilage Composition 12 Months After ACL Reconstruction. Orthopaedic Journal of Sports Medicine, 2021, 9, 232596712110164.	0.8	11
65	The effects of knee extensor moment biofeedback on gait biomechanics and quadriceps contractile behavior. PeerJ, 2020, 8, e9509.	0.9	11
66	Cortical motor representation of the rectus femoris does not differ between the left and right hemisphere. Journal of Electromyography and Kinesiology, 2016, 28, 46-52.	0.7	10
67	Acute Serum Cartilage Biomarker Response after Walking and Drop Landing. Medicine and Science in Sports and Exercise, 2018, 50, 1465-1471.	0.2	10
68	Validation of a Commercially Available Markerless Motion-Capture System for Trunk and Lower Extremity Kinematics During a Jump-Landing Assessment. Journal of Athletic Training, 2021, 56, 177-190.	0.9	10
69	Talar and Subtalar T1Ï•Relaxation Times in Limbs with and without Chronic Ankle Instability. Cartilage, 2021, 13, 1402S-1410S.	1.4	10
70	Weak associations between body mass index and self-reported disability in people with unilateral anterior cruciate ligament reconstruction. Knee Surgery, Sports Traumatology, Arthroscopy, 2018, 26, 1326-1334.	2.3	9
71	Nonlinear Dynamic Measures for Evaluating Postural Control in Individuals With and Without Chronic Ankle Instability. Motor Control, 2019, 23, 243-261.	0.3	9
72	Somatosensory Function Influences Aberrant Gait Biomechanics Following Anterior Cruciate Ligament Reconstruction. Journal of Orthopaedic Research, 2020, 38, 620-628.	1.2	9

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73	Vibration improves gait biomechanics linked to posttraumatic knee osteoarthritis following anterior cruciate ligament injury. Journal of Orthopaedic Research, 2021, 39, 1113-1122.	1.2	9
74	Effects of BMI on Walking Speed and Gait Biomechanics after Anterior Cruciate Ligament Reconstruction. Medicine and Science in Sports and Exercise, 2021, 53, 108-114.	0.2	9
75	Certified Athletic Trainers' Knowledge and Perceptions of Posttraumatic Osteoarthritis After Knee Injury. Journal of Athletic Training, 2017, 52, 541-559.	0.9	8
76	Quadriceps Rate of Torque Development and Disability in Persons With Tibiofemoral Osteoarthritis. Journal of Orthopaedic and Sports Physical Therapy, 2018, 48, 694-703.	1.7	8
77	Sex-Specific Associations between Cartilage Structure and Metabolism at Rest and Acutely Following Walking and Drop-Landing. Cartilage, 2021, 13, 1772S-1781S.	1.4	8
78	Time between anterior cruciate ligament injury and reconstruction and cartilage metabolism six-months following reconstruction. Knee, 2018, 25, 296-305.	0.8	7
79	Ankle Dorsiflexion displacement is associated with hip and knee kinematics in females following anterior cruciate ligament reconstruction. Research in Sports Medicine, 2019, 27, 21-33.	0.7	7
80	Acute Talar Cartilage Deformation in Those with and without Chronic Ankle Instability. Medicine and Science in Sports and Exercise, 2021, 53, 1228-1234.	0.2	7
81	Biofeedback augmenting lower limb loading alters the underlying temporal structure of gait following anterior cruciate ligament reconstruction. Human Movement Science, 2020, 73, 102685.	0.6	6
82	Linking Gait Biomechanics and Daily Steps After ACL Reconstruction. Medicine and Science in Sports and Exercise, 2022, 54, 709-716.	0.2	6
83	Understanding, Detecting, and Managing the Risk of Posttraumatic Osteoarthritis Following Anterior Cruciate Ligament Reconstruction in the Military. North Carolina Medical Journal, 2017, 78, 327-328.	0.1	6
84	Assessing Step Countâ€“Dependent Changes in Femoral Articular Cartilage Using Ultrasound. Journal of Ultrasound in Medicine, 2020, 39, 957-965.	0.8	5
85	Changes in Infrapatellar Fat Pad Volume 6 to 12 Months After Anterior Cruciate Ligament Reconstruction and Associations With Patient-Reported Knee Function. Journal of Athletic Training, 2021, 56, 1173-1179.	0.9	5
86	Long-term gait biomechanics in level, uphill, and downhill conditions following anterior cruciate ligament reconstruction. Clinical Biomechanics, 2021, 84, 105345.	0.5	5
87	Feasibility of a Wearable-Based Physical Activity Goal-Setting Intervention Among Individuals With Anterior Cruciate Ligament Reconstruction. Journal of Athletic Training, 2021, 56, 555-564.	0.9	5
88	Walking Biomechanics Six and Twelve Months Following Anterior Cruciate Ligament Reconstruction Compared to Healthy Controls. Medicine and Science in Sports and Exercise, 2019, 51, 265-265.	0.2	4
89	Females Decrease Vertical Ground Reaction Forces Following 4-Week Jump-Landing Feedback Intervention Without Negative Affect on Vertical Jump Performance. Journal of Sport Rehabilitation, 2019, 28, 866-870.	0.4	4
90	Effects of a knee valgus unloader brace on medial femoral articular cartilage deformation following walking in varus-aligned individuals. Knee, 2019, 26, 1067-1072.	0.8	3

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91	Cueing Changes in Peak Vertical Ground Reaction Force to Improve Coordination Dynamics in Walking. Journal of Motor Behavior, 2022, 54, 125-134.	0.5	3
92	Fewer daily steps are associated with greater cartilage oligomeric matrix protein response to loading postâ€ACL reconstruction. Journal of Orthopaedic Research, 2022, , .	1.2	3
93	In Vivo Compositional Changes in the Articular Cartilage of the Patellofemoral Joint Following Anterior Cruciate Ligament Reconstruction. Arthritis Care and Research, 2022, 74, 1172-1178.	1.5	2
94	Gait Biomechanics and Balance Associate with Talar and Subtalar T1Ï•Relaxation Times in Those with Chronic Ankle Instability. Medicine and Science in Sports and Exercise, 2022, 54, 1013-1019.	0.2	2
95	Evaluation of Agreement Between Participant and Expert on Jump-Landing Characteristics During a 4-Week Intervention. Journal of Sport Rehabilitation, 2018, 27, 536-540.	0.4	1
96	Decreased Loading During Gait Alters Intralimb Coordination In Anterior Cruciate Ligament Reconstructed Individuals. Medicine and Science in Sports and Exercise, 2020, 52, 246-246.	0.2	1
97	Dorsiflexion and Hop Biomechanics Associate with Greater Talar Cartilage Deformation in Those with Chronic Ankle Instability. Medicine and Science in Sports and Exercise, 2022, 54, 1176-1182.	0.2	1
98	Managing the Early Risk of Posttraumatic Osteoarthritis Following Anterior Cruciate Ligament Injury. Journal of Science in Sport and Exercise, 2020, 2, 258-264.	0.4	0