Thomas P Andriacchi

List of Publications by Year
in descending order

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40 papers	4,903 citations	245449 24 h-index	299175 39 g-index
40 all docs	40 docs citations	40 times ranked	3623 citing authors

#	Article	IF	Citations
1	Vertical ground reaction force 2 years after anterior cruciate ligament reconstruction predicts 10â€year patientâ€reported outcomes. Journal of Orthopaedic Research, 2022, 40, 129-137.	2.4	6
2	Cartilage oligomeric matrix protein responses to a mechanical stimulus associate with ambulatory loading in individuals with anterior cruciate ligament reconstruction. Journal of Orthopaedic Research, 2022, 40, 791-798.	2.4	4
3	Analyzing Femorotibial Cartilage Thickness Using Anatomically Standardized Maps: Reproducibility and Reference Data. Journal of Clinical Medicine, 2021, 10, 461.	2.5	6
4	Patient-Reported Outcomes and Knee Mechanics Correlate With Patellofemoral Deep Cartilage UTE-T2* 2 Years After Anterior Cruciate Ligament Reconstruction. American Journal of Sports Medicine, 2021, 49, 675-683.	4.3	13
5	Visualizing preâ€osteoarthritis: Integrating MRI UTEâ€T2* with mechanics and biology to combat osteoarthritisâ€"The 2019 Elizabeth Winston Lanier Kappa Delta Award. Journal of Orthopaedic Research, 2021, 39, 1585-1595.	2.4	11
6	Intermittent vibrational stimulation enhances mobility during stair navigation in patients with knee pain. Gait and Posture, 2021, 86, 125-131.	1.6	4
7	Utilizing the somatosensory system via vibratory stimulation to mitigate knee pain during walking: Randomized clinical trial. Gait and Posture, 2020, 80, 37-43.	1.6	5
8	Changes in stair ascent biomechanics two to eight years after ACL reconstruction are associated with patient-reported outcomes. Gait and Posture, 2019, 69, 91-95.	1.6	6
9	Activating the somatosensory system enhances net quadriceps moment during gait. Journal of Biomechanics, 2019, 82, 149-155.	2.1	10
10	Sensitivity of serum concentration of cartilage biomarkers to 21â€days of bed rest. Journal of Orthopaedic Research, 2018, 36, 1465-1471.	2.4	25
11	Modeling knee osteoarthritis pathophysiology using an integrated joint system (IJS): a systematic review of relationships among cartilage thickness, gait mechanics, and subchondral bone mineral density. Osteoarthritis and Cartilage, 2018, 26, 1425-1437.	1.3	27
12	Anatomically Standardized Maps Reveal Distinct Patterns of Cartilage Thickness With Increasing Severity of Medial Compartment Knee Osteoarthritis. Journal of Orthopaedic Research, 2017, 35, 2442-2451.	2.4	35
13	The Nature of Age-Related Differences in Knee Function during Walking: Implication for the Development of Knee Osteoarthritis. PLoS ONE, 2016, 11, e0167352.	2.5	12
14	Baseline ambulatory knee kinematics are associated with changes in cartilage thickness in osteoarthritic patients over 5 years. Journal of Biomechanics, 2016, 49, 1859-1864.	2.1	47
15	General scheme to reduce the knee adduction moment by modifying a combination of gait variables. Journal of Orthopaedic Research, 2016, 34, 1547-1556.	2.4	78
16	Modification of Knee Flexion Angle Has Patient-Specific Effects on Anterior Cruciate Ligament Injury Risk Factors During Jump Landing. American Journal of Sports Medicine, 2016, 44, 1540-1546.	4.3	26
17	The role of inflammation in the initiation of osteoarthritis after meniscal damage. Journal of Biomechanics, 2015, 48, 1420-1426.	2.1	58
18	Relationship Between Knee Mechanics and Time Since Injury in ACL-Deficient Knees Without Signs of Osteoarthritis. American Journal of Sports Medicine, 2015, 43, 1189-1196.	4.3	18

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19	Dance between biology, mechanics, and structure: A systems-based approach to developing osteoarthritis prevention strategies. Journal of Orthopaedic Research, 2015, 33, 939-947.	2.4	72
20	Alterations in Knee Kinematics After Partial Medial Meniscectomy Are Activity Dependent. American Journal of Sports Medicine, 2015, 43, 1399-1407.	4.3	26
21	New insight in the relationship between regional patterns of knee cartilage thickness, osteoarthritis disease severity, and gait mechanics. Journal of Biomechanics, 2015, 48, 3868-3875.	2.1	71
22	A Systems View of Risk Factors for Knee Osteoarthritis Reveals Insights into the Pathogenesis of the Disease. Annals of Biomedical Engineering, 2015, 43, 376-387.	2.6	114
23	Evidence for joint moment asymmetry in healthy populations during gait. Gait and Posture, 2014, 40, 526-531.	1.6	36
24	The Nature of In Vivo Mechanical Signals That Influence Cartilage Health and Progression to Knee Osteoarthritis. Current Rheumatology Reports, 2014, 16, 463.	4.9	95
25	The in vivo relationship between anterior neutral tibial position and loss of knee extension after transtibial ACL reconstruction. Knee, 2014, 21, 74-79.	1.6	16
26	Special Issues No.3 : Measurement Technique for Ergonomics, Section 1-1 : â€œMeasurement of Body Motionâ€• Ningen Kogaku = the Japanese Journal of Ergonomics, 2014, 50, 172-181.	0.1	3
27	Three-dimensional knee moments of ACL reconstructed and control subjects during gait, stair ascent, and stair descent. Journal of Biomechanics, 2013, 46, 515-520.	2.1	118
28	Sensitivity of gait parameters to the effects of antiâ€•inflammatory and opioid treatments in knee osteoarthritis patients. Journal of Orthopaedic Research, 2012, 30, 1118-1124.	2.4	50
29	Gait changes in patients with knee osteoarthritis are replicated by experimental knee pain. Arthritis Care and Research, 2010, 62, 501-509.	3.8	144
30	Gait Mechanics Influence Healthy Cartilage Morphology and Osteoarthritis of the Knee. Journal of Bone and Joint Surgery - Series A, 2009, 91, 95-101.	3.0	408
31	Knee Kinematics, Cartilage Morphology, and Osteoarthritis after ACL Injury. Medicine and Science in Sports and Exercise, 2008, 40, 215-222.	0.4	316
32	Accurately measuring human movement using articulated ICP with soft-joint constraints and a repository of articulated models. , 2007, , .		60
33	Rotational Changes at the Knee after ACL Injury Cause Cartilage Thinning. Clinical Orthopaedics and Related Research, 2006, 442, 39-44.	1.5	289
34	The role of ambulatory mechanics in the initiation and progression of knee osteoarthritis. Current Opinion in Rheumatology, 2006, 18, 514-518.	4.4	488
35	Interactions between kinematics and loading during walking for the normal and ACL deficient knee. Journal of Biomechanics, 2005, 38, 293-298.	2.1	337
36	Secondary gait changes in patients with medial compartment knee osteoarthritis: Increased load at the ankle, knee, and hip during walking. Arthritis and Rheumatism, 2005, 52, 2835-2844.	6.8	582

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37	A Framework for the in Vivo Pathomechanics of Osteoarthritis at the Knee. Annals of Biomedical Engineering, 2004, 32, 447-457.	2.6	843
38	Secondary motions of the knee during weight bearing and non-weight bearing activities. Journal of Orthopaedic Research, 2004, 22, 794-800.	2.4	124
39	Mechanical loads at the knee joint during deep flexion. Journal of Orthopaedic Research, 2002, 20, 881-886.	2.4	194
40	Dynamic Function after Anterior Cruciate Ligament Reconstruction with Autologous Patellar Tendon. American Journal of Sports Medicine, 2001, 29, 36-41.	4.3	126