

# Thomas P Andriacchi

## List of Publications by Year in descending order

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Version: 2024-02-01

43  
papers

4,847  
citations

257450

24  
h-index

289244

40  
g-index

43  
all docs

43  
docs citations

43  
times ranked

3260  
citing authors

#	ARTICLE	IF	CITATIONS
1	A Framework for the in Vivo Pathomechanics of Osteoarthritis at the Knee. <i>Annals of Biomedical Engineering</i> , 2004, 32, 447-457.	2.5	830
2	Secondary gait changes in patients with medial compartment knee osteoarthritis: Increased load at the ankle, knee, and hip during walking. <i>Arthritis and Rheumatism</i> , 2005, 52, 2835-2844.	6.7	574
3	The role of ambulatory mechanics in the initiation and progression of knee osteoarthritis. <i>Current Opinion in Rheumatology</i> , 2006, 18, 514-518.	4.3	476
4	Gait Mechanics Influence Healthy Cartilage Morphology and Osteoarthritis of the Knee. <i>Journal of Bone and Joint Surgery - Series A</i> , 2009, 91, 95-101.	3.0	394
5	Interactions between kinematics and loading during walking for the normal and ACL deficient knee. <i>Journal of Biomechanics</i> , 2005, 38, 293-298.	2.1	333
6	Knee Kinematics, Cartilage Morphology, and Osteoarthritis after ACL Injury. <i>Medicine and Science in Sports and Exercise</i> , 2008, 40, 215-222.	0.4	306
7	Rotational Changes at the Knee after ACL Injury Cause Cartilage Thinning. <i>Clinical Orthopaedics and Related Research</i> , 2006, 442, 39-44.	1.5	285
8	Mechanical loads at the knee joint during deep flexion. <i>Journal of Orthopaedic Research</i> , 2002, 20, 881-886.	2.3	192
9	Gait changes in patients with knee osteoarthritis are replicated by experimental knee pain. <i>Arthritis Care and Research</i> , 2010, 62, 501-509.	3.4	134
10	Dynamic Function after Anterior Cruciate Ligament Reconstruction with Autologous Patellar Tendon. <i>American Journal of Sports Medicine</i> , 2001, 29, 36-41.	4.2	125
11	Secondary motions of the knee during weight bearing and non-weight bearing activities. <i>Journal of Orthopaedic Research</i> , 2004, 22, 794-800.	2.3	123
12	Three-dimensional knee moments of ACL reconstructed and control subjects during gait, stair ascent, and stair descent. <i>Journal of Biomechanics</i> , 2013, 46, 515-520.	2.1	116
13	A Systems View of Risk Factors for Knee Osteoarthritis Reveals Insights into the Pathogenesis of the Disease. <i>Annals of Biomedical Engineering</i> , 2015, 43, 376-387.	2.5	106
14	The Nature of In Vivo Mechanical Signals That Influence Cartilage Health and Progression to Knee Osteoarthritis. <i>Current Rheumatology Reports</i> , 2014, 16, 463.	4.7	90
15	Establishing outcome measures in early knee osteoarthritis. <i>Nature Reviews Rheumatology</i> , 2019, 15, 438-448.	8.0	88
16	General scheme to reduce the knee adduction moment by modifying a combination of gait variables. <i>Journal of Orthopaedic Research</i> , 2016, 34, 1547-1556.	2.3	74
17	Dance between biology, mechanics, and structure: A systems-based approach to developing osteoarthritis prevention strategies. <i>Journal of Orthopaedic Research</i> , 2015, 33, 939-947.	2.3	70
18	New insight in the relationship between regional patterns of knee cartilage thickness, osteoarthritis disease severity, and gait mechanics. <i>Journal of Biomechanics</i> , 2015, 48, 3868-3875.	2.1	67

#	ARTICLE	IF	CITATIONS
19	Accurately measuring human movement using articulated ICP with soft-joint constraints and a repository of articulated models. , 2007, , .		60
20	The role of inflammation in the initiation of osteoarthritis after meniscal damage. Journal of Biomechanics, 2015, 48, 1420-1426.	2.1	56
21	Sensitivity of gait parameters to the effects of anti-inflammatory and opioid treatments in knee osteoarthritis patients. Journal of Orthopaedic Research, 2012, 30, 1118-1124.	2.3	49
22	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
23	Evidence for joint moment asymmetry in healthy populations during gait. Gait and Posture, 2014, 40, 526-531.	1.4	36
24	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.	2.3	33
25	Alterations in Knee Kinematics After Partial Medial Meniscectomy Are Activity Dependent. American Journal of Sports Medicine, 2015, 43, 1399-1407.	4.2	26
26	Sensitivity of serum concentration of cartilage biomarkers to 21 days of bed rest. Journal of Orthopaedic Research, 2018, 36, 1465-1471.	2.3	25
27	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.	4.2	24
28	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.	4.2	18
29	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	15
30	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
31	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.	4.2	10
32	Visualizing pre-osteoarthritis: Integrating MRI UTE-T2* with mechanics and biology to combat osteoarthritis. The 2019 Elizabeth Winston Lanier Kappa Delta Award. Journal of Orthopaedic Research, 2021, 39, 1585-1595.	2.3	10
33	Activating the somatosensory system enhances net quadriceps moment during gait. Journal of Biomechanics, 2019, 82, 149-155.	2.1	8
34	Analyzing Femorotibial Cartilage Thickness Using Anatomically Standardized Maps: Reproducibility and Reference Data. Journal of Clinical Medicine, 2021, 10, 461.	2.4	6
35	Response to letter to the editor regarding "Application of principal component analysis in clinical gait research". Journal of Biomechanics, 2014, 47, 1555-1556.	2.1	5
36	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.	1.4	5

#	ARTICLE	IF	CITATIONS
37	Vertical ground reaction force 2 years after anterior cruciate ligament reconstruction predicts 10-year patient-reported outcomes. <i>Journal of Orthopaedic Research</i> , 2022, 40, 129-137.	2.3	5
38	Utilizing the somatosensory system via vibratory stimulation to mitigate knee pain during walking: Randomized clinical trial. <i>Gait and Posture</i> , 2020, 80, 37-43.	1.4	4
39	Cartilage oligomeric matrix protein responses to a mechanical stimulus associate with ambulatory loading in individuals with anterior cruciate ligament reconstruction. <i>Journal of Orthopaedic Research</i> , 2022, 40, 791-798.	2.3	4
40	Special Issues No.3 : Measurement Technique for Ergonomics, Section 1-1 : Measurement of Body Motion. Ningen Kogaku = the Japanese Journal of Ergonomics, 2014, 50, 172-181.	0.1	3
41	Intermittent vibrational stimulation enhances mobility during stair navigation in patients with knee pain. <i>Gait and Posture</i> , 2021, 86, 125-131.	1.4	2
42	Inter-Subject Variability in Ground Reaction Force - Walking Speed Relationship Is Related to Different Motion of the Center of Mass. , 2009, , .		1
43	Femoral Acetabular Impingement Labral Pathology on MRI is Correlated with Greater Hip Flexion and Decreased Abduction in Collegiate Water Polo Players - A Pilot Study. <i>Journal of ISAKOS</i> , 2021, 7, 7-12.	2.3	0