James A Ashton-Miller

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

81 papers	3,213 citations	27 h-index	56 g-index
85 ext. papers	3,663 ext. citations	3.6 avg, IF	5.24 L-index

#	Paper	IF	Citations
81	Multi-label classification of pelvic organ prolapse using stress magnetic resonance imaging with deep learning.. *International Urogynecology Journal*, **2022**, 1	2	
80	On the Management of Maternal Pushing During the Second Stage of Labor: A Biomechanical Study Considering Passive Tissue Fatigue Damage Accumulation.. *American Journal of Obstetrics and Gynecology*, **2022**,	6.4	1
79	Letter to the editor: Stress urinary incontinence is caused predominantly by urethral support failure.. *International Urogynecology Journal*, **2022**, 1	2	0
78	The Lateral Femoral Condyle Index Is Not a Risk Factor for Primary Noncontact Anterior Cruciate Ligament Injury. *American Journal of Sports Medicine*, **2021**, 3635465211057271	6.8	
77	Pelvic floor muscle injury during a difficult labor. Can tissue fatigue damage play a role?. *International Urogynecology Journal*, **2021**, 33, 211	2	2
76	On Structure-Function Relationships in the Female Human Urethra: A Finite Element Model Approach. *Annals of Biomedical Engineering*, **2021**, 49, 1848-1860	4.7	0
75	Loading mechanisms of the anterior cruciate ligament. *Sports Biomechanics*, **2021**, 1-29	2.2	4
74	Feasibility of a deep learning-based method for automated localization of pelvic floor landmarks using stress MR images. *International Urogynecology Journal*, **2021**, 32, 3069-3075	2	1
73	The Anterior Cruciate Ligament Can Become Hypertrophied in Response to Mechanical Loading: A Magnetic Resonance Imaging Study in Elite Athletes. *American Journal of Sports Medicine*, **2021**, 49, 2371-2378	6.8	2
72	Clinical-Grade MRI-Based Methods to Identify Combined Anatomic Factors That Predict ACL Injury Risk in Male and Female Athletes. *American Journal of Sports Medicine*, **2021**, 49, 2615-2623	6.8	1
71	Injuries in Muscle-Tendon-Bone Units: A Systematic Review Considering the Role of Passive Tissue Fatigue. *Orthopaedic Journal of Sports Medicine*, **2021**, 9, 23259671211020731	3.5	5
70	A new 3D stress MRI measurement strategy to quantify surgical correction of prolapse in three support systems. *Neurourology and Urodynamics*, **2021**, 40, 1989-1998	2.3	0
69	Mechanisms of hiatus failure in prolapse: a multifaceted evaluation. *International Urogynecology Journal*, **2021**, 32, 1545-1553	2	1
68	Convolutional neural network-based pelvic floor structure segmentation using magnetic resonance imaging in pelvic organ prolapse. *Medical Physics*, **2020**, 47, 4281-4293	4.4	4
67	Subsequent Use of a Pressure Sensor to Record Intra-Abdominal Pressure After Maximum Vaginal Closure Force in a Clinical Trial. *IEEE Journal of Translational Engineering in Health and Medicine*, **2020**, 8, 2500208	3	3
66	On the importance of the hip abductors during a clinical one legged balance test: A theoretical study. *PLoS ONE*, **2020**, 15, e0242454	3.7	0
65	Association of pubovisceral muscle tear with functional capacity of urethral closure: evaluating maternal recovery from labor and delivery. *American Journal of Obstetrics and Gynecology*, **2020**, 222, 598.e1-598.e7	6.4	4

64	Comparison of anorectal function measured using wearable digital manometry and a high resolution manometry system. *PLoS ONE*, **2020**, 15, e0228761	3.7	2
63	A clinical method of evaluating simple reaction time and reaction accuracy is sensitive to a single dose of lorazepam. *Journal of Psychopharmacology*, **2020**, 34, 920-925	4.6	3
62	From molecular to macro: the key role of the apical ligaments in uterovaginal support. *American Journal of Obstetrics and Gynecology*, **2020**, 222, 427-436	6.4	11
61	Levator bowl volume during straining and its relationship to other levator measures. *International Urogynecology Journal*, **2019**, 30, 1457-1463	2	5
60	Efficacy of a personalised pelvic floor muscle training programme on urinary incontinence after radical prostatectomy (MaTchUP): protocol for a randomised controlled trial. *BMJ Open*, **2019**, 9, e028288	2	12
59	Morphology of Mouse Anterior Cruciate Ligament-Complex Changes Following Exercise During Pubertal Growth. *Journal of Orthopaedic Research*, **2019**, 37, 1910-1919	3.8	5
58	Comparison of measurement systems for posterior vaginal wall prolapse on magnetic resonance imaging. *International Urogynecology Journal*, **2019**, 30, 1269-1277	2	3
57	Association of index finger palpatory assessment of pubovisceral muscle body integrity with MRI-documented tear. *Neurourology and Urodynamics*, **2019**, 38, 1120-1128	2.3	2
56	Technique development and measurement of cross-sectional area of the pubovisceral muscle on MRI scans of living women. *International Urogynecology Journal*, **2019**, 30, 1305-1312	2	2
55	An Anterior Cruciate Ligament Failure Mechanism. *American Journal of Sports Medicine*, **2019**, 47, 2067-2076	6.8	17
54	A constitutive model description of the in vivo material properties of lower birth canal tissue during the first stage of labor. *Journal of the Mechanical Behavior of Biomedical Materials*, **2018**, 79, 213-218	4.1	6
53	On the variation in maternal birth canal in vivo viscoelastic properties and their effect on the predicted length of active second stage and levator ani tears. *Journal of Biomechanics*, **2018**, 74, 64-71	2.9	5
52	Femoral entheseal shape and attachment angle as potential risk factors for anterior cruciate ligament injury. *Journal of the Mechanical Behavior of Biomedical Materials*, **2018**, 88, 313-321	4.1	8
51	Comparison of Head Impact Exposure Between Male and Female High School Ice Hockey Athletes. *American Journal of Sports Medicine*, **2018**, 46, 2253-2262	6.8	18
50	On the apparent decrease in Olympic sprinter reaction times. *PLoS ONE*, **2018**, 13, e0198633	3.7	1
49	Association Between Lateral Posterior Tibial Slope, Body Mass Index, and ACL Injury Risk. *Orthopaedic Journal of Sports Medicine*, **2017**, 5, 2325967116688664	3.5	27
48	Complex and Simple Clinical Reaction Times Are Associated with Gait, Balance, and Major Fall Injury in Older Subjects with Diabetic Peripheral Neuropathy. *American Journal of Physical Medicine and Rehabilitation*, **2017**, 96, 8-16	2.6	25
47	Intraoperative cervix location and apical support stiffness in women with and without pelvic organ prolapse. *American Journal of Obstetrics and Gynecology*, **2017**, 216, 155.e1-155.e8	6.4	9

46	Expert Panel Recommendations on Lower Urinary Tract Health of Women Across Their Life Span. *Journal of Womens Health*, **2016**, 25, 1086-1096	3	10
45	Structural Failure Sites in Anterior Vaginal Wall Prolapse: Identification of a Collinear Triad. *Obstetrics and Gynecology*, **2016**, 128, 853-862	4.9	24
44	Traction force needed to reproduce physiologically observed uterine movement: technique development, feasibility assessment, and preliminary findings. *International Urogynecology Journal*, **2016**, 27, 1227-34	2	8
43	Restriction in hip internal rotation is associated with an increased risk of ACL injury. *Knee Surgery, Sports Traumatology, Arthroscopy*, **2016**, 24, 2024-31	5.5	38
42	Accuracy of Clinical Techniques for Evaluating Lower Limb Sensorimotor Functions Associated With Increased Fall Risk. *PM and R*, **2016**, 8, 331-339	2.2	6
41	Poster 195 A Pilot Study of Resistance Exercise Targeting the Neck in Youth Athletes. *PM and R*, **2016**, 8, S224-S225	2.2	
40	New perspectives on ACL injury: On the role of repetitive sub-maximal knee loading in causing ACL fatigue failure. *Journal of Orthopaedic Research*, **2016**, 34, 2059-2068	3.8	27
39	In vivo estimation of perineal body properties using ultrasound quasistatic elastography in nulliparous women. *Journal of Biomechanics*, **2015**, 48, 1575-9	2.9	22
38	Risk of anterior cruciate ligament fatigue failure is increased by limited internal femoral rotation during in vitro repeated pivot landings. *American Journal of Sports Medicine*, **2015**, 43, 2233-41	6.8	27
37	RELIABILITY AND CRITERION VALIDITY OF A NOVEL CLINICAL TEST OF SIMPLE AND COMPLEX REACTION TIME IN ATHLETES. *Perceptual and Motor Skills*, **2015**, 120, 841-59	2.2	24
36	A multi-compartment 3-D finite element model of rectocele and its interaction with cystocele. *Journal of Biomechanics*, **2015**, 48, 1580-6	2.9	26
35	Anatomy of the pubovisceral muscle origin: Macroscopic and microscopic findings within the injury zone. *Neurourology and Urodynamics*, **2015**, 34, 774-80	2.3	20
34	In vivo properties of uterine suspensory tissue in pelvic organ prolapse. *Journal of Biomechanical Engineering*, **2014**, 136, 021016	2.1	26
33	Using stress MRI to analyze the 3D changes in apical ligament geometry from rest to maximal Valsalva: a pilot study. *International Urogynecology Journal*, **2014**, 25, 197-203	2	28
32	The length of anterior vaginal wall exposed to external pressure on maximal straining MRI: relationship to urogenital hiatus diameter, and apical and bladder location. *International Urogynecology Journal*, **2014**, 25, 1349-56	2	24
31	Step length after discrete perturbation predicts accidental falls and fall-related injury in elderly people with a range of peripheral neuropathy. *Journal of Diabetes and Its Complications*, **2014**, 28, 79-84	3.2	14
30	Does limited internal femoral rotation increase peak anterior cruciate ligament strain during a simulated pivot landing?. *American Journal of Sports Medicine*, **2014**, 42, 2955-63	6.8	30
29	Validity and reliability of an instrumented speculum designed to minimize the effect of intra-abdominal pressure on the measurement of pelvic floor muscle strength. *Clinical Biomechanics*, **2014**, 29, 1146-50	2.2	25

28	A novel technique to measure in vivo uterine suspensory ligament stiffness. *American Journal of Obstetrics and Gynecology*, **2013**, 209, 484.e1-7	6.4	22
27	Anterior cruciate ligament fatigue failures in knees subjected to repeated simulated pivot landings. *American Journal of Sports Medicine*, **2013**, 41, 1058-66	6.8	53
26	Effect of axial tibial torque direction on ACL relative strain and strain rate in an in vitro simulated pivot landing. *Journal of Orthopaedic Research*, **2012**, 30, 528-34	3.8	55
25	3D analysis of cystoceles using magnetic resonance imaging assessing midline, paravaginal, and apical defects. *International Urogynecology Journal*, **2012**, 23, 285-93	2	45
24	Morphologic characteristics help explain the gender difference in peak anterior cruciate ligament strain during a simulated pivot landing. *American Journal of Sports Medicine*, **2012**, 40, 32-40	6.8	78
23	A novel clinical test of recognition reaction time in healthy adults. *Psychological Assessment*, **2012**, 24, 249-54	5.3	23
22	What strains the anterior cruciate ligament during a pivot landing?. *American Journal of Sports Medicine*, **2012**, 40, 574-83	6.8	108
21	Effects of Gender and Hand Dominance on Children's Capacity to Hang onto an Overhead Rung with One Hand. *Proceedings of the Human Factors and Ergonomics Society*, **2012**, 56, 2055-2059	0.4	
20	The relationship between anterior tibial acceleration, tibial slope, and ACL strain during a simulated jump landing task. *Journal of Bone and Joint Surgery - Series A*, **2011**, 93, 1310-7	5.6	109
19	Can a clinical test of reaction time predict a functional head-protective response?. *Medicine and Science in Sports and Exercise*, **2011**, 43, 382-7	1.2	31
18	Effect of ACL transection on internal tibial rotation in an in vitro simulated pivot landing. *Journal of Bone and Joint Surgery - Series A*, **2011**, 93, 372-80	5.6	34
17	A 3D finite element model of anterior vaginal wall support to evaluate mechanisms underlying cystocele formation. *Journal of Biomechanics*, **2009**, 42, 1371-1377	2.9	97
16	On the biomechanics of vaginal birth and common sequelae. *Annual Review of Biomedical Engineering*, **2009**, 11, 163-76	12	171
15	Effect of varying hamstring tension on anterior cruciate ligament strain during in vitro impulsive knee flexion and compression loading. *Journal of Bone and Joint Surgery - Series A*, **2008**, 90, 815-23	5.6	105
14	Functional anatomy of the female pelvic floor. *Annals of the New York Academy of Sciences*, **2007**, 1101, 266-96	6.5	288
13	Comparison of levator ani muscle defects and function in women with and without pelvic organ prolapse. *Obstetrics and Gynecology*, **2007**, 109, 295-302	4.9	500
12	The relationship between quadriceps muscle force, knee flexion, and anterior cruciate ligament strain in an in vitro simulated jump landing. *American Journal of Sports Medicine*, **2006**, 34, 269-74	6.8	138
11	The effect of an impulsive knee valgus moment on in vitro relative ACL strain during a simulated jump landing. *Clinical Biomechanics*, **2006**, 21, 977-83	2.2	142

10	Effects of progressive resistance training on the contractile function of permeabilized single muscle fibers from the vastus lateralis muscle of older women. *FASEB Journal*, **2006**, 20, A382	0.9	
9	Thoracic hyperkyphosis in the young athlete: a review of the biomechanical issues. *Current Sports Medicine Reports*, **2004**, 3, 47-52	1.9	6
8	Inversion and eversion strengths in the weightbearing ankle of young women. Effects of plantar flexion and basketball shoe height. *American Journal of Sports Medicine*, **2001**, 29, 219-25	6.8	18
7	Can proprioception really be improved by exercises?. *Knee Surgery, Sports Traumatology, Arthroscopy*, **2001**, 9, 128-36	5.5	163
6	The association between athletic training time and the sagittal curvature of the immature spine. *American Journal of Sports Medicine*, **2000**, 28, 490-8	6.8	120
5	What leads to age and gender differences in balance maintenance and recovery?. *Muscle and Nerve*, **1997**, 20, 60-64	3.4	53
4	Do neural factors underlie age differences in rapid ankle torque development?. *Journal of the American Geriatrics Society*, **1996**, 44, 804-8	5.6	35
3	Stepping responses of young and old adults to postural disturbances: kinematics. *Journal of the American Geriatrics Society*, **1994**, 42, 506-12	5.6	167
2	A closed-loop system for maintaining constant experimental muscle pain in man. *IEEE Transactions on Biomedical Engineering*, **1993**, 40, 344-52	5	59
1	Trunk positioning accuracy in children 7-18 years old. *Journal of Orthopaedic Research*, **1992**, 10, 217-25	3.8	25