

Mario Lamontagne

List of Publications by Year in descending order

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Version: 2024-02-01

60
papers

2,571
citations

185998

28
h-index

189595

50
g-index

61
all docs

61
docs citations

61
times ranked

1944
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of skin movement artifact on knee kinematics during gait and cutting motions measured in vivo. <i>Gait and Posture</i> , 2006, 24, 152-164.	0.6	370
2	The Effect of Cam FAI on Hip and Pelvic Motion during Maximum Squat. <i>Clinical Orthopaedics and Related Research</i> , 2009, 467, 645-650.	0.7	195
3	Femoroacetabular impingement alters hip and pelvic biomechanics during gait. <i>Gait and Posture</i> , 2009, 30, 41-44.	0.6	186
4	Lower limb biomechanics during gait do not return to normal following total hip arthroplasty. <i>Gait and Posture</i> , 2010, 32, 269-273.	0.6	174
5	Biomechanical analysis of wheelchair propulsion for various seating positions. <i>Journal of Rehabilitation Research and Development</i> , 1992, 29, 12.	1.6	112
6	The effects of cam femoroacetabular impingement corrective surgery on lower-extremity gait biomechanics. <i>Gait and Posture</i> , 2013, 37, 258-263.	0.6	85
7	Reliability of EMG spectral parameters in repeated measurements of back muscle fatigue. <i>Journal of Electromyography and Kinesiology</i> , 1999, 9, 235-243.	0.7	72
8	Patient-Specific Anatomical and Functional Parameters Provide New Insights into the Pathomechanism of Cam FAI. <i>Clinical Orthopaedics and Related Research</i> , 2015, 473, 1289-1296.	0.7	70
9	A musculoskeletal model customized for squatting task. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2019, 22, 21-24.	0.9	68
10	In Vivo Knee Kinematics during Gait Reveals New Rotation Profiles and Smaller Translations. <i>Clinical Orthopaedics and Related Research</i> , 2007, 454, 81-88.	0.7	64
11	Preoperative and Postoperative Lower-Extremity Joint and Pelvic Kinematics During Maximal Squatting of Patients with Cam Femoro-Acetabular Impingement. <i>Journal of Bone and Joint Surgery - Series A</i> , 2011, 93, 40-45.	1.4	63
12	Assessment of functional knee bracing: an in vivo three-dimensional kinematic analysis of the anterior cruciate deficient knee. <i>Clinical Biomechanics</i> , 2001, 16, 61-70.	0.5	60
13	Lower limb muscle activity and kinematics of an unanticipated cutting manoeuvre: a gender comparison. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2009, 17, 968-976.	2.3	60
14	Surgical Correction of Cam Deformity in Association with Femoroacetabular Impingement and Its Impact on the Degenerative Process within the Hip Joint. <i>Journal of Bone and Joint Surgery - Series A</i> , 2017, 99, 1373-1381.	1.4	49
15	Electromyographic and biomechanic analysis of anterior cruciate ligament deficiency and functional knee bracing. <i>Clinical Biomechanics</i> , 2003, 18, 28-34.	0.5	48
16	Finite Element Analysis Examining the Effects of Cam FAI on Hip Joint Mechanical Loading Using Subject-Specific Geometries During Standing and Maximum Squat. <i>HSS Journal</i> , 2012, 8, 206-212.	0.7	48
17	How Different Marker Sets Affect Joint Angles in Inverse Kinematics Framework. <i>Journal of Biomechanical Engineering</i> , 2017, 139, .	0.6	46
18	Altered Walking and Muscle Patterns Reduce Hip Contact Forces in Individuals With Symptomatic Cam Femoroacetabular Impingement. <i>American Journal of Sports Medicine</i> , 2018, 46, 2615-2623.	1.9	45

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19	Does the Anterior Approach for THA Provide Closer-To-Normal Lower-Limb Motion?. <i>Journal of Arthroplasty</i> , 2013, 28, 1401-1407.	1.5	44
20	Study on three-dimensional kinematics and electromyography of ACL deficient knee participants wearing a functional knee brace during running. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2006, 14, 555-563.	2.3	43
21	Comparison of joint mechanics of both lower limbs of the patients with healthy participants during stair ascent and descent. <i>Journal of Orthopaedic Research</i> , 2011, 29, 305-311.	1.2	41
22	Anatomic Predictors of Sagittal Hip and Pelvic Motions in Patients With a Cam Deformity. <i>American Journal of Sports Medicine</i> , 2018, 46, 1331-1342.	1.9	41
23	Acetabular and spino-pelvic morphologies are different in subjects with symptomatic cam femoro-acetabular impingement. <i>Journal of Orthopaedic Research</i> , 2018, 36, 1840-1848.	1.2	41
24	Hip Joint Stresses Due to Cam-Type Femoroacetabular Impingement: A Systematic Review of Finite Element Simulations. <i>PLoS ONE</i> , 2016, 11, e0147813.	1.1	40
25	Gender Differences in Time-Frequency EMG Analysis of Unanticipated Cutting Maneuvers. <i>Medicine and Science in Sports and Exercise</i> , 2008, 40, 1795-1804.	0.2	39
26	Increased Hip Stresses Resulting From a Cam Deformity and Decreased Femoral Neck-Shaft Angle During Level Walking. <i>Clinical Orthopaedics and Related Research</i> , 2017, 475, 998-1008.	0.7	39
27	Electromyographic Activity in Expert Downhill Skiers Using Functional Knee Braces After Anterior Cruciate Ligament Injuries. <i>American Journal of Sports Medicine</i> , 1997, 25, 635-641.	1.9	36
28	Does the anterior approach for total hip arthroplasty better restore stair climbing gait mechanics?. <i>Journal of Orthopaedic Research</i> , 2011, 29, 1412-1417.	1.2	32
29	Modified gait patterns due to cam FAI syndrome remain unchanged after surgery. <i>Gait and Posture</i> , 2019, 72, 135-141.	0.6	28
30	Lower-limb joint mechanics after total hip arthroplasty during sitting and standing tasks. <i>Journal of Orthopaedic Research</i> , 2012, 30, 1611-1617.	1.2	26
31	Differences in anatomical parameters between the affected and unaffected hip in patients with bilateral cam-type deformities. <i>Clinical Biomechanics</i> , 2016, 33, 13-19.	0.5	26
32	The effect of functional knee brace design and hinge misalignment on lower limb joint mechanics. <i>Clinical Biomechanics</i> , 2008, 23, 52-59.	0.5	25
33	Asymptomatic Participants With a Femoroacetabular Deformity Demonstrate Stronger Hip Extensors and Greater Pelvis Mobility During the Deep Squat Task. <i>Orthopaedic Journal of Sports Medicine</i> , 2018, 6, 232596711878248.	0.8	25
34	Side does not matter in healthy young and older individuals – Examining the importance of how we match limbs during gait studies. <i>Gait and Posture</i> , 2019, 67, 133-136.	0.6	24
35	Gait and Motion Analysis of the Lower Extremity After Total Hip Arthroplasty: What the Orthopedic Surgeon Should Know. <i>Orthopedic Clinics of North America</i> , 2009, 40, 397-405.	0.5	22
36	The Biomechanics of Vertical Hopping: A Review. <i>Research in Sports Medicine</i> , 2013, 21, 380-394.	0.7	21

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37	Comparison of total hip arthroplasty surgical approaches by Principal Component Analysis. Journal of Biomechanics, 2012, 45, 2109-2115.	0.9	18
38	Cam FAI and Smaller Neck Angles Increase Subchondral Bone Stresses During Squatting: A Finite Element Analysis. Clinical Orthopaedics and Related Research, 2019, 477, 1053-1063.	0.7	16
39	Increased pelvic mobility and altered hip muscles contraction patterns: two-year follow-up cam-FAIS corrective surgery. Journal of Hip Preservation Surgery, 2019, 6, 140-148.	0.6	13
40	A custom musculoskeletal model for estimation of medial and lateral tibiofemoral contact forces during tasks with high knee and hip flexions. Computer Methods in Biomechanics and Biomedical Engineering, 2020, 23, 658-663.	0.9	12
41	Regression models to predict hip joint centers in pathological hip population. Gait and Posture, 2016, 44, 48-54.	0.6	10
42	Hip Muscle Forces and Contact Loading During Squatting After Cam-Type FAI Surgery. Journal of Bone and Joint Surgery - Series A, 2020, 102, 34-42.	1.4	10
43	BOPS: a Matlab toolbox to batch musculoskeletal data processing for OpenSim. Computer Methods in Biomechanics and Biomedical Engineering, 2021, 24, 1104-1114.	0.9	10
44	Muscle and Hip Contact Forces in Asymptomatic Men With Cam Morphology During Deep Squat. Frontiers in Sports and Active Living, 2021, 3, 716626.	0.9	10
45	Patient-Specific Functional Analysis: The Key to the Next Revolution Towards the Treatment of Hip and Knee Osteoarthritis. Journal of Orthopaedic Research, 2019, 37, 1754-1759.	1.2	7
46	Pre- and postoperative in silico biomechanics in individuals with cam morphology during stair tasks. Clinical Biomechanics, 2021, 86, 105387.	0.5	7
47	A waveform test for variance inequality, with a comparison of ground reaction force during walking in younger vs. older adults. Journal of Biomechanics, 2021, 127, 110657.	0.9	7
48	Does the Dual-Mobility Hip Prosthesis Produce Better Joint Kinematics During Extreme Hip Flexion Task?. Journal of Arthroplasty, 2017, 32, 3206-3212.	1.5	6
49	Application of Electromyography in Sport Medicine. , 2001, , 31-42.		6
50	Motion Analysis, Cartilage Mechanics, and Biology in Femoroacetabular Impingement: Current Understanding and Areas of Future Research. Journal of the American Academy of Orthopaedic Surgeons, The, 2013, 21, S27-S32.	1.1	5
51	Comparing the Accuracy of Visual and Computerized Onset Detection Methods on Simulated Electromyography Signals with Varying Signal-to-Noise Ratios. Journal of Functional Morphology and Kinesiology, 2021, 6, 70.	1.1	5
52	The Accuracy of the Use of Functional Hip Motions on Localization of the Center of the Hip. HSS Journal, 2012, 8, 192-197.	0.7	4
53	Comparison of anatomical parameters of cam femoroacetabular impingement to evaluate hip joint models segmented from CT data. Computer Methods in Biomechanics and Biomedical Engineering: Imaging and Visualization, 2018, 6, 293-302.	1.3	4
54	Biomechanics of Femoroacetabular Impingement. , 2015, , 783-795.		3

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55	Motion Analysis, Cartilage Mechanics, and Biology in Femoroacetabular Impingement: Current Understanding and Areas of Future Research. Journal of the American Academy of Orthopaedic Surgeons, The, 2013, 21, S27-S32.	1.1	3
56	Neuromuscular Strategies in ACL Injury Prevention. , 2012, , 43-51.		1
57	Spine, Pelvis and Hip Kinematicsâ€™ Characterizing the Axial Plane in Healthy and Osteoarthritic Hips. Applied Sciences (Switzerland), 2021, 11, 9921.	1.3	1
58	Gait variability between younger and older adults: An equality of variance analysis. Gait and Posture, 2022, 95, 176-182.	0.6	1
59	Variability of lower limbs kinematics influenced by marker set. Gait and Posture, 2011, 33, S31-S32.	0.6	0
60	Biomechanics of Femoroacetabular Impingement. , 2014, , 1-14.		0