

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 | Gait variability between younger and older adults: An equality of variance analysis. <i>Gait and Posture</i> , 2022, 95, 176-182. | 0.6 | 1 |
| 2 | BOPS: a Matlab toolbox to batch musculoskeletal data processing for OpenSim. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2021, 24, 1104-1114. | 0.9 | 10 |
| 3 | Pre- and postoperative in silico biomechanics in individuals with cam morphology during stair tasks. <i>Clinical Biomechanics</i> , 2021, 86, 105387. | 0.5 | 7 |
| 4 | Comparing the Accuracy of Visual and Computerized Onset Detection Methods on Simulated Electromyography Signals with Varying Signal-to-Noise Ratios. <i>Journal of Functional Morphology and Kinesiology</i> , 2021, 6, 70. | 1.1 | 5 |
| 5 | Muscle and Hip Contact Forces in Asymptomatic Men With Cam Morphology During Deep Squat. <i>Frontiers in Sports and Active Living</i> , 2021, 3, 716626. | 0.9 | 10 |
| 6 | A waveform test for variance inequality, with a comparison of ground reaction force during walking in younger vs. older adults. <i>Journal of Biomechanics</i> , 2021, 127, 110657. | 0.9 | 7 |
| 7 | Spine, Pelvis and Hip Kinematics Characterizing the Axial Plane in Healthy and Osteoarthritic Hips. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 9921. | 1.3 | 1 |
| 8 | Hip Muscle Forces and Contact Loading During Squatting After Cam-Type FAI Surgery. <i>Journal of Bone and Joint Surgery - Series A</i> , 2020, 102, 34-42. | 1.4 | 10 |
| 9 | A custom musculoskeletal model for estimation of medial and lateral tibiofemoral contact forces during tasks with high knee and hip flexions. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2020, 23, 658-663. | 0.9 | 12 |
| 10 | Increased pelvic mobility and altered hip muscles contraction patterns: two-year follow-up cam-FAIS corrective surgery. <i>Journal of Hip Preservation Surgery</i> , 2019, 6, 140-148. | 0.6 | 13 |
| 11 | Modified gait patterns due to cam FAI syndrome remain unchanged after surgery. <i>Gait and Posture</i> , 2019, 72, 135-141. | 0.6 | 28 |
| 12 | Patient-Specific Functional Analysis: The Key to the Next Revolution Towards the Treatment of Hip and Knee Osteoarthritis. <i>Journal of Orthopaedic Research</i> , 2019, 37, 1754-1759. | 1.2 | 7 |
| 13 | Cam FAI and Smaller Neck Angles Increase Subchondral Bone Stresses During Squatting: A Finite Element Analysis. <i>Clinical Orthopaedics and Related Research</i> , 2019, 477, 1053-1063. | 0.7 | 16 |
| 14 | A musculoskeletal model customized for squatting task. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2019, 22, 21-24. | 0.9 | 68 |
| 15 | 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 |
| 16 | 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 |
| 17 | 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 |
| 18 | Comparison of anatomical parameters of cam femoroacetabular impingement to evaluate hip joint models segmented from CT data. <i>Computer Methods in Biomechanics and Biomedical Engineering: Imaging and Visualization</i> , 2018, 6, 293-302. | 1.3 | 4 |

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|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 19 | 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 |
| 20 | 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 |
| 21 | How Different Marker Sets Affect Joint Angles in Inverse Kinematics Framework. <i>Journal of Biomechanical Engineering</i> , 2017, 139, . | 0.6 | 46 |
| 22 | Does the Dual-Mobility Hip Prosthesis Produce Better Joint Kinematics During Extreme Hip Flexion Task?. <i>Journal of Arthroplasty</i> , 2017, 32, 3206-3212. | 1.5 | 6 |
| 23 | 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 |
| 24 | 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 |
| 25 | Regression models to predict hip joint centers in pathological hip population. <i>Gait and Posture</i> , 2016, 44, 48-54. | 0.6 | 10 |
| 26 | 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 |
| 27 | 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 |
| 28 | 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 |
| 29 | Biomechanics of Femoroacetabular Impingement. , 2015, , 783-795. | | 3 |
| 30 | Biomechanics of Femoroacetabular Impingement. , 2014, , 1-14. | | 0 |
| 31 | 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 |
| 32 | 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 |
| 33 | Motion Analysis, Cartilage Mechanics, and Biology in Femoroacetabular Impingement: Current Understanding and Areas of Future Research. <i>Journal of the American Academy of Orthopaedic Surgeons</i> , The, 2013, 21, S27-S32. | 1.1 | 5 |
| 34 | The Biomechanics of Vertical Hopping: A Review. <i>Research in Sports Medicine</i> , 2013, 21, 380-394. | 0.7 | 21 |
| 35 | Motion Analysis, Cartilage Mechanics, and Biology in Femoroacetabular Impingement: Current Understanding and Areas of Future Research. <i>Journal of the American Academy of Orthopaedic Surgeons</i> , The, 2013, 21, S27-S32. | 1.1 | 3 |
| 36 | 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 |

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|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 37 | 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 |
| 38 | Comparison of total hip arthroplasty surgical approaches by Principal Component Analysis. Journal of Biomechanics, 2012, 45, 2109-2115. | 0.9 | 18 |
| 39 | Neuromuscular Strategies in ACL Injury Prevention. , 2012, , 43-51. | | 1 |
| 40 | Lower limb joint mechanics after total hip arthroplasty during sitting and standing tasks. Journal of Orthopaedic Research, 2012, 30, 1611-1617. | 1.2 | 26 |
| 41 | Variability of lower limbs kinematics influenced by marker set. Gait and Posture, 2011, 33, S31-S32. | 0.6 | 0 |
| 42 | Comparison of joint mechanics of both lower limbs of the patients with healthy participants during stair ascent and descent. Journal of Orthopaedic Research, 2011, 29, 305-311. | 1.2 | 41 |
| 43 | Does the anterior approach for total hip arthroplasty better restore stair climbing gait mechanics?. Journal of Orthopaedic Research, 2011, 29, 1412-1417. | 1.2 | 32 |
| 44 | Preoperative and Postoperative Lower-Extremity Joint and Pelvic Kinematics During Maximal Squatting of Patients with Cam Femoro-Acetabular Impingement. Journal of Bone and Joint Surgery - Series A, 2011, 93, 40-45. | 1.4 | 63 |
| 45 | Lower limb biomechanics during gait do not return to normal following total hip arthroplasty. Gait and Posture, 2010, 32, 269-273. | 0.6 | 174 |
| 46 | The Effect of Cam FAI on Hip and Pelvic Motion during Maximum Squat. Clinical Orthopaedics and Related Research, 2009, 467, 645-650. | 0.7 | 195 |
| 47 | Lower limb muscle activity and kinematics of an unanticipated cutting manoeuvre: a gender comparison. Knee Surgery, Sports Traumatology, Arthroscopy, 2009, 17, 968-976. | 2.3 | 60 |
| 48 | Femoroacetabular impingement alters hip and pelvic biomechanics during gait. Gait and Posture, 2009, 30, 41-44. | 0.6 | 186 |
| 49 | Gait and Motion Analysis of the Lower Extremity After Total Hip Arthroplasty: What the Orthopedic Surgeon Should Know. Orthopedic Clinics of North America, 2009, 40, 397-405. | 0.5 | 22 |
| 50 | The effect of functional knee brace design and hinge misalignment on lower limb joint mechanics. Clinical Biomechanics, 2008, 23, 52-59. | 0.5 | 25 |
| 51 | Gender Differences in Time-Frequency EMG Analysis of Unanticipated Cutting Maneuvers. Medicine and Science in Sports and Exercise, 2008, 40, 1795-1804. | 0.2 | 39 |
| 52 | In Vivo Knee Kinematics during Gait Reveals New Rotation Profiles and Smaller Translations. Clinical Orthopaedics and Related Research, 2007, 454, 81-88. | 0.7 | 64 |
| 53 | Effect of skin movement artifact on knee kinematics during gait and cutting motions measured in vivo. Gait and Posture, 2006, 24, 152-164. | 0.6 | 370 |
| 54 | Study on three-dimensional kinematics and electromyography of ACL deficient knee participants wearing a functional knee brace during running. Knee Surgery, Sports Traumatology, Arthroscopy, 2006, 14, 555-563. | 2.3 | 43 |

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|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 55 | Electromyographic and biomechanic analysis of anterior cruciate ligament deficiency and functional knee bracing. <i>Clinical Biomechanics</i> , 2003, 18, 28-34. | 0.5 | 48 |
| 56 | 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 |
| 57 | Application of Electromyography in Sport Medicine. , 2001, , 31-42. | | 6 |
| 58 | 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 |
| 59 | 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 |
| 60 | Biomechanical analysis of wheelchair propulsion for various seating positions. <i>Journal of Rehabilitation Research and Development</i> , 1992, 29, 12. | 1.6 | 112 |