Monica R Maly

List of Publications by Year
in descending order

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74 papers	1,762 citations	346980 22 h-index	340414 39 g-index
75 all docs	75 docs citations	75 times ranked	2386 citing authors

#	Article	IF	Citations
1	Equations to Prescribe Bicycle Saddle Height based on Desired Joint Kinematics and Bicycle Geometry. European Journal of Sport Science, 2022, 22, 344-353.	1.4	5
2	Investigating acute changes in osteoarthritic cartilage by integrating biomechanics and statistical shape models of bone: data from the osteoarthritis initiative. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2022, 35, 861-873.	1.1	6
3	The relationship between muscle capacity utilization during gait and pain in people with symptomatic knee osteoarthritis. Gait and Posture, 2022, 94, 58-66.	0.6	1
4	Point of care ultrasonography in patients with haemophilia and acute haemarthrosis: a physiotherapist and sonographer inter-professional agreement pilot study. The Journal of Haemophilia Practice, 2022, 9, 64-75.	0.2	0
5	Hip and ankle kinematics are the most important predictors of knee joint loading during bicycling. Journal of Science and Medicine in Sport, 2021, 24, 98-104.	0.6	6
6	A new technique to evaluate the impact of running on knee cartilage deformation by region. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2021, 34, 593-603.	1.1	3
7	Automatic knee cartilage and bone segmentation using multi-stage convolutional neural networks: data from the osteoarthritis initiative. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2021, 34, 859-875.	1.1	15
8	Muscle strength gains after strengthening exercise explained by reductions in serum inflammation in women with knee osteoarthritis. Clinical Biomechanics, 2021, 86, 105381.	0.5	4
9	Daily cumulative load and body mass index alter knee cartilage response to running in women. Gait and Posture, 2021, 88, 192-197.	0.6	4
10	Association of Machine Learningâ€“Based Predictions of Medial Knee Contact Force With Cartilage Loss Over 2.5 Years in Knee Osteoarthritis. Arthritis and Rheumatology, 2021, 73, 1638-1645.	2.9	17
11	Association of Pain and Steps Per Day in Persons With Mildâ€toâ€Moderate, Symptomatic Knee Osteoarthritis: A Mixedâ€Effects Models Analysis of Multiple Measurements Over ThreeÂYears. Arthritis Care and Research, 2020, 72, 114-121.	1.5	9
12	Pathways of Participation by Older Adults Living in Continuing Care Homes: A Constructivist Grounded Theory Study. Activities, Adaptation and Aging, 2020, 44, 1-23.	1.7	1
13	Glenohumeral stabilizing roles of the scapulohumeral muscles: Implications of muscle geometry. Journal of Biomechanics, 2020, 100, 109589.	0.9	10
14	Osteoarthritis year in review 2019: rehabilitation and outcomes. Osteoarthritis and Cartilage, 2020, 28, 249-266.	0.6	31
15	Diet and Nutrition Risk Affect Mobility and General Health in Osteoarthritis: Data from the Canadian Longitudinal Study on Aging. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2020, 75, 2147-2155.	1.7	6
16	How to Optimize Measurement Protocols: An Example of Assessing Measurement Reliability Using Generalizability Theory. Physiotherapy Canada Physiotherapie Canada, 2020, 72, 112-121.	0.3	1
17	Evaluating the relationship between quadriceps muscle quality captured using ultrasound with clinical severity in women with knee osteoarthritis. Clinical Biomechanics, 2020, 80, 105165.	0.5	9
18	Predictors of treatment adherence in patients with chronic disease using the Multidimensional Adherence Model: unique considerations for patients with haemophilia. The Journal of Haemophilia Practice, 2020, 7, 92-101.	0.2	5

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19	Modeling the effects of musculoskeletal geometry on scapulohumeral muscle moment arms and lines of action. Computer Methods in Biomechanics and Biomedical Engineering, 2019, 22, 1311-1322.	0.9	6
20	Accuracy of estimates of cumulative load during a confined activity: bicycling. International Biomechanics, 2019, 6, 66-74.	0.9	3
21	Investigating the Testâ€“Retest Reliability and Validity of Hand-Held Dynamometry for Measuring Knee Strength in Older Women with Knee Osteoarthritis. Physiotherapy Canada Physiotherapie Canada, 2019, 71, 231-238.	0.3	13
22	Impact of Inter- and Intramuscular Fat on Muscle Architecture and Capacity. Critical Reviews in Biomedical Engineering, 2019, 47, 515-533.	0.5	8
23	Scapular Muscle Activity During Static Yoga Postures. Journal of Orthopaedic and Sports Physical Therapy, 2018, 48, 504-509.	1.7	12
24	Identifying changes in gait waveforms following a strengthening intervention for women with knee osteoarthritis using principal components analysis. Gait and Posture, 2018, 59, 286-291.	0.6	8
25	Relative and absolute testâ€“retest reliabilities of biomechanical risk factors for knee osteoarthritis progression: benchmarks for meaningful change. Osteoarthritis and Cartilage, 2018, 26, 220-226.	0.6	12
26	Self-efficacy, pain, and quadriceps capacity at baseline predict changes in mobility performance over 2Âyears in women with knee osteoarthritis. Clinical Rheumatology, 2018, 37, 495-504.	1.0	13
27	The Effects of Lower Extremity Strengthening Delivered in the Workplace on Physical Function and Work-Related Outcomes Among Desk-Based Workers. Journal of Occupational and Environmental Medicine, 2018, 60, 1005-1014.	0.9	7
28	Efficacy of a biomechanically-based yoga exercise program in knee osteoarthritis: A randomized controlled trial. PLoS ONE, 2018, 13, e0195653.	1.1	36
29	Relationships between fatty infiltration in the thigh and calf in women with knee osteoarthritis. Aging Clinical and Experimental Research, 2017, 29, 291-299.	1.4	21
30	Acute changes in knee cartilage transverse relaxation time after running and bicycling. Journal of Biomechanics, 2017, 53, 171-177.	0.9	25
31	Randomized Controlled Trial Investigating the Role of Exercise in the Workplace to Improve Work Ability, Performance, and Patient-Reported Symptoms Among Older Workers With Osteoarthritis. Journal of Occupational and Environmental Medicine, 2017, 59, 550-556.	0.9	23
32	Baseline knee adduction moment interacts with body mass index to predict loss of medial tibial cartilage volume over 2.5 years in knee Osteoarthritis. Journal of Orthopaedic Research, 2017, 35, 2476-2483.	1.2	37
33	Lean muscle volume of the thigh has a stronger relationship with muscle power than muscle strength in women with knee osteoarthritis. Clinical Biomechanics, 2017, 41, 92-97.	0.5	18
34	A systematic review to evaluate exercise for anterior cruciate ligament injuries: does this approach reduce the incidence of knee osteoarthritis?. Open Access Rheumatology: Research and Reviews, 2016, 8, 1.	0.8	7
35	Does pain relate with activation of quadriceps and hamstrings muscles during strengthening exercise in people with knee osteoarthritis?. SpringerPlus, 2016, 5, 463.	1.2	6
36	Quantifying fat and lean muscle in the lower legs of women with knee osteoarthritis using two different MRI systems. Rheumatology International, 2016, 36, 855-862.	1.5	8

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37	Effect of obesity on knee joint biomechanics during gait in young adults. Cogent Medicine, 2016, 3, 1173778.	0.7	13
38	Intermittent and constant pain and physical function or performance in men and women with knee osteoarthritis: data from the osteoarthritis initiative. Clinical Rheumatology, 2016, 35, 371-379.	1.0	26
39	The reliability of a segmentation methodology for assessing intramuscular adipose tissue and other soft-tissue compartments of lower leg MRI images. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2016, 29, 237-244.	1.1	13
40	GT3X+ accelerometer placement affects the reliability of step-counts measured during running and pedal-revolution counts measured during bicycling. Journal of Sports Sciences, 2016, 34, 1168-1175.	1.0	18
41	Do Knee Moments Normalized to Measures of Knee Cartilage Area Better Classify the Severity of Knee Osteoarthritis?. Journal of Applied Biomechanics, 2015, 31, 415-422.	0.3	1
42	Validation of the Questionnaire to Identify Knee Symptoms (QuIKS) using Rasch analysis. Health and Quality of Life Outcomes, 2015, 13, 157.	1.0	6
43	Muscle activation and knee biomechanics during squatting and lunging after lower extremity fatigue in healthy young women. Journal of Electromyography and Kinesiology, 2015, 25, 40-46.	0.7	18
44	Knee Extensor Power Relates to Mobility Performance in People With Knee Osteoarthritis: Cross-Sectional Analysis. Physical Therapy, 2015, 95, 989-995.	1.1	33
45	Identifying yoga-based knee strengthening exercises using the knee adduction moment. Clinical Biomechanics, 2015, 30, 820-826.	0.5	16
46	Knee adduction moment relates to medial femoral and tibial cartilage morphology in clinical knee osteoarthritis. Journal of Biomechanics, 2015, 48, 3495-3501.	0.9	34
47	A Yoga Strengthening Program Designed to Minimize the Knee Adduction Moment for Women with Knee Osteoarthritis: A Proof-Of-Principle Cohort Study. PLoS ONE, 2015, 10, e0136854.	1.1	21
48	Knee Power Is an Important Parameter in Understanding Medial Knee Joint Load in Knee Osteoarthritis. Arthritis Care and Research, 2014, 66, 687-694.	1.5	15
49	Analysis of muscle activation patterns during transitions into and out of high knee flexion postures. Journal of Electromyography and Kinesiology, 2014, 24, 711-717.	0.7	10
50	Questionnaire to Identify Knee Symptoms: Development of a Tool to Identify Early Experiences Consistent With Knee Osteoarthritis. Physical Therapy, 2014, 94, 111-120.	1.1	5
51	Effect of Submaximal Repetitive Exercise on Knee Coactivation in Young and Middle-Aged Women. Journal of Applied Biomechanics, 2014, 30, 269-275.	0.3	1
52	Unilateral ankle immobilization alters the kinematics and kinetics of lifting. Work, 2014, 47, 221-234.	0.6	19
53	Biomechanical changes at the knee after lower limb fatigue in healthy young women. Clinical Biomechanics, 2013, 28, 441-447.	0.5	36
54	Relationship of intermuscular fat volume in the thigh with knee extensor strength and physical performance in women at risk of or with knee osteoarthritis. Arthritis Care and Research, 2013, 65, 44-52.	1.5	68

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55	Cumulative knee adductor load distinguishes between healthy and osteoarthritic kneesâ€“A proof of principle study. Gait and Posture, 2013, 37, 397-401.	0.6	48
56	Activity-Modifying Behaviour Mediates the Relationship between Pain Severity and Activity Limitations among Adults with Emergent Knee Pain. Physiotherapy Canada Physiotherapie Canada, 2013, 65, 12-19.	0.3	4
57	Quantity and Quality of Physical Activity Are Influenced by Outdoor Temperature in People with Knee Osteoarthritis. Physiotherapy Canada Physiotherapie Canada, 2013, 65, 248-254.	0.3	13
58	Association of pain with frequency and magnitude of knee loading in knee osteoarthritis. Arthritis Care and Research, 2011, 63, 991-997.	1.5	43
59	Comparative diagnostic accuracy of knee adduction moments in knee osteoarthritis: A case for not normalizing to body size. Journal of Biomechanics, 2011, 44, 968-971.	0.9	19
60	â€˜Getting back to real livingâ€™: a qualitative study of the process of community reintegration after stroke. Clinical Rehabilitation, 2010, 24, 1045-1056.	1.0	123
61	Quantifying Self-Report Measures' Overestimation of Mobility Scores Postarthroplasty. Physical Therapy, 2010, 90, 1288-1296.	1.1	67
62	Patients with osteoarthritic knees have shorter orientation and tangent indicatrices during gait. Clinical Biomechanics, 2010, 25, 237-241.	0.5	4
63	Linking Biomechanics to Mobility and Disability in People With Knee Osteoarthritis. Exercise and Sport Sciences Reviews, 2009, 37, 36-42.	1.6	17
64	Developing an estimate of daily cumulative loading for the knee: Examining testâ€“retest reliability. Gait and Posture, 2009, 30, 497-501.	0.6	27
65	The effect of gait speed on the knee adduction moment depends on waveform summary measures. Gait and Posture, 2009, 30, 543-546.	0.6	84
66	â€œHolding Me Backâ€• Living With Arthritis While Recovering From Stroke. Archives of Physical Medicine and Rehabilitation, 2009, 90, 494-500.	0.5	10
67	Mechanical factors relate to pain in knee osteoarthritis. Clinical Biomechanics, 2008, 23, 796-805.	0.5	63
68	Abnormal and cumulative loading in knee osteoarthritis. Current Opinion in Rheumatology, 2008, 20, 547-552.	2.0	67
69	Personal experience of living with knee osteoarthritis among older adults. Disability and Rehabilitation, 2007, 29, 1423-1433.	0.9	57
70	Determinants of Self-Report Outcome Measures in People With Knee Osteoarthritis. Archives of Physical Medicine and Rehabilitation, 2006, 87, 96-104.	0.5	198
71	Role of knee kinematics and kinetics on performance and disability in people with medial compartment knee osteoarthritis. Clinical Biomechanics, 2006, 21, 1051-1059.	0.5	40
72	Contribution of psychosocial and mechanical variables to physical performance measures in knee osteoarthritis. Physical Therapy, 2005, 85, 1318-28.	1.1	30

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73	Static and dynamic biomechanics of foot orthoses in people with medial compartment knee osteoarthritis. Clinical Biomechanics, 2002, 17, 603-610.	0.5	97
74	Scoping Review of Curricula and Pedagogical Approaches for Physiotherapist Performed Point of Care Ultrasonography. Physiotherapy Canada Physiotherapie Canada, 0, , .	0.3	1