Hiroshige Tateuchi

List of Publications by Year
in descending order

74	1,194	394421 19	454955 30
papers	citations	h-index	g-index

78	78	78	1331
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Association of low back pain with muscle stiffness and muscle mass of the lumbar back muscles, and sagittal spinal alignment in young and middle-aged medical workers. Clinical Biomechanics, 2017, 49, 128-133.	1.2	72
2	Daily cumulative hip moment is associated with radiographic progression of secondary hip osteoarthritis. Osteoarthritis and Cartilage, 2017, 25, 1291-1298.	1.3	63
3	Verification of reliability and validity of motion analysis systems during bilateral squat using human pose tracking algorithm. Gait and Posture, 2020, 80, 62-67.	1.4	60
4	Effects of calcaneal eversion on three-dimensional kinematics of the hip, pelvis and thorax in unilateral weight bearing. Human Movement Science, 2011, 30, 566-573.	1.4	54
5	Verification of validity of gait analysis systems during treadmill walking and running using human pose tracking algorithm. Gait and Posture, 2021, 85, 290-297.	1.4	52
6	Effects of high-velocity resistance training on muscle function, muscle properties, and physical performance in individuals with hip osteoarthritis: a randomized controlled trial. Clinical Rehabilitation, 2014, 28, 48-58.	2.2	51
7	Muscle Mass and Composition of the Hip, Thigh and Abdominal Muscles in Women With and Without Hip Osteoarthritis. Ultrasound in Medicine and Biology, 2012, 38, 1540-1545.	1.5	48
8	Balance of hip and trunk muscle activity is associated with increased anterior pelvic tilt during prone hip extension. Journal of Electromyography and Kinesiology, 2012, 22, 391-397.	1.7	45
9	Kinematic and kinetic characteristics of Masai Barefoot Technology footwear. Gait and Posture, 2012, 35, 567-572.	1.4	45
10	The effect of angle and moment of the hip and knee joint on iliotibial band hardness. Gait and Posture, 2015, 41, 522-528.	1.4	39
11	Effects of dual-task switch exercise on gait and gait initiation performance in older adults: Preliminary results of a randomized controlled trial. Archives of Gerontology and Geriatrics, 2012, 54, e167-e171.	3.0	34
12	The effect of sex and fatigue on lower limb kinematics, kinetics, and muscle activity during unanticipated side-step cutting. Knee Surgery, Sports Traumatology, Arthroscopy, 2014, 22, 41-48.	4.2	32
13	Anticipatory Postural Adjustments During Lateral Step Motion in Patients With Hip Osteoarthritis. Journal of Applied Biomechanics, 2011, 27, 32-39.	0.8	28
14	Sagittal alignment and mobility of the thoracolumbar spine are associated with radiographic progression of secondary hip osteoarthritis. Osteoarthritis and Cartilage, 2018, 26, 397-404.	1.3	27
15	Differences in muscle activation patterns during step recovery in elderly women with and without a history of falls. Aging Clinical and Experimental Research, 2014, 26, 213-220.	2.9	25
16	Effects of trunk rotation on scapular kinematics and muscle activity during humeral elevation. Journal of Electromyography and Kinesiology, 2013, 23, 679-687.	1.7	24
17	Dynamic hip joint stiffness in individuals with total hip arthroplasty: Relationships between hip impairments and dynamics of the other joints. Clinical Biomechanics, 2011, 26, 598-604.	1.2	23
18	Age-related changes in muscle thickness and echo intensity of trunk muscles in healthy women: comparison of 20â€“60s age groups. European Journal of Applied Physiology, 2020, 120, 1805-1814.	2.5	22

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19	Effects of toe and ankle training in older people: A crossâ€over study. Geriatrics and Gerontology International, 2011, 11, 246-255.	1.5	21
20	The effect of three-dimensional postural change on shear elastic modulus of the iliotibial band. Journal of Electromyography and Kinesiology, 2016, 28, 137-142.	1.7	20
21	Gait- and postural-alignment-related prognostic factors for hip and knee osteoarthritis: Toward the prevention of osteoarthritis progression. Physical Therapy Research, 2019, 22, 31-37.	0.9	19
22	Relationships between performance and kinematic/kinetic variables of stair descent in patients with medial knee osteoarthritis: An evaluation of dynamic stability using an extrapolated center of mass. Clinical Biomechanics, 2015, 30, 1066-1070.	1.2	18
23	The effects of fall history on kinematic synergy during walking. Journal of Biomechanics, 2019, 82, 204-210.	2.1	18
24	Immediate effects of different ankle pushoff instructions during walking exercise on hip kinematics and kinetics in individuals with total hip arthroplasty. Gait and Posture, 2011, 33, 609-614.	1.4	17
25	The correlation between movement of the center of mass and the kinematics of the spine, pelvis, and hip joints during body rotation. Gait and Posture, 2014, 39, 60-64.	1.4	16
26	Factors Associated with Restricted Hip Extension during Gait in Women after Total Hip Arthroplasty. HIP International, 2015, 25, 543-548.	1.7	16
27	Greater Lumbar Extension During Dolphin Kick and Psoas Major Tightness in Swimmers With Low Back Pain. Journal of Sport Rehabilitation, 2020, 29, 716-722.	1.0	16
28	Pelvic instability and trunk and hip muscle recruitment patterns in patients with total hip arthroplasty. Journal of Electromyography and Kinesiology, 2013, 23, 151-158.	1.7	15
29	The effects of knee pain on knee contact force and external knee adduction moment in patients with knee osteoarthritis. Journal of Biomechanics, 2021, 123, 110538.	2.1	15
30	Radiographic and clinical factors associated with one-leg standing and gait in patients with mild-to-moderate secondary hip osteoarthritis. Gait and Posture, 2016, 49, 207-212.	1.4	13
31	Effects of the trunk position on muscle stiffness that reflects elongation of the lumbar erector spinae and multifidus muscles: an ultrasonic shear wave elastography study. European Journal of Applied Physiology, 2019, 119, 1085-1091.	2.5	13
32	Relation between frontal plane center of mass position stability and foot elevation during obstacle crossing. Journal of Biomechanics, 2021, 116, 110219.	2.1	13
33	Stepping Exercises Improve Muscle Strength in the Early Postoperative Phase After Total Hip Arthroplasty. American Journal of Physical Medicine and Rehabilitation, 2012, 91, 43-52.	1.4	12
34	Electromyographic Analysis of Training to Selectively Strengthen the Lumbar Multifidus Muscle: Effects of Different Lifting Directions and Weight Loading of the Extremities During Quadruped Upper and Lower Extremity Lifts. Journal of Manipulative and Physiological Therapeutics, 2015, 38, 138-144.	0.9	12
35	Effects of High- and Low-Velocity Resistance Training on Gait Kinematics and Kinetics in Individuals with Hip Osteoarthritis. American Journal of Physical Medicine and Rehabilitation, 2017, 96, 417-423.	1.4	12
36	Compensatory turning strategies while walking in patients with hip osteoarthritis. Gait and Posture, 2014, 39, 1133-1137.	1.4	11

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37	Immediate effect of Masai Barefoot Technology shoes on knee joint moments in women with knee osteoarthritis. Gait and Posture, 2014, 40, 204-208.	1.4	11
38	Relative mobility of the pelvis and spine during trunk axial rotation in chronic low back pain patients: A case-control study. PLoS ONE, 2017, 12, e0186369.	2.5	10
39	Gait kinematics of the hip, pelvis, and trunk associated with external hip adduction moment in patients with secondary hip osteoarthritis: toward determination of the key point in gait modification. BMC Musculoskeletal Disorders, 2020, 21, 8.	1.9	10
40	The relation between kinematic synergy to stabilize the center of mass during walking and future fall risks: a 1-year longitudinal study. BMC Geriatrics, 2021, 21, 240.	2.7	10
41	Effect of balance exercise in combination with whole-body vibration on muscle activity of the stepping limb during a forward fall in older women: A randomized controlled pilot study. Archives of Gerontology and Geriatrics, 2015, 60, 244-251.	3.0	9
42	Associations of radiographic degeneration and pain with daily cumulative hip loading in patients with secondary hip osteoarthritis. Journal of Orthopaedic Research, 2016, 34, 1977-1983.	2.3	9
43	Gait strategies to reduce the dynamic joint load in the lower limbs during a loading response in young healthy adults. Human Movement Science, 2018, 58, 260-267.	1.4	9
44	Gait- and Posture-Related Factors Associated With Changes in Hip Pain and Physical Function in Patients With Secondary Hip Osteoarthritis: A Prospective Cohort Study. Archives of Physical Medicine and Rehabilitation, 2019, 100, 2053-2062.	0.9	8
45	Effects of trunk lean and foot lift exercises in sitting position on abdominal muscle activity and the contribution rate of transversus abdominis. European Journal of Applied Physiology, 2021, 121, 173-181.	2.5	8
46	Postural Control for Initiation of Lateral Step and Step-up Motions in Young Adults. Journal of Physical Therapy Science, 2006, 18, 49-55.	0.6	7
47	The relation between limb segment coordination during walking and fall history in community-dwelling older adults. Journal of Biomechanics, 2019, 93, 94-100.	2.1	7
48	Abdominal girth as an index of muscle tension during abdominal hollowing: Selecting the optimal training intensity for the transversus abdominis muscle. Journal of Biomechanics, 2019, 89, 72-77.	2.1	7
49	Effect of different knee flexion angles with a constant hip and knee torque on the muscle forces and neuromuscular activities of hamstrings and gluteus maximus muscles. European Journal of Applied Physiology, 2019, 119, 399-407.	2.5	7
50	Back muscle activity and sagittal spinal alignment during quadruped upper and lower extremity lift in young men with low back pain history. Gait and Posture, 2018, 66, 221-227.	1.4	6
51	Gait kinematics and physical function that most affect intralimb coordination in patients with stroke. NeuroRehabilitation, 2019, 45, 493-499.	1.3	6
52	Age- and sex-related differences of muscle cross-sectional area in iliocapsularis: a cross-sectional study. BMC Geriatrics, 2022, 22, 435.	2.7	6
53	Strategies for increasing gait speed in patients with hip osteoarthritis: their clinical significance and effects on hip loading. Arthritis Research and Therapy, 2021, 23, 129.	3.5	5
54	Relationship between individual forces of each quadriceps head during low-load knee extension and cartilage thickness and knee pain in women with knee osteoarthritis. Clinical Biomechanics, 2022, 91, 105546.	1.2	5

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55	Mechanical energy efficiency for stepping up and down in persons with medial knee osteoarthritis. Gait and Posture, 2019, 69, 143-149.	1.4	3
56	Differences in shear elastic modulus of the latissimus dorsi muscle during stretching among varied trunk positions. Journal of Biomechanics, 2021, 118, 110324.	2.1	3
57	Estimating thigh skeletal muscle volume using multi-frequency segmental-bioelectrical impedance analysis. Journal of Physiological Anthropology, 2021, 40, 13.	2.6	3
58	Age-Related Changes of Postural Control in Initiation of Lateral Step Motions. Rigakuryoho Kagaku, 2006, 21, 267-273.	0.1	2
59	Immediate Effects of the Body Weight Supported Treadmill Training for the Patient with Orthopedics Diseases. Rigakuryoho Kagaku, 2008, 23, 753-757.	0.1	2
60	Regeneration of a Completely Transected Sciatic Nerve with Use of a Bioabsorbable Nerve Conduit Filled with Collagen with a 14-Year Follow-up. JBJS Case Connector, 2017, 7, e77-e77.	0.3	2
61	Relationship between vertical ground reaction force and muscle strength while climbing stairs after total hip arthroplasty. Clinical Biomechanics, 2020, 78, 105088.	1.2	2
62	Immediate effects of stance and swing phase training on gait in patients with stroke. International Journal of Rehabilitation Research, 2021, 44, 152-158.	1.3	2
63	The function of the popliteus muscle: An in vivo ultrasound shear wave elastography study. Human Movement Science, 2021, 76, 102751.	1.4	2
64	Influence of simulated hip muscle weakness on hip joint forces during deep squatting. Journal of Sports Sciences, 2021, 39, 2289-2297.	2.0	2
65	Influence of stance width and toe direction on medial knee contact force during bodyweight squats. Journal of Biomechanics, 2021, 129, 110824.	2.1	2
66	Properties of triceps surae and Achilles tendon in forefoot and non-forefoot strike runners. Journal of Sports Medicine and Physical Fitness, 2022, 62, .	0.7	2
67	Changes in kinematic synergy in older adults during walking: A two-year follow-up study. Gait and Posture, 2022, 96, 244-250.	1.4	2
68	Muscle size-scaled shear elastic modulus: A muscle force index independent of maximal voluntary contraction, assessed during elbow extension. Journal of Biomechanics, 2020, 112, 110049.	2.1	1
69	Verification of criterion-related validity of the evaluation method of postural stability using the frame subtraction method. Journal of Biomechanics, 2020, 109, 109958.	2.1	1
70	METHODOLOGICAL APPROACH TO EVALUATE THE EFFECTS OF MUSCLE REMOVAL ON ESTIMATED MUSCLE FORCES DURING WALKING IN PATIENTS AFTER RESECTION OF SOFT TISSUE SARCOMA IN THE THIGH. Journal of Mechanics in Medicine and Biology, 2020, 20, 1950077.	0.7	1
71	Clinical phenotypes based on clinical prognostic factors in patients with secondary hip osteoarthritis: preliminary findings from a prospective cohort study. Clinical Rheumatology, 2020, 39, 2207-2217.	2.2	1
72	Response to a letter to the editor from Dr. Timur Ekiz regarding our article â€œAge-related changes in muscle thickness and echo intensity of trunk muscles in healthy women: comparison of 20â€“60s age groupsâ€™â€™. European Journal of Applied Physiology, 2020, 120, 2561-2563.	2.5	0

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73	Investigation of joint angle specificity in low-load hip abductor isometric training: a randomized controlled trial. The Journal of Physical Fitness and Sports Medicine, 2019, 8, 107-111.	0.3	0
74	The effect of Liquid ice after high-intensity exercise on muscle function compared to Block ice. Journal of Exercise Science and Fitness, 2022, 20, 23-26.	2.2	0