

Jaap H Van Dien

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567
papers

18,845
citations

69
h-index

109
g-index

636
ext. papers

22,164
ext. citations

3
avg, IF

7.08
L-index

#	Paper	IF	Citations
567	Trunk muscle activation in low-back pain patients, an analysis of the literature. <i>Journal of Electromyography and Kinesiology</i> , 2003 , 13, 333-51	2.5	426
566	Sitting comfort and discomfort and the relationships with objective measures. <i>Ergonomics</i> , 2003 , 46, 985-97	2.9	376
565	Pregnancy-related pelvic girdle pain (PPP), I: Terminology, clinical presentation, and prevalence. <i>European Spine Journal</i> , 2004 , 13, 575-89	2.7	372
564	Mechanics and biology in intervertebral disc degeneration: a vicious circle. <i>Osteoarthritis and Cartilage</i> , 2015 , 23, 1057-70	6.2	353
563	Assessing the stability of human locomotion: a review of current measures. <i>Journal of the Royal Society Interface</i> , 2013 , 10, 20120999	4.1	338
562	Identification of elderly fallers by muscle strength measures. <i>European Journal of Applied Physiology</i> , 2008 , 102, 585-92	3.4	300
561	Trunk Muscle Recruitment Patterns in Patients With Low Back Pain Enhance the Stability of the Lumbar Spine. <i>Spine</i> , 2003 , 28, 834-841	3.3	241
560	Kinematic measures for assessing gait stability in elderly individuals: a systematic review. <i>Journal of the Royal Society Interface</i> , 2011 , 8, 1682-98	4.1	229
559	Methodological aspects of SEMG recordings for force estimation--a tutorial and review. <i>Journal of Electromyography and Kinesiology</i> , 2010 , 20, 375-87	2.5	223
558	Pathophysiology of upper extremity muscle disorders. <i>Journal of Electromyography and Kinesiology</i> , 2006 , 16, 1-16	2.5	221
557	Local dynamic stability and variability of gait are associated with fall history in elderly subjects. <i>Gait and Posture</i> , 2012 , 36, 527-31	2.6	195
556	Push-off reactions in recovery after tripping discriminate young subjects, older non-fallers and older fallers. <i>Gait and Posture</i> , 2005 , 21, 388-94	2.6	189
555	Is slow walking more stable?. <i>Journal of Biomechanics</i> , 2009 , 42, 1506-1512	2.9	179
554	Stoop or squat: a review of biomechanical studies on lifting technique. <i>Clinical Biomechanics</i> , 1999 , 14, 685-96	2.2	169
553	Statistical precision and sensitivity of measures of dynamic gait stability. <i>Journal of Neuroscience Methods</i> , 2009 , 178, 327-33	3	160
552	The effects of arm swing on human gait stability. <i>Journal of Experimental Biology</i> , 2010 , 213, 3945-52	3	152
551	Pelvis-thorax coordination in the transverse plane during walking in persons with nonspecific low back pain. <i>Spine</i> , 2002 , 27, E92-9	3.3	148

550	Comparison of a laboratory grade force platform with a Nintendo Wii Balance Board on measurement of postural control in single-leg stance balance tasks. <i>Journal of Biomechanics</i> , 2013 , 46, 1392-5	2.9	147
549	Effects of dynamic office chairs on trunk kinematics, trunk extensor EMG and spinal shrinkage. <i>Ergonomics</i> , 2001 , 44, 739-50	2.9	147
548	The effect of lifting during work on low back pain: a health impact assessment based on a meta-analysis. <i>Occupational and Environmental Medicine</i> , 2014 , 71, 871-7	2.1	146
547	Contribution of the support limb in control of angular momentum after tripping. <i>Journal of Biomechanics</i> , 2004 , 37, 1811-8	2.9	139
546	Thoracic kyphosis affects spinal loads and trunk muscle force. <i>Physical Therapy</i> , 2007 , 87, 595-607	3.3	138
545	Speeding up or slowing down?: Gait adaptations to preserve gait stability in response to balance perturbations. <i>Gait and Posture</i> , 2012 , 36, 260-4	2.6	137
544	Tripping without falling; lower limb strength, a limitation for balance recovery and a target for training in the elderly. <i>Journal of Electromyography and Kinesiology</i> , 2008 , 18, 188-96	2.5	137
543	Ambulatory fall-risk assessment: amount and quality of daily-life gait predict falls in older adults. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2015 , 70, 608-15	6.4	133
542	Coordination of leg swing, thorax rotations, and pelvis rotations during gait: the organisation of total body angular momentum. <i>Gait and Posture</i> , 2008 , 27, 455-62	2.6	132
541	How early reactions in the support limb contribute to balance recovery after tripping. <i>Journal of Biomechanics</i> , 2005 , 38, 627-34	2.9	132
540	Prediction of handgrip forces using surface EMG of forearm muscles. <i>Journal of Electromyography and Kinesiology</i> , 2005 , 15, 358-66	2.5	130
539	Steps to take to enhance gait stability: the effect of stride frequency, stride length, and walking speed on local dynamic stability and margins of stability. <i>PLoS ONE</i> , 2013 , 8, e82842	3.7	127
538	Control of human gait stability through foot placement. <i>Journal of the Royal Society Interface</i> , 2018 , 15,	4.1	126
537	Armed against falls: the contribution of arm movements to balance recovery after tripping. <i>Experimental Brain Research</i> , 2010 , 201, 689-99	2.3	111
536	Improving EMG-based muscle force estimation by using a high-density EMG grid and principal component analysis. <i>IEEE Transactions on Biomedical Engineering</i> , 2006 , 53, 712-9	5	111
535	Cumulative low back load at work as a risk factor of low back pain: a prospective cohort study. <i>Journal of Occupational Rehabilitation</i> , 2013 , 23, 11-8	3.6	104
534	Trunk muscle recruitment patterns in patients with low back pain enhance the stability of the lumbar spine. <i>Spine</i> , 2003 , 28, 834-41	3.3	101
533	Assessing gait stability: the influence of state space reconstruction on inter- and intra-day reliability of local dynamic stability during over-ground walking. <i>Journal of Biomechanics</i> , 2013 , 46, 137-41	2.9	100

532	Mechanical loading of the low back and shoulders during pushing and pulling activities. <i>Ergonomics</i> , 2004 , 47, 1-18	2.9	99
531	Control of support limb muscles in recovery after tripping in young and older subjects. <i>Experimental Brain Research</i> , 2005 , 160, 326-33	2.3	99
530	Changes in walking pattern caused by the possibility of a tripping reaction. <i>Gait and Posture</i> , 2001 , 14, 11-8	2.6	99
529	Estimating fall risk with inertial sensors using gait stability measures that do not require step detection. <i>Gait and Posture</i> , 2013 , 38, 170-4	2.6	97
528	Effects of precision demands and mental pressure on muscle activation and hand forces in computer mouse tasks. <i>Ergonomics</i> , 2004 , 47, 202-17	2.9	93
527	Evidence for a role of antagonistic cocontraction in controlling trunk stiffness during lifting. <i>Journal of Biomechanics</i> , 2003 , 36, 1829-36	2.9	92
526	Static and dynamic postural loadings during computer work in females: Sitting on an office chair versus sitting on an exercise ball. <i>Applied Ergonomics</i> , 2009 , 40, 199-205	4.2	89
525	The effect of a passive trunk exoskeleton on functional performance in healthy individuals. <i>Applied Ergonomics</i> , 2018 , 72, 94-106	4.2	89
524	Effects of antagonistic co-contraction on differences between electromyography based and optimization based estimates of spinal forces. <i>Ergonomics</i> , 2005 , 48, 411-26	2.9	88
523	Daily-Life Gait Quality as Predictor of Falls in Older People: A 1-Year Prospective Cohort Study. <i>PLoS ONE</i> , 2016 , 11, e0158623	3.7	88
522	Mechanical coupling between transverse plane pelvis and thorax rotations during gait is higher in people with low back pain. <i>Journal of Biomechanics</i> , 2012 , 45, 342-7	2.9	84
521	The role of dorsal shear forces in the pathogenesis of adolescent idiopathic scoliosis--a hypothesis. <i>Medical Hypotheses</i> , 2005 , 65, 501-8	3.8	83
520	Foot positioning instruction, initial vertical load position and lifting technique: effects on low back loading. <i>Ergonomics</i> , 2004 , 47, 1365-85	2.9	83
519	Low back pain and postural sway during quiet standing with and without sensory manipulation: a systematic review. <i>Gait and Posture</i> , 2013 , 37, 12-22	2.6	82
518	Towards optimal multi-channel EMG electrode configurations in muscle force estimation: a high density EMG study. <i>Journal of Electromyography and Kinesiology</i> , 2005 , 15, 1-11	2.5	81
517	Can co-activation reduce kinematic variability? A simulation study. <i>Biological Cybernetics</i> , 2005 , 93, 373-81	3.8	80
516	Segment inertial parameter evaluation in two anthropometric models by application of a dynamic linked segment model. <i>Journal of Biomechanics</i> , 1996 , 29, 693-704	2.9	80
515	Removing ECG contamination from EMG recordings: a comparison of ICA-based and other filtering procedures. <i>Journal of Electromyography and Kinesiology</i> , 2012 , 22, 485-93	2.5	79

514	Effects of a passive exoskeleton on the mechanical loading of the low back in static holding tasks. <i>Journal of Biomechanics</i> , 2019 , 83, 97-103	2.9	79
513	Identification of fall risk predictors in daily life measurements: gait characteristics, reliability and association with self-reported fall history. <i>Neurorehabilitation and Neural Repair</i> , 2015 , 29, 54-61	4.7	76
512	Heterogeneity of muscle activation in relation to force direction: a multi-channel surface electromyography study on the triceps surae muscle. <i>Journal of Electromyography and Kinesiology</i> , 2009 , 19, 882-95	2.5	76
511	The effect of work pace on workload, motor variability and fatigue during simulated light assembly work. <i>Ergonomics</i> , 2011 , 54, 154-68	2.9	74
510	Muscle activity during the active straight leg raise (ASLR), and the effects of a pelvic belt on the ASLR and on treadmill walking. <i>Journal of Biomechanics</i> , 2010 , 43, 532-9	2.9	74
509	Fractures of the lumbar vertebral endplate in the etiology of low back pain: a hypothesis on the causative role of spinal compression in a specific low back pain. <i>Medical Hypotheses</i> , 1999 , 53, 246-52	3.8	74
508	Age-related intrinsic limitations in preventing a trip and regaining balance after a trip. <i>Safety Science</i> , 2005 , 43, 437-453	5.8	73
507	Stability and variability of knee kinematics during gait in knee osteoarthritis before and after replacement surgery. <i>Clinical Biomechanics</i> , 2010 , 25, 230-6	2.2	72
506	In vitro biomechanical characteristics of the spine: a comparison between human and porcine spinal segments. <i>Spine</i> , 2010 , 35, E35-42	3.3	72
505	Gait coordination in pregnancy: transverse pelvic and thoracic rotations and their relative phase. <i>Clinical Biomechanics</i> , 2004 , 19, 480-8	2.2	71
504	Maximum Lyapunov exponents as predictors of global gait stability: a modelling approach. <i>Medical Engineering and Physics</i> , 2012 , 34, 428-36	2.4	70
503	A systematic review of the relationship between physical activities in sports or daily life and postural sway in upright stance. <i>Sports Medicine</i> , 2013 , 43, 1171-89	10.6	70
502	Stepping strategies for regulating gait adaptability and stability. <i>Journal of Biomechanics</i> , 2013 , 46, 905-11	11	70
501	Low-Back Pain Patients Learn to Adapt Motor Behavior With Adverse Secondary Consequences. <i>Exercise and Sport Sciences Reviews</i> , 2017 , 45, 223-229	6.7	70
500	The effect of osteoporotic vertebral fracture on predicted spinal loads in vivo. <i>European Spine Journal</i> , 2006 , 15, 1785-95	2.7	70
499	Coordination of the leg muscles in backlift and leglift. <i>Journal of Biomechanics</i> , 1992 , 25, 1279-89	2.9	70
498	Motor Control Changes in Low Back Pain: Divergence in Presentations and Mechanisms. <i>Journal of Orthopaedic and Sports Physical Therapy</i> , 2019 , 49, 370-379	4.2	69
497	Joint moments and muscle activity in the lower extremities and lower back in lifting and lowering tasks. <i>Journal of Biomechanics</i> , 1993 , 26, 1067-76	2.9	69

496	Physical Performance and Physical Activity in Older Adults: Associated but Separate Domains of Physical Function in Old Age. <i>PLoS ONE</i> , 2015 , 10, e0144048	3.7	69
495	Are recruitment patterns of the trunk musculature compatible with a synergy based on the maximization of endurance?. <i>Journal of Biomechanics</i> , 1997 , 30, 1095-100	2.9	68
494	Cumulative mechanical low-back load at work is a determinant of low-back pain. <i>Occupational and Environmental Medicine</i> , 2014 , 71, 332-7	2.1	66
493	Stepping strategies used by post-stroke individuals to maintain margins of stability during walking. <i>Clinical Biomechanics</i> , 2013 , 28, 1041-8	2.2	66
492	Impedance is modulated to meet accuracy demands during goal-directed arm movements. <i>Experimental Brain Research</i> , 2006 , 172, 129-38	2.3	66
491	Low-level activity of the trunk extensor muscles causes electromyographic manifestations of fatigue in absence of decreased oxygenation. <i>Journal of Electromyography and Kinesiology</i> , 2009 , 19, 398-406	2.5	65
490	Consensus for experimental design in electromyography (CEDE) project: Amplitude normalization matrix. <i>Journal of Electromyography and Kinesiology</i> , 2020 , 53, 102438	2.5	64
489	Sensitivity of trunk variability and stability measures to balance impairments induced by galvanic vestibular stimulation during gait. <i>Gait and Posture</i> , 2011 , 33, 656-60	2.6	64
488	Effect of lifting height and load mass on low back loading. <i>Ergonomics</i> , 2008 , 51, 1053-63	2.9	64
487	Postural sway parameters in seated balancing; their reliability and relationship with balancing performance. <i>Gait and Posture</i> , 2010 , 31, 42-6	2.6	62
486	Reduced neural drive in bilateral exertions: a performance-limiting factor?. <i>Medicine and Science in Sports and Exercise</i> , 2003 , 35, 111-8	1.2	62
485	Development of fatigue and discomfort in the upper trapezius muscle during light manual work. <i>Ergonomics</i> , 2007 , 50, 161-77	2.9	61
484	Gait in Pregnancy-related Pelvic girdle Pain: amplitudes, timing, and coordination of horizontal trunk rotations. <i>European Spine Journal</i> , 2008 , 17, 1160-9	2.7	60
483	Effects of EMG processing on biomechanical models of muscle joint systems: sensitivity of trunk muscle moments, spinal forces, and stability. <i>Journal of Biomechanics</i> , 2007 , 40, 900-9	2.9	59
482	Is There a Relationship Between Lumbar Proprioception and Low Back Pain? A Systematic Review With Meta-Analysis. <i>Archives of Physical Medicine and Rehabilitation</i> , 2017 , 98, 120-136.e2	2.8	57
481	Kinematic changes during running-induced fatigue and relations with core endurance in novice runners. <i>Journal of Science and Medicine in Sport</i> , 2014 , 17, 419-24	4.4	57
480	Effects of repetitive lifting on kinematics: inadequate anticipatory control or adaptive changes?. <i>Journal of Motor Behavior</i> , 1998 , 30, 20-32	1.4	57
479	Assessing physical activity in older adults: required days of trunk accelerometer measurements for reliable estimation. <i>Journal of Aging and Physical Activity</i> , 2015 , 23, 9-17	1.6	56

478	Optimal inertial sensor location for ambulatory measurement of trunk inclination. <i>Journal of Biomechanics</i> , 2009 , 42, 2406-9	2.9	56
477	Effects of dorsal versus ventral shear loads on the rotational stability of the thoracic spine: a biomechanical porcine and human cadaveric study. <i>Spine</i> , 2007 , 32, 2545-50	3.3	56
476	An investigation into the relevance of the pattern of temporal activation with respect to erector spinae muscle endurance. <i>European Journal of Applied Physiology and Occupational Physiology</i> , 1993 , 66, 70-5		56
475	Lumbar loading during lifting: a comparative study of three measurement techniques. <i>Journal of Electromyography and Kinesiology</i> , 2001 , 11, 337-45	2.5	55
474	Flexion relaxation during lifting: implications for torque production by muscle activity and tissue strain at the lumbo-sacral joint. <i>Journal of Biomechanics</i> , 1995 , 28, 199-210	2.9	55
473	Consistency of gait characteristics as determined from acceleration data collected at different trunk locations. <i>Gait and Posture</i> , 2014 , 40, 187-92	2.6	54
472	Quantifying intervertebral disc mechanics: a new definition of the neutral zone. <i>BMC Musculoskeletal Disorders</i> , 2011 , 12, 38	2.8	54
471	Factors Contributing to Chronic Ankle Instability: A Systematic Review and Meta-Analysis of Systematic Reviews. <i>Sports Medicine</i> , 2018 , 48, 189-205	10.6	51
470	Walking in an unstable environment: strategies used by transtibial amputees to prevent falling during gait. <i>Archives of Physical Medicine and Rehabilitation</i> , 2013 , 94, 2186-93	2.8	51
469	Effect of job rotation on need for recovery, musculoskeletal complaints, and sick leave due to musculoskeletal complaints: a prospective study among refuse collectors. <i>American Journal of Industrial Medicine</i> , 2005 , 47, 394-402	2.7	51
468	The electro-mechanical delay of the erector spinae muscle: influence of rate of force development, fatigue and electrode location. <i>European Journal of Applied Physiology and Occupational Physiology</i> , 1991 , 63, 216-22		51
467	Trunk extensor endurance and its relationship to electromyogram parameters. <i>European Journal of Applied Physiology and Occupational Physiology</i> , 1993 , 66, 388-96		51
466	Scaling anticipatory postural adjustments dependent on confidence of load estimation in a bi-manual whole-body lifting task. <i>Experimental Brain Research</i> , 1998 , 120, 85-94	2.3	50
465	Biomechanical characteristics of different regions of the human spine: an in vitro study on multilevel spinal segments. <i>Spine</i> , 2009 , 34, 2858-64	3.3	49
464	Disc herniations in astronauts: What causes them, and what does it tell us about herniation on earth?. <i>European Spine Journal</i> , 2016 , 25, 144-154	2.7	48
463	Ankle proprioception is not targeted by exercises on an unstable surface. <i>European Journal of Applied Physiology</i> , 2012 , 112, 1577-85	3.4	48
462	The effects of stride length and stride frequency on trunk coordination in human walking. <i>Gait and Posture</i> , 2010 , 31, 444-9	2.6	48
461	Fatigue-induced changes of impedance and performance in target tracking. <i>Experimental Brain Research</i> , 2007 , 181, 99-108	2.3	48

460	A research framework for the development and implementation of interventions preventing work-related musculoskeletal disorders. <i>Scandinavian Journal of Work, Environment and Health</i> , 2017 , 43, 526-539	4.3	48
459	Effect of arm swing strategy on local dynamic stability of human gait. <i>Gait and Posture</i> , 2015 , 41, 504-9	2.6	47
458	Estimating 3D L5/S1 moments and ground reaction forces during trunk bending using a full-body ambulatory inertial motion capture system. <i>Journal of Biomechanics</i> , 2016 , 49, 904-912	2.9	47
457	Manifestations of shoulder fatigue in prolonged activities involving low-force contractions. <i>Ergonomics</i> , 2009 , 52, 428-37	2.9	47
456	Postural control of the trunk during unstable sitting in Parkinson's disease. <i>Parkinsonism and Related Disorders</i> , 2006 , 12, 492-8	3.6	47
455	Impedance modulation and feedback corrections in tracking targets of variable size and frequency. <i>Journal of Neurophysiology</i> , 2006 , 96, 2750-9	3.2	47
454	The inertia tensor versus static moment and mass in perceiving length and heaviness of hand-wielded rods. <i>Journal of Experimental Psychology: Human Perception and Performance</i> , 2002 , 28, 180-191	2.6	47
453	Intra-Rater, Inter-Rater and Test-Retest Reliability of an Instrumented Timed Up and Go (iTUG) Test in Patients with Parkinson's Disease. <i>PLoS ONE</i> , 2016 , 11, e0151881	3.7	47
452	Beta activity in the premotor cortex is increased during stabilized as compared to normal walking. <i>Frontiers in Human Neuroscience</i> , 2015 , 9, 593	3.3	46
451	The effect of a passive trunk exoskeleton on metabolic costs during lifting and walking. <i>Ergonomics</i> , 2019 , 62, 903-916	2.9	45
450	Precision control of trunk movement in low back pain patients. <i>Human Movement Science</i> , 2013 , 32, 228-39		45
449	Gait adaptations in low back pain patients with lumbar disc herniation: trunk coordination and arm swing. <i>European Spine Journal</i> , 2011 , 20, 491-9	2.7	45
448	How to lift a box that is too large to fit between the knees. <i>Ergonomics</i> , 2010 , 53, 1228-38	2.9	45
447	Intervertebral disc recovery after dynamic or static loading in vitro: is there a role for the endplate?. <i>Journal of Biomechanics</i> , 2007 , 40, 2230-5	2.9	45
446	Estimating dynamic gait stability using data from non-aligned inertial sensors. <i>Annals of Biomedical Engineering</i> , 2010 , 38, 2588-93	4.7	44
445	Lifting an unexpectedly heavy object: the effects on low-back loading and balance loss. <i>Clinical Biomechanics</i> , 2000 , 15, 469-77	2.2	44
444	Evaluation of work-rest schedules with respect to the effects of postural workload in standing work. <i>Ergonomics</i> , 1998 , 41, 1832-44	2.9	44
443	Central pain processing is altered in people with Achilles tendinopathy. <i>British Journal of Sports Medicine</i> , 2016 , 50, 1004-7	10.3	43

442	Consensus for experimental design in electromyography (CEDE) project: Electrode selection matrix. <i>Journal of Electromyography and Kinesiology</i> , 2019 , 48, 128-144	2.5	43
441	Validation of a Step Detection Algorithm during Straight Walking and Turning in Patients with Parkinson's Disease and Older Adults Using an Inertial Measurement Unit at the Lower Back. <i>Frontiers in Neurology</i> , 2017 , 8, 457	4.1	43
440	Asymmetric low back loading in asymmetric lifting movements is not prevented by pelvic twist. <i>Journal of Biomechanics</i> , 1998 , 31, 527-34	2.9	43
439	Proprioception of the shoulder after stroke. <i>Archives of Physical Medicine and Rehabilitation</i> , 2008 , 89, 333-8	2.8	43
438	Balance control in stepping down expected and unexpected level changes. <i>Journal of Biomechanics</i> , 2007 , 40, 3641-9	2.9	42
437	SPEXOR passive spinal exoskeleton decreases metabolic cost during symmetric repetitive lifting. <i>European Journal of Applied Physiology</i> , 2020 , 120, 401-412	3.4	42
436	The effect of control strategies for an active back-support exoskeleton on spine loading and kinematics during lifting. <i>Journal of Biomechanics</i> , 2019 , 91, 14-22	2.9	41
435	Effect of initial horizontal object position on peak L5/S1 moments in manual lifting is dependent on task type and familiarity with alternative lifting strategies. <i>Ergonomics</i> , 2011 , 54, 72-81	2.9	41
434	Working height, block mass and one- vs. two-handed block handling: the contribution to low back and shoulder loading during masonry work. <i>Ergonomics</i> , 2009 , 52, 1104-18	2.9	41
433	Sensitivity of single-equivalent trunk extensor muscle models to anatomical and functional assumptions. <i>Journal of Biomechanics</i> , 1999 , 32, 195-8	2.9	41
432	Reproducibility of isometric trunk extension torque, trunk extensor endurance, and related electromyographic parameters in the context of their clinical applicability. <i>Journal of Orthopaedic Research</i> , 1996 , 14, 139-43	3.8	41
431	Repetitive lifting and spinal shrinkage, effects of age and lifting technique. <i>Clinical Biomechanics</i> , 1994 , 9, 367-74	2.2	41
430	The Instrumented Sit-to-Stand Test (iSTS) Has Greater Clinical Relevance than the Manually Recorded Sit-to-Stand Test in Older Adults. <i>PLoS ONE</i> , 2016 , 11, e0157968	3.7	41
429	Low back pain history and postural sway in unstable sitting. <i>Spine</i> , 2010 , 35, 812-7	3.3	40
428	Abdominal muscles contribute in a minor way to peak spinal compression in lifting. <i>Journal of Biomechanics</i> , 1999 , 32, 655-62	2.9	40
427	Effect of acute noxious stimulation to the leg or back on muscle synergies during walking. <i>Journal of Neurophysiology</i> , 2015 , 113, 244-54	3.2	39
426	Interactions of age and leg muscle fatigue on unobstructed walking and obstacle crossing. <i>Gait and Posture</i> , 2014 , 39, 985-90	2.6	39
425	Identifying intrinsic and reflexive contributions to low-back stabilization. <i>Journal of Biomechanics</i> , 2013 , 46, 1440-6	2.9	39

424	Fatigue effects on tracking performance and muscle activity. <i>Journal of Electromyography and Kinesiology</i> , 2008 , 18, 410-9	2.5	39
423	Gastrocnemius muscle fascicle behavior during stair negotiation in humans. <i>Journal of Applied Physiology</i> , 2007 , 102, 1618-23	3.7	39
422	Gait in patients with pregnancy-related pain in the pelvis: an emphasis on the coordination of transverse pelvic and thoracic rotations. <i>Clinical Biomechanics</i> , 2002 , 17, 678-86	2.2	39
421	Within-subject variability in low back load in a repetitively performed, mildly constrained lifting task. <i>Spine</i> , 2001 , 26, 1799-804	3.3	39
420	Spectral analysis of erector spinae EMG during intermittent isometric fatiguing exercise. <i>Ergonomics</i> , 1993 , 36, 407-14	2.9	39
419	The use of the relation between relative force and endurance time. <i>Ergonomics</i> , 1994 , 37, 231-43	2.9	39
418	The effect of walking speed on quality of gait in older adults. <i>Gait and Posture</i> , 2018 , 65, 112-116	2.6	38
417	Stepping asymmetry among individuals with unilateral transtibial limb loss might be functional in terms of gait stability. <i>Physical Therapy</i> , 2014 , 94, 1480-8	3.3	38
416	Center of pressure trajectories, trunk kinematics and trunk muscle activation during unstable sitting in low back pain patients. <i>Gait and Posture</i> , 2013 , 38, 625-30	2.6	38
415	Effect of muscle fatigue and physical activity level in motor control of the gait of young adults. <i>Gait and Posture</i> , 2013 , 38, 702-7	2.6	38
414	Association of postural control with muscle strength, proprioception, self-reported knee instability and activity limitations in patients with knee osteoarthritis. <i>Journal of Rehabilitation Medicine</i> , 2013 , 45, 192-7	3.4	38
413	Effects of narrow base gait on mediolateral balance control in young and older adults. <i>Journal of Biomechanics</i> , 2016 , 49, 1264-1267	2.9	37
412	In vitro torsion-induced stress distribution changes in porcine intervertebral discs. <i>Spine</i> , 2001 , 26, 2582-93	2.3	37
411	Fall-related gait characteristics on the treadmill and in daily life. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2016 , 13, 12	5.3	36
410	Observed differences in upper extremity forces, muscle efforts, postures, velocities and accelerations across computer activities in a field study of office workers. <i>Ergonomics</i> , 2012 , 55, 670-81	2.9	36
409	Lifting over an obstacle: effects of one-handed lifting and hand support on trunk kinematics and low back loading. <i>Journal of Biomechanics</i> , 2004 , 37, 249-55	2.9	36
408	Associations between measures of gait stability, leg strength and fear of falling. <i>Gait and Posture</i> , 2015 , 41, 76-80	2.6	35
407	Exercise-Based Fall Prevention in the Elderly: What About Agility?. <i>Sports Medicine</i> , 2016 , 46, 143-9	10.6	35

406	A systematic review of postural control during single-leg stance in patients with untreated anterior cruciate ligament injury. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2014 , 22, 1491-504	5.5	35
405	The effects of workplace stressors on muscle activity in the neck-shoulder and forearm muscles during computer work: a systematic review and meta-analysis. <i>European Journal of Applied Physiology</i> , 2013 , 113, 2897-912	3.4	35
404	Arm swing in human walking: what is their drive?. <i>Gait and Posture</i> , 2014 , 40, 321-6	2.6	35
403	Understanding the Active Straight Leg Raise (ASLR): an electromyographic study in healthy subjects. <i>Manual Therapy</i> , 2012 , 17, 531-7		35
402	Independent component analysis of high-density electromyography in muscle force estimation. <i>IEEE Transactions on Biomedical Engineering</i> , 2007 , 54, 751-4	5	35
401	Do extreme values of daily-life gait characteristics provide more information about fall risk than median values?. <i>JMIR Research Protocols</i> , 2015 , 4, e4	2	35
400	Can Exercise Positively Influence the Intervertebral Disc?. <i>Sports Medicine</i> , 2016 , 46, 473-85	10.6	34
399	Analysis of Motor Control in Patients With Low Back Pain: A Key to Personalized Care?. <i>Journal of Orthopaedic and Sports Physical Therapy</i> , 2019 , 49, 380-388	4.2	34
398	Learning to balance on one leg: motor strategy and sensory weighting. <i>Journal of Neurophysiology</i> , 2015 , 114, 2967-82	3.2	34
397	Sensitivity of local dynamic stability of over-ground walking to balance impairment due to galvanic vestibular stimulation. <i>Annals of Biomedical Engineering</i> , 2011 , 39, 1563-9	4.7	34
396	Effect of job rotation on work demands, workload, and recovery of refuse truck drivers and collectors. <i>Human Factors</i> , 2004 , 46, 437-48	3.8	34
395	Flow-related mechanics of the intervertebral disc: the validity of an in vitro model. <i>Spine</i> , 2005 , 30, E534-9	3.3	34
394	Toward ambulatory balance assessment: estimating variability and stability from short bouts of gait. <i>Gait and Posture</i> , 2014 , 39, 695-9	2.6	33
393	Bottom-up estimation of joint moments during manual lifting using orientation sensors instead of position sensors. <i>Journal of Biomechanics</i> , 2010 , 43, 1432-6	2.9	33
392	Trunk muscle activation and associated lumbar spine joint shear forces under different levels of external forward force applied to the trunk. <i>Journal of Electromyography and Kinesiology</i> , 2007 , 17, 14-24	2.5	33
391	Orientation of tendons in vivo with active and passive knee muscles. <i>Journal of Biomechanics</i> , 2005 , 38, 1780-8	2.9	33
390	Controlling the Ground Reaction Force During Lifting. <i>Journal of Motor Behavior</i> , 1995 , 27, 225-234	1.4	33
389	Predicting falls among patients with multiple sclerosis: Comparison of patient-reported outcomes and performance-based measures of lower extremity functions. <i>Multiple Sclerosis and Related Disorders</i> , 2017 , 17, 69-74	4	32

388	Are hamstrings activated to counteract shear forces during isometric knee extension efforts in healthy subjects?. <i>Journal of Electromyography and Kinesiology</i> , 2004 , 14, 307-15	2.5	32
387	Total trunk muscle force and spinal compression are lower in asymmetric moments as compared to pure extension moments. <i>Journal of Biomechanics</i> , 1999 , 32, 681-7	2.9	32
386	Weight and frequency effect on spinal loading in a bricklaying task. <i>Journal of Biomechanics</i> , 1996 , 29, 1425-33	2.9	32
385	Spinal Shrinkage as a Parameter of Functional Load. <i>Spine</i> , 1993 , 18, 1504-1514	3.3	32
384	Age effects on mediolateral balance control. <i>PLoS ONE</i> , 2014 , 9, e110757	3.7	32
383	Biomechanical evaluation of a new passive back support exoskeleton. <i>Journal of Biomechanics</i> , 2020 , 105, 109795	2.9	31
382	Position sense acuity of the upper extremity and tracking performance in subjects with non-specific neck and upper extremity pain and healthy controls. <i>Journal of Rehabilitation Medicine</i> , 2010 , 42, 876-83	3.4	31
381	Determination of joint moments with instrumented force shoes in a variety of tasks. <i>Journal of Biomechanics</i> , 2010 , 43, 2848-54	2.9	31
380	Lower-limb biomechanics during stair descent: influence of step-height and body mass. <i>Journal of Experimental Biology</i> , 2008 , 211, 1368-75	3	31
379	Contribution of vertebral [corrected] bodies, endplates, and intervertebral discs to the compression creep of spinal motion segments. <i>Journal of Biomechanics</i> , 2008 , 41, 1260-8	2.9	31
378	Falls Associated with Muscle Strength in Patients with Knee Osteoarthritis and Self-reported Knee Instability. <i>Journal of Rheumatology</i> , 2015 , 42, 1218-23	4.1	30
377	The impact of bone mineral density and disc degeneration on shear strength and stiffness of the lumbar spine following laminectomy. <i>European Spine Journal</i> , 2012 , 21, 530-6	2.7	30
376	Extrapolation of time series of EMG power spectrum parameters in isometric endurance tests of trunk extensor muscles. <i>Journal of Electromyography and Kinesiology</i> , 1998 , 8, 35-44	2.5	30
375	The effects of ergonomic interventions on low back moments are attenuated by changes in lifting behaviour. <i>Ergonomics</i> , 2007 , 50, 1377-91	2.9	30
374	Mechanics of toe and heel landing in stepping down in ongoing gait. <i>Journal of Biomechanics</i> , 2008 , 41, 2417-21	2.9	29
373	Trunk Stability, Trunk Strength and Sport Performance Level in Judo. <i>PLoS ONE</i> , 2016 , 11, e0156267	3.7	29
372	Virtual reality balance training for elderly: Similar skiing games elicit different challenges in balance training. <i>Gait and Posture</i> , 2018 , 59, 111-116	2.6	28
371	Is the psoas a hip flexor in the active straight leg raise?. <i>European Spine Journal</i> , 2011 , 20, 759-65	2.7	28

370	Low-back loading in lifting two loads beside the body compared to lifting one load in front of the body. <i>Journal of Biomechanics</i> , 2009 , 42, 35-41	2.9	28
369	Electromyographical manifestations of muscle fatigue during different levels of simulated light manual assembly work. <i>Journal of Electromyography and Kinesiology</i> , 2009 , 19, e246-56	2.5	28
368	Out-of-plane trunk movements and trunk muscle activity after a trip during walking. <i>Experimental Brain Research</i> , 2005 , 165, 407-12	2.3	28
367	Asymmetry of erector spinae muscle activity in twisted postures and consistency of muscle activation patterns across subjects. <i>Spine</i> , 1996 , 21, 2651-61	3.3	28
366	Fatigue-related changes in the coordination of lifting and their effect on low back load. <i>Journal of Motor Behavior</i> , 1996 , 28, 304-14	1.4	28
365	Effects of hip abductor muscle fatigue on gait control and hip position sense in healthy older adults. <i>Gait and Posture</i> , 2015 , 42, 545-9	2.6	27
364	Postural sway and integration of proprioceptive signals in subjects with LBP. <i>Human Movement Science</i> , 2015 , 39, 109-20	2.4	27
363	The poro-elastic behaviour of the intervertebral disc: A new perspective on diurnal fluid flow. <i>Journal of Biomechanics</i> , 2016 , 49, 857-863	2.9	27
362	EMG modulation in anticipation of a possible trip during walking in young and older adults. <i>Journal of Electromyography and Kinesiology</i> , 2006 , 16, 137-43	2.5	27
361	Effects of leg muscle fatigue on gait in patients with Parkinson's disease and controls with high and low levels of daily physical activity. <i>Gait and Posture</i> , 2016 , 47, 86-91	2.6	27
360	Time to stabilization in single leg drop jump landings: an examination of calculation methods and assessment of differences in sample rate, filter settings and trial length on outcome values. <i>Gait and Posture</i> , 2015 , 41, 63-9	2.6	26
359	Pelvic step: the contribution of horizontal pelvis rotation to step length in young healthy adults walking on a treadmill. <i>Gait and Posture</i> , 2014 , 39, 105-10	2.6	26
358	The validity of stability measures: a modelling approach. <i>Journal of Biomechanics</i> , 2011 , 44, 2401-8	2.9	26
357	Measuring functional abilities of patients with knee problems: rationale and construction of the DynaPort knee test. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2002 , 10, 204-12	5.5	26
356	Monitoring water content in deforming intervertebral disc tissue by finite element analysis of MRI data. <i>Magnetic Resonance in Medicine</i> , 2000 , 44, 650-4	4.4	26
355	Significant mechanical interactions at physiological lengths and relative positions of rat plantar flexors. <i>Journal of Applied Physiology</i> , 2015 , 118, 427-36	3.7	25
354	Fast online corrections of tripping responses. <i>Experimental Brain Research</i> , 2014 , 232, 3579-90	2.3	25
353	When is a lifting movement too asymmetric to identify low-back loading by 2-D analysis?. <i>Ergonomics</i> , 1998 , 41, 1453-61	2.9	25

352	How does postural stability following a single leg drop jump landing task relate to postural stability during a single leg stance balance task?. <i>Journal of Biomechanics</i> , 2014 , 47, 3248-53	2.9	24
351	Effects of age on force steadiness: A literature review and meta-analysis. <i>Ageing Research Reviews</i> , 2017 , 35, 312-321	12	24
350	Robot-assisted walking vs overground walking in stroke patients: an evaluation of muscle activity. <i>Journal of Rehabilitation Medicine</i> , 2012 , 44, 331-7	3.4	24
349	Precision of estimates of mean and peak spinal loads in lifting. <i>Journal of Biomechanics</i> , 2002 , 35, 979-82	2.9	24
348	Effect of a redesigned two-wheeled container for refuse collecting on mechanical loading of low back and shoulders. <i>Ergonomics</i> , 2003 , 46, 543-60	2.9	24
347	Trunk muscle activation and low back loading in lifting in the absence of load knowledge. <i>Ergonomics</i> , 2000 , 43, 333-44	2.9	24
346	Effects of a passive back exoskeleton on the mechanical loading of the low-back during symmetric lifting. <i>Journal of Biomechanics</i> , 2020 , 102, 109486	2.9	24
345	Varus thrust in women with early medial knee osteoarthritis and its relation with the external knee adduction moment. <i>Clinical Biomechanics</i> , 2016 , 39, 109-114	2.2	23
344	The effect of leg preference on postural stability in healthy athletes. <i>Journal of Biomechanics</i> , 2014 , 47, 308-12	2.9	23
343	Determinants of co-contraction during walking before and after arthroplasty for knee osteoarthritis. <i>Clinical Biomechanics</i> , 2012 , 27, 485-94	2.2	23
342	The contribution of the wrist, elbow and shoulder joints to single-finger tapping. <i>Journal of Biomechanics</i> , 2007 , 40, 3013-22	2.9	23
341	Primary spinal segment stability with a stand-alone cage: in vitro evaluation of a successful goat model. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2006 , 77, 454-61	4.3	23
340	Joint coordination during whole-body lifting in women with low back pain after pregnancy. <i>Archives of Physical Medicine and Rehabilitation</i> , 2002 , 83, 1279-89	2.8	23
339	Methods for assessment of trunk stabilization, a systematic review. <i>Journal of Electromyography and Kinesiology</i> , 2016 , 26, 18-35	2.5	22
338	Increase in heterogeneity of biceps brachii activation during isometric submaximal fatiguing contractions: a multichannel surface EMG study. <i>Journal of Neurophysiology</i> , 2014 , 111, 984-90	3.2	22
337	Redundancy or heterogeneity in the electric activity of the biceps brachii muscle? Added value of PCA-processed multi-channel EMG muscle activation estimates in a parallel-fibered muscle. <i>Journal of Electromyography and Kinesiology</i> , 2013 , 23, 892-8	2.5	22
336	Which factors prognosticate spinal instability following lumbar laminectomy?. <i>European Spine Journal</i> , 2012 , 21, 2640-8	2.7	22
335	Fatigue failure in shear loading of porcine lumbar spine segments. <i>Spine</i> , 2006 , 31, E494-8	3.3	22

334	. <i>Spine</i> , 2003 , 28, 834-841	3.3	22
333	The effect of passive vertebral rotation on pressure in the nucleus pulposus. <i>Journal of Biomechanics</i> , 2001 , 34, 405-8	2.9	22
332	Stress distribution changes in bovine vertebrae just below the endplate after sustained loading. <i>Clinical Biomechanics</i> , 2001 , 16 Suppl 1, S135-42	2.2	22
331	Dynamic forces acting on the lumbar spine during manual handling. Can they be estimated using electromyographic techniques alone?. <i>Spine</i> , 1999 , 24, 698-703	3.3	22
330	Continuous ambulatory hand force monitoring during manual materials handling using instrumented force shoes and an inertial motion capture suit. <i>Journal of Biomechanics</i> , 2018 , 70, 235-241 ^{2.9}	2.9	21
329	Postural stability and ankle sprain history in athletes compared to uninjured controls. <i>Clinical Biomechanics</i> , 2014 , 29, 183-8	2.2	21
328	Effects of fatigue on trunk stability in elite gymnasts. <i>European Journal of Applied Physiology</i> , 2012 , 112, 1307-13	3.4	21
327	Precision of estimates of local stability of repetitive trunk movements. <i>European Spine Journal</i> , 2013 , 22, 2678-85	2.7	21
326	A systematic review and meta-analysis of dynamic tests and related force plate parameters used to evaluate neuromusculoskeletal function in foot and ankle pathology. <i>Clinical Biomechanics</i> , 2013 , 28, 591-601	2.2	21
325	Frequency domain mediolateral balance assessment using a center of pressure tracking task. <i>Journal of Biomechanics</i> , 2013 , 46, 2831-6	2.9	21
324	No functionally relevant mechanical effects of epimuscular myofascial connections between rat ankle plantar flexors. <i>Journal of Experimental Biology</i> , 2015 , 218, 2935-41	3	21
323	Estimation of low back moments from video analysis: a validation study. <i>Journal of Biomechanics</i> , 2011 , 44, 2369-75	2.9	21
322	Effectiveness of a questionnaire based intervention programme on the prevalence of arm, shoulder and neck symptoms, risk factors and sick leave in computer workers: a cluster randomised controlled trial in an occupational setting. <i>BMC Musculoskeletal Disorders</i> , 2010 , 11, 99	2.8	21
321	Effects of constrained trunk movement on frontal plane gait kinematics. <i>Journal of Biomechanics</i> , 2016 , 49, 3085-3089	2.9	21
320	Frontal plane kinematics in walking with moderate hip osteoarthritis: Stability and fall risk. <i>Clinical Biomechanics</i> , 2015 , 30, 874-80	2.2	20
319	Elevated C-reactive protein is associated with lower increase in knee muscle strength in patients with knee osteoarthritis: a 2-year follow-up study in the Amsterdam Osteoarthritis (AMS-OA) cohort. <i>Arthritis Research and Therapy</i> , 2014 , 16, R123	5.7	20
318	A benchmark test of accuracy and precision in estimating dynamical systems characteristics from a time series. <i>Journal of Biomechanics</i> , 2014 , 47, 470-5	2.9	20
317	Algorithm for Turning Detection and Analysis Validated under Home-Like Conditions in Patients with Parkinson's Disease and Older Adults using a 6 Degree-of-Freedom Inertial Measurement Unit at the Lower Back. <i>Frontiers in Neurology</i> , 2017 , 8, 135	4.1	20

316	Three-dimensional ankle moments and nonlinear summation of rat triceps surae muscles. <i>PLoS ONE</i> , 2014 , 9, e111595	3.7	20
315	Biomechanical assessment of the effects of decompressive surgery in non-chondrodystrophic and chondrodystrophic canine multisegmented lumbar spines. <i>European Spine Journal</i> , 2012 , 21, 1692-9	2.7	20
314	Temporal strategy and performance during a fatiguing short-cycle repetitive task. <i>Ergonomics</i> , 2012 , 55, 863-73	2.9	20
313	The effect of over-commitment and reward on trapezius muscle activity and shoulder, head, neck, and torso postures during computer use in the field. <i>American Journal of Industrial Medicine</i> , 2013 , 56, 1190-200	2.7	20
312	Cart pushing: The effects of magnitude and direction of the exerted push force, and of trunk inclination on low back loading. <i>International Journal of Industrial Ergonomics</i> , 2007 , 37, 832-844	2.9	20
311	The influence of torque and velocity on erector spinae muscle fatigue and its relationship to changes of electromyogram spectrum density. <i>European Journal of Applied Physiology and Occupational Physiology</i> , 1996 , 72, 310-5		20
310	Developing a toolkit for the assessment and monitoring of musculoskeletal ageing. <i>Age and Ageing</i> , 2018 , 47, iv1-iv19	3	20
309	Do clinical assessments, steady-state or daily-life gait characteristics predict falls in ambulatory chronic stroke survivors?. <i>Journal of Rehabilitation Medicine</i> , 2017 , 49, 402-409	3.4	19
308	Characteristics of daily life gait in fall and non fall-prone stroke survivors and controls. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2016 , 13, 67	5.3	19
307	Sports-related testing protocols are required to reveal trunk stability adaptations in high-level athletes. <i>Gait and Posture</i> , 2016 , 49, 90-96	2.6	19
306	Effects of experimentally increased trunk stiffness on thorax and pelvis rotations during walking. <i>Human Movement Science</i> , 2014 , 33, 194-202	2.4	19
305	Effects of epimuscular myofascial force transmission on sarcomere length of passive muscles in the rat hindlimb. <i>Physiological Reports</i> , 2015 , 3, e12608	2.6	19
304	Stride frequency and length adjustment in post-stroke individuals: influence on the margins of stability. <i>Journal of Rehabilitation Medicine</i> , 2015 , 47, 126-32	3.4	19
303	Association of serum C-reactive protein and erythrocyte sedimentation rate with muscle strength in patients with knee osteoarthritis. <i>Rheumatology</i> , 2013 , 52, 727-32	3.9	19
302	Low back pain: we cannot afford ignoring work. <i>Spine Journal</i> , 2011 , 11, 164; author reply 165-6	4	19
301	Smaller external notebook mice have different effects on posture and muscle activity. <i>Clinical Biomechanics</i> , 2008 , 23, 727-34	2.2	19
300	The effects of precision demands during a low intensity pinching task on muscle activation and load sharing of the fingers. <i>Journal of Electromyography and Kinesiology</i> , 2003 , 13, 149-57	2.5	19
299	An EMG technique for measuring spinal loading during asymmetric lifting. <i>Clinical Biomechanics</i> , 2001 , 16 Suppl 1, S17-24	2.2	19

298	Directionality of anticipatory activation of trunk muscles in a lifting task depends on load knowledge. <i>Experimental Brain Research</i> , 1999 , 128, 397-404	2.3	19
297	Where to Step? Contributions of Stance Leg Muscle Spindle Afference to Planning of Mediolateral Foot Placement for Balance Control in Young and Old Adults. <i>Frontiers in Physiology</i> , 2018 , 9, 1134	4.6	19
296	The human sensorimotor cortex fosters muscle synergies through cortico-synergy coherence. <i>NeuroImage</i> , 2019 , 199, 30-37	7.9	18
295	Can explicit visual feedback of postural sway efface the effects of sensory manipulations on mediolateral balance performance?. <i>Journal of Neurophysiology</i> , 2016 , 115, 907-14	3.2	18
294	A novel accelerometry-based algorithm for the detection of step durations over short episodes of gait in healthy elderly. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2016 , 13, 38	5.3	18
293	Supporting the upper body with the hand on the thigh reduces back loading during lifting. <i>Journal of Biomechanics</i> , 2016 , 49, 881-889	2.9	18
292	Older Adults with Weaker Muscle Strength Stand up from a Sitting Position with More Dynamic Trunk Use. <i>Sensors</i> , 2018 , 18,	3.8	18
291	Systematic review of the effects of fatigue on spatiotemporal gait parameters. <i>Journal of Back and Musculoskeletal Rehabilitation</i> , 2013 , 26, 125-31	1.4	18
290	The effect of muscle fatigue on the last stride before stepping down a curb. <i>Gait and Posture</i> , 2013 , 37, 542-6	2.6	18
289	Effects of unilateral leg muscle fatigue on balance control in perturbed and unperturbed gait in healthy elderly. <i>Gait and Posture</i> , 2014 , 40, 215-9	2.6	18
288	The effects of knee arthroplasty on walking speed: a meta-analysis. <i>BMC Musculoskeletal Disorders</i> , 2012 , 13, 66	2.8	18
287	Control of the lateral abdominal muscles during walking. <i>Human Movement Science</i> , 2012 , 31, 880-96	2.4	18
286	A comparison of a maximum exertion method and a model-based, sub-maximum exertion method for normalizing trunk EMG. <i>Journal of Electromyography and Kinesiology</i> , 2011 , 21, 767-73	2.5	18
285	Validation of seat-off and seat-on in repeated sit-to-stand movements using a single-body-fixed sensor. <i>Physiological Measurement</i> , 2012 , 33, 1855-67	2.9	18
284	Evaluation of the probability of spinal damage caused by sustained cyclic compression loading. <i>Human Factors</i> , 1997 , 39, 469-80	3.8	18
283	Differences in low back load between kneeling and seated working at ground level. <i>Applied Ergonomics</i> , 1997 , 28, 355-63	4.2	18
282	Are Stability and Instability Relevant Concepts for Back Pain?. <i>Journal of Orthopaedic and Sports Physical Therapy</i> , 2019 , 49, 415-424	4.2	17
281	Torsion biomechanics of the spine following lumbar laminectomy: a human cadaver study. <i>European Spine Journal</i> , 2013 , 22, 1785-93	2.7	17

280	Modelling creep behaviour of the human intervertebral disc. <i>Journal of Biomechanics</i> , 2013 , 46, 2101-3	2.9	17
279	Increased knee muscle strength is associated with decreased activity limitations in established knee osteoarthritis: Two-year follow-up study in the Amsterdam osteoarthritis cohort. <i>Journal of Rehabilitation Medicine</i> , 2015 , 47, 647-54	3.4	17
278	Relation between postural sway magnitude and metabolic energy cost during upright standing on a compliant surface. <i>Journal of Applied Physiology</i> , 2015 , 119, 696-703	3.7	17
277	The contribution of load magnitude and number of load cycles to cumulative low-back load estimations: a study based on in-vitro compression data. <i>Clinical Biomechanics</i> , 2012 , 27, 1083-6	2.2	17
276	How is precision regulated in maintaining trunk posture?. <i>Experimental Brain Research</i> , 2010 , 203, 39-49	2.3	17
275	Regional changes in spine posture at lift onset with changes in lift distance and lift style. <i>Spine</i> , 2007 , 32, 1599-604	3.3	17
274	The effect of joystick handle size and gain at two levels of required precision on performance and physical load on crane operators. <i>Ergonomics</i> , 2006 , 49, 1021-35	2.9	17
273	Effects of support surface stability on feedback control of trunk posture. <i>Experimental Brain Research</i> , 2015 , 233, 1079-87	2.3	16
272	Reproducibility of a knee and hip proprioception test in healthy older adults. <i>Aging Clinical and Experimental Research</i> , 2015 , 27, 171-7	4.8	16
271	Hip abductor neuromuscular capacity: A limiting factor in mediolateral balance control in older adults?. <i>Clinical Biomechanics</i> , 2016 , 37, 27-33	2.2	16
270	Effect of triceps surae and quadriceps muscle fatigue on the mechanics of landing in stepping down in ongoing gait. <i>Ergonomics</i> , 2014 , 57, 934-42	2.9	16
269	Precision control of an upright trunk posture in low back pain patients. <i>Clinical Biomechanics</i> , 2012 , 27, 866-71	2.2	16
268	Electromyographic activity of trunk muscles during exercises with flexible and non-flexible poles. <i>Journal of Back and Musculoskeletal Rehabilitation</i> , 2011 , 24, 209-14	1.4	16
267	The effect of a resistance-training program on muscle strength, physical workload, muscle fatigue and musculoskeletal discomfort: an experiment. <i>Applied Ergonomics</i> , 2009 , 40, 396-403	4.2	16
266	Effect of ship motion on spinal loading during manual lifting. <i>Ergonomics</i> , 2008 , 51, 1426-40	2.9	16
265	Optimal stride frequencies in running at different speeds. <i>PLoS ONE</i> , 2017 , 12, e0184273	3.7	16
264	Modulation of intrinsic and reflexive contributions to low-back stabilization due to vision, task instruction, and perturbation bandwidth. <i>Experimental Brain Research</i> , 2015 , 233, 735-49	2.3	15
263	Trunk muscle coactivation is tuned to changes in task dynamics to improve responsiveness in a seated balance task. <i>Journal of Electromyography and Kinesiology</i> , 2015 , 25, 765-72	2.5	15

262	Time series of ground reaction forces following a single leg drop jump landing in elite youth soccer players consist of four distinct phases. <i>Gait and Posture</i> , 2016 , 50, 137-144	2.6	15
261	Recovery of gait after quadriceps muscle fatigue. <i>Gait and Posture</i> , 2016 , 43, 270-4	2.6	15
260	Improved Prediction of Falls in Community-Dwelling Older Adults Through Phase-Dependent Entropy of Daily-Life Walking. <i>Frontiers in Aging Neuroscience</i> , 2018 , 10, 44	5.3	15
259	Office workers' computer use patterns are associated with workplace stressors. <i>Applied Ergonomics</i> , 2014 , 45, 1660-7	4.2	15
258	SPEXOR: Spinal Exoskeletal Robot for Low Back Pain Prevention and Vocational Reintegration. <i>Biosystems and Biorobotics</i> , 2017 , 311-315	0.2	15
257	Validation of vibration testing for the assessment of the mechanical properties of human lumbar motion segments. <i>Journal of Biomechanics</i> , 2012 , 45, 1753-8	2.9	15
256	The effect of ship accelerations on three-dimensional low back loading during lifting and pulling activities. <i>International Journal of Industrial Ergonomics</i> , 2003 , 32, 51-63	2.9	15
255	Estimating net lumbar sagittal plane moments from EMG data. The validity of calibration procedures. <i>Journal of Electromyography and Kinesiology</i> , 1999 , 9, 309-15	2.5	15
254	Two-stage muscle activity responses in decisions about leg movement adjustments during trip recovery. <i>Journal of Neurophysiology</i> , 2016 , 115, 143-56	3.2	15
253	A lumped stiffness model of intermuscular and extramuscular myofascial pathways of force transmission. <i>Biomechanics and Modeling in Mechanobiology</i> , 2016 , 15, 1747-1763	3.8	15
252	Effect of a kneeling chair on lumbar curvature in patients with low back pain and healthy controls: A pilot study. <i>Annals of Physical and Rehabilitation Medicine</i> , 2015 , 58, 151-6	3.8	14
251	Centre of pressure or centre of mass feedback in mediolateral balance assessment. <i>Journal of Biomechanics</i> , 2015 , 48, 539-43	2.9	14
250	The validity of assessing temporal events, sub-phases and trunk kinematics of the sit-to-walk movement in older adults using a single inertial sensor. <i>Journal of Biomechanics</i> , 2016 , 49, 1933-1937	2.9	14
249	Effects of vision and lumbar posture on trunk neuromuscular control. <i>Journal of Biomechanics</i> , 2015 , 48, 298-303	2.9	14
248	Competing effects of pain and fear of pain on postural control in low back pain?. <i>Spine</i> , 2014 , 39, E1518-23	3.3	14
247	Non-specific low back pain. <i>Lancet, The</i> , 2012 , 379, 1874; author reply 1874-5	4.0	14
246	The effects of creep and recovery on the in vitro biomechanical characteristics of human multi-level thoracolumbar spinal segments. <i>Clinical Biomechanics</i> , 2011 , 26, 438-44	2.2	14
245	Effects of conflicting constraints and age on strategy choice in stepping down during gait. <i>Gait and Posture</i> , 2009 , 29, 343-5	2.6	14

244	Influence of gait velocity on gastrocnemius muscle fascicle behaviour during stair negotiation. <i>Journal of Electromyography and Kinesiology</i> , 2009 , 19, 304-13	2.5	14
243	Oblique abdominal muscle activity in response to external perturbations when pushing a cart. <i>Journal of Biomechanics</i> , 2010 , 43, 1364-72	2.9	14
242	Effect of a stiff lifting belt on spine compression during lifting. <i>Spine</i> , 2006 , 31, E833-9	3.3	14
241	Factors underlying the perturbation resistance of the trunk in the first part of a lifting movement. <i>Biological Cybernetics</i> , 2005 , 93, 54-62	2.8	14
240	The effect of overcommitment and reward on muscle activity, posture, and forces in the arm-wrist-hand region--a field study among computer workers. <i>Scandinavian Journal of Work, Environment and Health</i> , 2013 , 39, 379-89	4.3	14
239	The effect of external lateral stabilization on the use of foot placement to control mediolateral stability in walking and running. <i>PeerJ</i> , 2019 , 7, e7939	3.1	14
238	Revealing the optimal thresholds for movement performance: A systematic review and meta-analysis to benchmark pathological walking behaviour. <i>Neuroscience and Biobehavioral Reviews</i> , 2020 , 108, 24-33	9	14
237	Performance on a Single-Legged Drop-Jump Landing Test Is Related to Increased Risk of Lateral Ankle Sprains Among Male Elite Soccer Players: A 3-Year Prospective Cohort Study. <i>American Journal of Sports Medicine</i> , 2018 , 46, 3454-3462	6.8	14
236	Kinematic analysis of the drag flick in field hockey. <i>Sports Biomechanics</i> , 2017 , 16, 45-57	2.2	13
235	Responses to gait perturbations in stroke survivors who prospectively experienced falls or no falls. <i>Journal of Biomechanics</i> , 2017 , 55, 56-63	2.9	13
234	Effects of noxious stimulation to the back or calf muscles on gait stability. <i>Journal of Biomechanics</i> , 2015 , 48, 4109-4115	2.9	13
233	The association between age and accelerometry-derived types of habitual daily activity: an observational study over the adult life span in the Netherlands. <i>BMC Public Health</i> , 2018 , 18, 824	4.1	13
232	Clinimetric properties of a novel feedback device for assessing gait parameters in stroke survivors. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2014 , 11, 30	5.3	13
231	The degree of misjudgment between perceived and actual gait ability in older adults. <i>Gait and Posture</i> , 2017 , 51, 275-280	2.6	13
230	Internal consistency, test-retest reliability and concurrent validity of a questionnaire on work-related exposure related to arm, shoulder and neck symptoms in computer workers. <i>Ergonomics</i> , 2009 , 52, 1087-103	2.9	13
229	Effect of design of two-wheeled containers on mechanical loading. <i>International Journal of Industrial Ergonomics</i> , 2003 , 31, 73-86	2.9	13
228	Underestimation of object mass in lifting does not increase the load on the low back. <i>Journal of Biomechanics</i> , 2001 , 34, 1447-53	2.9	13
227	Understanding Motivations and Player Experiences of Older Adults in Virtual Reality Training. <i>Games for Health Journal</i> , 2018 ,	4.2	13

226	Impaired local dynamic stability during treadmill walking predicts future falls in patients with multiple sclerosis: A prospective cohort study. <i>Clinical Biomechanics</i> , 2019 , 67, 197-201	2.2	12
225	Mediolateral balance and gait stability in older adults. <i>Gait and Posture</i> , 2015 , 42, 79-84	2.6	12
224	Does a novel exergame challenge balance and activate muscles more than existing off-the-shelf exergames?. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2020 , 17, 6	5.3	12
223	Estimating the L5S1 flexion/extension moment in symmetrical lifting using a simplified ambulatory measurement system. <i>Journal of Biomechanics</i> , 2018 , 70, 242-248	2.9	12
222	Phase-dependent changes in local dynamic stability during walking in elderly with and without knee osteoarthritis. <i>Journal of Biomechanics</i> , 2016 , 49, 80-86	2.9	12
221	Effects of Ankle Muscle Fatigue and Visual Behavior on Postural Sway in Young Adults. <i>Frontiers in Physiology</i> , 2019 , 10, 643	4.6	12
220	Single level lumbar laminectomy alters segmental biomechanical behavior without affecting adjacent segments. <i>Clinical Biomechanics</i> , 2014 , 29, 912-7	2.2	12
219	Effects of repetitive movement on range of motion and stiffness around the neutral orientation of the human lumbar spine. <i>Journal of Biomechanics</i> , 2013 , 46, 187-91	2.9	12
218	Inter-rater reliability of a video-analysis method measuring low-back load in a field situation. <i>Applied Ergonomics</i> , 2013 , 44, 828-34	4.2	12
217	Test-retest reliability of muscle vibration effects on postural sway. <i>Gait and Posture</i> , 2014 , 40, 166-71	2.6	12
216	Validity of estimates of spinal compression forces obtained from worksite measurements. <i>Ergonomics</i> , 2010 , 53, 792-800	2.9	12
215	Car driving with and without a movable back support: Effect on transmission of vibration through the trunk and on its consequences for muscle activation and spinal shrinkage. <i>Ergonomics</i> , 2009 , 52, 830-9	2.9	12
214	Handle height and expectation of cart movement affect the control of trunk motion at movement onset in cart pushing. <i>Ergonomics</i> , 2011 , 54, 971-82	2.9	12
213	Grip force control in patients with neck and upper extremity pain and healthy controls. <i>Clinical Neurophysiology</i> , 2008 , 119, 1840-1848	4.3	12
212	The influence of artificially increased trunk stiffness on the balance recovery after a trip. <i>Gait and Posture</i> , 2007 , 26, 272-8	2.6	12
211	Mechanical behaviour and strength of the motion segment under compression: Implications for the evaluation of physical work load. <i>International Journal of Industrial Ergonomics</i> , 1994 , 14, 293-305	2.9	12
210	Sensory contributions to stabilization of trunk posture in the sagittal plane. <i>Journal of Biomechanics</i> , 2018 , 70, 219-227	2.9	12
209	Stride and Step Length Obtained with Inertial Measurement Units during Maximal Sprint Acceleration. <i>Sports</i> , 2019 , 7,	3	11

208	Potential Markers of Progression in Idiopathic Parkinson's Disease Derived From Assessment of Circular Gait With a Single Body-Fixed-Sensor: A 5 Year Longitudinal Study. <i>Frontiers in Human Neuroscience</i> , 2019 , 13, 59	3.3	11
207	The effects of single-level instrumented lumbar laminectomy on adjacent spinal biomechanics. <i>Global Spine Journal</i> , 2015 , 5, 39-48	2.7	11
206	Trunk, head and pelvis interactions in healthy children when performing seated daily arm tasks. <i>Experimental Brain Research</i> , 2018 , 236, 2023-2036	2.3	11
205	Is the Assessment of 5 Meters of Gait with a Single Body-Fixed-Sensor Enough to Recognize Idiopathic Parkinson's Disease-Associated Gait?. <i>Annals of Biomedical Engineering</i> , 2017 , 45, 1266-1278	4.7	11
204	Assessing the stability of human locomotion: a review of current measures. <i>Journal of the Royal Society Interface</i> , 2014 , 11, 20130900	4.1	11
203	The cost-effectiveness of the RSI QuickScan intervention programme for computer workers: Results of an economic evaluation alongside a randomised controlled trial. <i>BMC Musculoskeletal Disorders</i> , 2010 , 11, 259	2.8	11
202	Influence of step-height and body mass on gastrocnemius muscle fascicle behavior during stair ascent. <i>Journal of Biomechanics</i> , 2008 , 41, 937-44	2.9	11
201	Changes in joint stability with muscle contraction measured from transmission of mechanical vibration. <i>Journal of Biomechanics</i> , 2006 , 39, 2850-6	2.9	11
200	Workload of window cleaners using ladders differing in rung separation. <i>Applied Ergonomics</i> , 2005 , 36, 275-82	4.2	11
199	Prolonged Intermittent Trunk Flexion Increases Trunk Muscles Reflex Gains and Trunk Stiffness. <i>PLoS ONE</i> , 2016 , 11, e0162703	3.7	11
198	Passive Trunk Exoskeleton Acceptability and Effects on Self-efficacy in Employees with Low-Back Pain: A Mixed Method Approach. <i>Journal of Occupational Rehabilitation</i> , 2021 , 31, 129-141	3.6	11
197	Altered mechanical interaction between rat plantar flexors due to changes in intermuscular connectivity. <i>Scandinavian Journal of Medicine and Science in Sports</i> , 2017 , 27, 177-187	4.6	10
196	Don't forget the trunk in Duchenne muscular dystrophy patients: more muscle weakness and compensation than expected. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2019 , 16, 44	5.3	10
195	Testing an Exoskeleton That Helps Workers With Low-Back Pain: Less Discomfort With the Passive SPEXOR Trunk Device. <i>IEEE Robotics and Automation Magazine</i> , 2020 , 27, 66-76	3.4	10
194	Kinematic and kinetic analysis of the goalkeeper's diving save in football. <i>Journal of Sports Sciences</i> , 2019 , 37, 313-321	3.6	10
193	Interactions of touch feedback with muscle vibration and galvanic vestibular stimulation in the control of trunk posture. <i>Gait and Posture</i> , 2014 , 39, 745-9	2.6	10
192	Fractional Stability of Trunk Acceleration Dynamics of Daily-Life Walking: Toward a Unified Concept of Gait Stability. <i>Frontiers in Physiology</i> , 2017 , 8, 516	4.6	10
191	Trunk muscle control in response to (un)expected turns in cart pushing. <i>Gait and Posture</i> , 2012 , 36, 133-8.6	10	

190	The feasibility of modal testing for measurement of the dynamic characteristics of goat vertebral motion segments. <i>Journal of Biomechanics</i> , 2011 , 44, 1478-83	2.9	10
189	Viscoelasticity of the individual spine. <i>Clinical Biomechanics</i> , 1994 , 9, 61-3	2.2	10
188	On the validity and consistency of misjudgment of stepping ability in young and older adults. <i>PLoS ONE</i> , 2017 , 12, e0190088	3.7	10
187	Changes in gait characteristics of women with early and established medial knee osteoarthritis: Results from a 2-years longitudinal study. <i>Clinical Biomechanics</i> , 2017 , 50, 32-39	2.2	10
186	Perspectives of End Users on the Potential Use of Trunk Exoskeletons for People With Low-Back Pain: A Focus Group Study. <i>Human Factors</i> , 2020 , 62, 365-376	3.8	10
185	Validation of a wearable system for 3D ambulatory L5/S1 moment assessment during manual lifting using instrumented shoes and an inertial sensor suit. <i>Journal of Biomechanics</i> , 2020 , 102, 109671	2.9	9
184	Coupled motions in human and porcine thoracic and lumbar spines. <i>Journal of Biomechanics</i> , 2018 , 70, 51-58	2.9	9
183	Development and evaluation of a passive trunk support system for Duchenne muscular dystrophy patients. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2018 , 15, 22	5.3	9
182	The effect of the stability threshold on time to stabilization and its reliability following a single leg drop jump landing. <i>Journal of Biomechanics</i> , 2016 , 49, 496-501	2.9	9
181	Measurement strategy and statistical power in studies assessing gait stability and variability in older adults. <i>Aging Clinical and Experimental Research</i> , 2016 , 28, 257-65	4.8	9
180	Center of Pressure Motion After Calf Vibration Is More Random in Fallers Than Non-fallers: Prospective Study of Older Individuals. <i>Frontiers in Physiology</i> , 2018 , 9, 273	4.6	9
179	Gait quality assessed by trunk accelerometry after total knee arthroplasty and its association with patient related outcome measures. <i>Clinical Biomechanics</i> , 2019 , 70, 192-196	2.2	9
178	Reproducibility and validity of the myotest for measuring step frequency and ground contact time in recreational runners. <i>Journal of Human Kinetics</i> , 2015 , 45, 19-26	2.6	9
177	Letter to the editor: "Sensitivity of the Wolfß and Rosensteinß algorithms to evaluate local dynamic stability from small gait data sets". <i>Annals of Biomedical Engineering</i> , 2012 , 40, 2505-6; author reply 2507-9	4.7	9
176	Hamstrings co-activation in ACL-deficient subjects during isometric whole-leg extensions. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2009 , 17, 946-55	5.5	9
175	Co-contraction during static and dynamic knee extensions in ACL deficient subjects. <i>Journal of Electromyography and Kinesiology</i> , 2005 , 15, 349-57	2.5	9
174	The biomechanics of running and running styles: a synthesis. <i>Sports Biomechanics</i> , 2021 , 1-39	2.2	9
173	Synergistic Co-activation Increases the Extent of Mechanical Interaction between Rat Ankle Plantar-Flexors. <i>Frontiers in Physiology</i> , 2016 , 7, 414	4.6	9

172	Can low back loading during lifting be reduced by placing one leg beside the object to be lifted?. <i>Physical Therapy</i> , 2006 , 86, 1091-105	3.3	9
171	Longitudinal and transversal displacements between triceps surae muscles during locomotion of the rat. <i>Journal of Experimental Biology</i> , 2017 , 220, 537-550	3	8
170	Transfer and retention effects of gait training with anterior-posterior perturbations to postural responses after medio-lateral gait perturbations in older adults. <i>Clinical Biomechanics</i> , 2020 , 75, 104988	2.2	8
169	Self-perceived gait stability modulates the effect of daily life gait quality on prospective falls in older adults. <i>Gait and Posture</i> , 2018 , 62, 475-479	2.6	8
168	Weight bearing exercise can elicit similar peak muscle activation as medium-high intensity resistance exercise in elderly women. <i>European Journal of Applied Physiology</i> , 2018 , 118, 531-541	3.4	8
167	Evidence of splinting in low back pain? A systematic review of perturbation studies. <i>European Spine Journal</i> , 2018 , 27, 40-59	2.7	8
166	Limited mechanical effects of intermuscular myofascial connections within the intact rat anterior crural compartment. <i>Journal of Biomechanics</i> , 2016 , 49, 2953-2959	2.9	8
165	Nonlinear relationship between isokinetic muscle strength and activity limitations in patients with knee osteoarthritis: Results of the Amsterdam-Osteoarthritis cohort. <i>Journal of Rehabilitation Medicine</i> , 2017 , 49, 598-605	3.4	8
164	On Gait Analysis Estimation Errors Using Force Sensors on a Smart Rollator. <i>Sensors</i> , 2016 , 16,	3.8	8
163	Consensus for experimental design in electromyography (CEDE) project: Terminology matrix. <i>Journal of Electromyography and Kinesiology</i> , 2021 , 59, 102565	2.5	8
162	Dynamic and static knee alignment at baseline predict structural abnormalities on MRI associated with medial compartment knee osteoarthritis after 2 years. <i>Gait and Posture</i> , 2017 , 57, 46-51	2.6	7
161	The effect of neighboring segments on the measurement of segmental stiffness in the intact lumbar spine. <i>Spine Journal</i> , 2015 , 15, 1302-9	4	7
160	Virtual Reality Balance Games Provide Little Muscular Challenge to Prevent Muscle Weakness in Healthy Older Adults. <i>Games for Health Journal</i> , 2020 , 9, 227-236	4.2	7
159	Hypogravity reduces trunk admittance and lumbar muscle activation in response to external perturbations. <i>Journal of Applied Physiology</i> , 2020 , 128, 1044-1055	3.7	7
158	The effect of anteroposterior perturbations on the control of the center of mass during treadmill walking. <i>Journal of Biomechanics</i> , 2020 , 103, 109660	2.9	7
157	Modulation of soleus muscle H-reflexes and ankle muscle co-contraction with surface compliance during unipedal balancing in young and older adults. <i>Experimental Brain Research</i> , 2020 , 238, 1371-1383	2.3	7
156	Trunk stabilization during sagittal pelvic tilt: from trunk-on-pelvis to trunk-in-space due to vestibular and visual feedback. <i>Journal of Neurophysiology</i> , 2016 , 115, 1381-8	3.2	7
155	Development and Validation of a Method to Measure Lumbar Motion Using Ultrasound Imaging. <i>Ultrasound in Medicine and Biology</i> , 2016 , 42, 1221-9	3.5	7

154	Myofascial Loads Can Occur without Fascicle Length Changes. <i>Integrative and Comparative Biology</i> , 2018 , 58, 251-260	2.8	7
153	Quality of Daily-Life Gait: Novel Outcome for Trials that Focus on Balance, Mobility, and Falls. <i>Sensors</i> , 2019 , 19,	3.8	7
152	Prediction of trapezius muscle activity and shoulder, head, neck, and torso postures during computer use: results of a field study. <i>BMC Musculoskeletal Disorders</i> , 2014 , 15, 292	2.8	7
151	Maximum acceptable weight of lift reflects peak lumbosacral extension moments in a functional capacity evaluation test using free style, stoop and squat lifting. <i>Ergonomics</i> , 2012 , 55, 343-9	2.9	7
150	Control of trunk motion following sudden stop perturbations during cart pushing. <i>Journal of Biomechanics</i> , 2011 , 44, 121-7	2.9	7
149	Low back pain: doesn't work matter at all?. <i>Occupational Medicine</i> , 2012 , 62, 152-3; author reply 153-4	2.1	7
148	Lumbar bone mass predicts low back pain in males. <i>Spine</i> , 2012 , 37, 1579-85	3.3	7
147	Associations between serum markers of collagen metabolism and spinal shrinkage. <i>Clinical Biomechanics</i> , 2004 , 19, 209-12	2.2	7
146	The effect of timing of a perturbation on the execution of a lifting movement. <i>Human Movement Science</i> , 2001 , 20, 243-55	2.4	7
145	Running Speed Can Be Predicted from Foot Contact Time during Outdoor over Ground Running. <i>PLoS ONE</i> , 2016 , 11, e0163023	3.7	7
144	Active foot placement control ensures stable gait: Effect of constraints on foot placement and ankle moments. <i>PLoS ONE</i> , 2020 , 15, e0242215	3.7	7
143	Inter-individual differences in stride frequencies during running obtained from wearable data. <i>Journal of Sports Sciences</i> , 2019 , 37, 1996-2006	3.6	6
142	Perturbation-based gait training to improve daily life gait stability in older adults at risk of falling: protocol for the REACT randomized controlled trial. <i>BMC Geriatrics</i> , 2020 , 20, 167	4.1	6
141	Age-Related Differences in Muscle Synergy Organization during Step Ascent at Different Heights and Directions. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 1987	2.6	6
140	Changes in proprioceptive weighting during quiet standing in women with early and established knee osteoarthritis compared to healthy controls. <i>Gait and Posture</i> , 2016 , 44, 184-8	2.6	6
139	Trunk stabilization estimated using pseudorandom force perturbations, a reliability study. <i>Journal of Biomechanics</i> , 2016 , 49, 244-51	2.9	6
138	The assessment of single-leg drop jump landing performance by means of ground reaction forces: A methodological study. <i>Gait and Posture</i> , 2019 , 73, 80-85	2.6	6
137	Anterior shear strength of the porcine lumbar spine after laminectomy and partial facetectomy. <i>European Spine Journal</i> , 2010 , 19, 2130-6	2.7	6

136	The effects of shoulder load and pinch force on electromyographic activity and blood flow in the forearm during a pinch task. <i>Ergonomics</i> , 2006 , 49, 1627-38	2.9	6
135	Scaling of lifting forces in relation to object size in whole body lifting. <i>Ergonomics</i> , 2005 , 48, 1020-30	2.9	6
134	Effects of unexpected lateral mass placement on trunk loading in lifting. <i>Spine</i> , 2003 , 28, 764-70	3.3	6
133	Do Older Adults Select Appropriate Motor Strategies in a Stepping-Down Paradigm?. <i>Frontiers in Physiology</i> , 2018 , 9, 1419	4.6	6
132	Does a Perturbation-Based Gait Intervention Enhance Gait Stability in Fall-Prone Stroke Survivors? A Pilot Study. <i>Journal of Applied Biomechanics</i> , 2019 , 35, 173-181	1.2	5
131	Lumbar compression forces while lifting and carrying with two and four workers. <i>Applied Ergonomics</i> , 2015 , 50, 56-61	4.2	5
130	Alterations in trunk bending stiffness following changes in stability and equilibrium demands of a load holding task. <i>Journal of Biomechanics</i> , 2018 , 77, 163-170	2.9	5
129	Effect of horizontal pick and place locations on shoulder kinematics. <i>Ergonomics</i> , 2015 , 58, 195-207	2.9	5
128	Does team lifting increase the variability in peak lumbar compression in ironworkers?. <i>Work</i> , 2012 , 41 Suppl 1, 4171-3	1.6	5
127	Work-site musculoskeletal pain risk estimates by trained observers--a prospective cohort study. <i>Ergonomics</i> , 2012 , 55, 1373-81	2.9	5
126	Muscular load characterization during isometric shoulder abductions with varying force. <i>Journal of Electromyography and Kinesiology</i> , 2008 , 18, 695-703	2.5	5
125	Mechanical Perturbations of the Walking Surface Reveal Unaltered Axial Trunk Stiffness in Chronic Low Back Pain Patients. <i>PLoS ONE</i> , 2016 , 11, e0157253	3.7	5
124	Bench stepping with incremental heights improves muscle volume, strength and functional performance in older women. <i>Experimental Gerontology</i> , 2019 , 120, 6-14	4.5	5
123	Patients With Spinal Muscular Atrophy Use High Percentages of Trunk Muscle Capacity to Perform Seated Tasks. <i>American Journal of Physical Medicine and Rehabilitation</i> , 2019 , 98, 1110-1117	2.6	5
122	Individual optimal step frequency during outdoor running. <i>European Journal of Sport Science</i> , 2020 , 20, 182-190	3.9	5
121	Coordination of Axial Trunk Rotations During Gait in Low Back Pain. A Narrative Review. <i>Journal of Human Kinetics</i> , 2021 , 76, 35-50	2.6	5
120	Balance Control in Older Adults 2017 , 237-262		4
119	A comparison of methods to quantify control of the spine. <i>Journal of Biomechanics</i> , 2019 , 96, 109344	2.9	4

118	Dual vs. Single Tasking During Circular Walking: What Better Reflects Progression in Parkinson's Disease?. <i>Frontiers in Neurology</i> , 2019 , 10, 372	4.1	4
117	Axial Thorax-Pelvis Coordination During Gait is not Predictive of Apparent Trunk Stiffness. <i>Scientific Reports</i> , 2019 , 9, 1066	4.9	4
116	Predicting Forearm Physical Exposures During Computer Work Using Self-Reports, Software-Recorded Computer Usage Patterns, and Anthropometric and Workstation Measurements. <i>Annals of Work Exposures and Health</i> , 2017 , 62, 124-137	2.4	4
115	Effects of intervertebral disc lesion and multifidus muscle resection on the structure of the lumbar intervertebral discs and paraspinal musculature of the rat. <i>Journal of Biomechanics</i> , 2018 , 70, 228-234	2.9	4
114	Structural health monitoring (vibration) as a tool for identifying structural alterations of the lumbar spine: a twin control study. <i>Scientific Reports</i> , 2016 , 6, 22974	4.9	4
113	Response to Letter to the Editor: On "Comparison of a laboratory grade force platform with a Nintendo Wii Balance Board on measurement of postural control in single-leg stance balance tasks" by Huurnink, A., et al. [J. Biomech. 46 (2013) 1392-1395]: Are the conclusions stated by the authors justified? <i>Journal of Biomechanics</i> , 2014 , 47, 710-2	2.9	4
112	Effect of bed height and use of hands on trunk angular velocity during the sit-to-stand transfer. <i>Ergonomics</i> , 2014 , 57, 1536-40	2.9	4
111	Which factors prognosticate rotational instability following lumbar laminectomy?. <i>European Spine Journal</i> , 2013 , 22, 2897-903	2.7	4
110	Bias and power in group-based epidemiologic studies of low-back pain exposure and outcome--effects of study size and exposure measurement efforts. <i>Annals of Occupational Hygiene</i> , 2015 , 59, 439-54		4
109	The predictive validity of the RSI QuickScan questionnaire with respect to arm, shoulder and neck symptoms in computer workers. <i>Ergonomics</i> , 2012 , 55, 1559-70	2.9	4
108	Effect of the number of two-wheeled containers at a gathering point on the energetic workload and work efficiency in refuse collecting. <i>Applied Ergonomics</i> , 2002 , 33, 571-7	4.2	4
107	Reporting net moments about the lumbar spine [letter]. <i>Clinical Biomechanics</i> , 2001 , 16, 348-50	2.2	4
106	Application of the maximum energy criterion to describe the strength of the motion segment under axial compression. <i>Spine</i> , 1995 , 20, 518-25	3.3	4
105	HEALTH RISKS CONCERNING THE LOW BACK IN AGRICULTURAL WORK. <i>Acta Horticulturae</i> , 1991 , 267-281	3	4
104	The effect of the presence and characteristics of an outlying group on exposure-outcome associations. <i>Scandinavian Journal of Work, Environment and Health</i> , 2015 , 41, 65-74	4.3	4
103	Evaluation of an acceleration-based assistive strategy to control a back-support exoskeleton for manual material handling. <i>Wearable Technologies</i> , 2020 , 1,	4	4
102	The Effect of Preparatory Posture on Goalkeeper's Diving Save Performance in Football. <i>Frontiers in Sports and Active Living</i> , 2019 , 1, 15	2.3	4
101	Consensus for experimental design in electromyography (CEDE) project: High-density surface electromyography matrix.. <i>Journal of Electromyography and Kinesiology</i> , 2022 , 64, 102656	2.5	4

100	Evidence of adaptations of locomotor neural drive in response to enhanced intermuscular connectivity between the triceps surae muscles of the rat. <i>Journal of Neurophysiology</i> , 2017 , 118, 1677-1689	3.3	3
99	Virtual obstacle crossing: Reliability and differences in stroke survivors who prospectively experienced falls or no falls. <i>Gait and Posture</i> , 2017 , 58, 533-538	2.6	3
98	Axial pelvis range of motion affects thorax-pelvis timing during gait. <i>Journal of Biomechanics</i> , 2019 , 95, 109308	2.9	3
97	Validity and Reliability of a Novel Integrative Motor Performance Testing Course for Seniors: The "Agility Challenge for the Elderly (ACE)". <i>Frontiers in Physiology</i> , 2019 , 10, 44	4.6	3
96	Reliability of recurrence quantification analysis of postural sway data. A comparison of two methods to determine recurrence thresholds. <i>Journal of Biomechanics</i> , 2020 , 107, 109793	2.9	3
95	Biomechanical and neuromuscular adaptations during the landing phase of a stepping-down task in patients with early or established knee osteoarthritis. <i>Knee</i> , 2016 , 23, 367-75	2.6	3
94	Predicting the influence of hip and lumbar flexibility on lifting motions using optimal control. <i>Journal of Biomechanics</i> , 2018 , 78, 118-125	2.9	3
93	Concurrent validity of questions on arm, shoulder and neck symptoms of the RSI QuickScan. <i>International Archives of Occupational and Environmental Health</i> , 2013 , 86, 789-98	3.2	3
92	Spine function and low back pain 2013 , 41-57		3
91	The evaluation of team lifting on physical work demands and workload in ironworkers. <i>Work</i> , 2012 , 41 Suppl 1, 3771-3	1.6	3
90	Identification of high-risk fallers by force capacity measures in the elderly. <i>Journal of Biomechanics</i> , 2006 , 39, S87	2.9	3
89	A Review of Biomechanical Studies on Stoop and Squat Lifting. <i>Proceedings of the Human Factors and Ergonomics Society</i> , 2000 , 44, 643-646	0.4	3
88	Accuracy of Estimates of Step Frequency From a Wearable Gait Monitor. <i>Journal of Mobile Technology in Medicine</i> , 2015 , 4, 2-7	6	3
87	Fear of movement is not associated with trunk movement variability during gait in patients with low back pain. <i>Spine Journal</i> , 2020 , 20, 1986-1994	4	3
86	A novel passive neck orthosis for patients with degenerative muscle diseases: Development & evaluation. <i>Journal of Electromyography and Kinesiology</i> , 2021 , 57, 102515	2.5	3
85	Low back pain: Moving toward mechanism-based management. <i>Clinical Biomechanics</i> , 2019 , 61, 190-191	2.2	3
84	Consistency and test-retest reliability of stepping tests designed to measure self-perceived and actual physical stepping ability in older adults. <i>Aging Clinical and Experimental Research</i> , 2019 , 31, 1765-1773	4.8	2
83	Differences in Maximum Voluntary Excitation Between Isometric and Dynamic Contractions are Age-Dependent. <i>Journal of Applied Biomechanics</i> , 2019 , 35, 196-201	1.2	2

82	Construct validity and reliability of the modified gait efficacy scale for older adults. <i>Disability and Rehabilitation</i> , 2020 , 1-6	2.4	2
81	An adaptive, real-time cadence algorithm for unconstrained sensor placement. <i>Medical Engineering and Physics</i> , 2018 , 52, 49-58	2.4	2
80	Introduction: convergence and divergence of opinions on spinal control 2013 , 1-4		2
79	Kinetic and kinematic characteristics of stair negotiation in patients with medial knee osteoarthritis. <i>Osteoarthritis and Cartilage</i> , 2013 , 21, S257	6.2	2
78	Submovement organization, pen pressure, and muscle activity are modulated to precision demands in 2D tracking. <i>Journal of Motor Behavior</i> , 2012 , 44, 379-88	1.4	2
77	Developing a framework for assessing muscle effort and postures during computer work in the field: the effect of computer activities on neck/shoulder muscle effort and postures. <i>Work</i> , 2012 , 41 Suppl 1, 2377-80	1.6	2
76	Is the trunk movement more perturbed after an asymmetric than after a symmetric perturbation during lifting?. <i>Journal of Biomechanics</i> , 2004 , 37, 1071-7	2.9	2
75	Back Compressive and Shear Forces during Cart Pushing and Pulling. <i>Proceedings of the Human Factors and Ergonomics Society</i> , 2000 , 44, 647-650	0.4	2
74	The Importance of Antagonistic Cocontraction of Trunk Muscles for Spinal Loads during Lifting and Pulling Tasks: Implications for Modeling Approaches. <i>Proceedings of the Human Factors and Ergonomics Society</i> , 2000 , 44, 617-619	0.4	2
73	ERGOLOC, A METHOD TO ESTABLISH LOADS ON THE LOCOMOTOR SYSTEM AT WORK. <i>Acta Horticulturae</i> , 1989 , 113-122	0.3	2
72	Reliability of IMU-Based Gait Assessment in Clinical Stroke Rehabilitation.. <i>Sensors</i> , 2022 , 22,	3.8	2
71	Ankle muscles drive mediolateral center of pressure control to ensure stable steady state gait. <i>Scientific Reports</i> , 2021 , 11, 21481	4.9	2
70	Is standing sway an accurate measure of fall risk and predictor of future falls in older adults?. <i>Brazilian Journal of Motor Behavior</i> , 2020 , 14, 1-3	1.2	2
69	Head orientation and gait stability in young adults, dancers and older adults. <i>Gait and Posture</i> , 2020 , 80, 68-73	2.6	2
68	Real-time feedback to reduce low-back load in lifting and lowering. <i>Journal of Biomechanics</i> , 2020 , 102, 109513	2.9	2
67	Effects of age and sex on trunk motor control. <i>Journal of Biomechanics</i> , 2020 , 102, 109607	2.9	2
66	The effect of foot type, body length and mass on postural stability. <i>Gait and Posture</i> , 2020 , 81, 241-246	2.6	2
65	The influence of postural threat on strategy selection in a stepping-down paradigm. <i>Scientific Reports</i> , 2020 , 10, 10815	4.9	2

64	Reliability of measures to characterize lumbar movement patterns, in repeated seated reaching, in a mixed group of participants with and without low-back pain: A test-retest, within- and between session. <i>Journal of Biomechanics</i> , 2021 , 121, 110435	2.9	2
63	Age-Matched Z-Scores for Longitudinal Monitoring of Center of Pressure Speed in Single-Leg Stance Performance in Elite Male Youth Soccer Players. <i>Journal of Strength and Conditioning Research</i> , 2020 , 34, 495-505	3.2	2
62	Angular Velocity, Moment, and Power Analysis of the Ankle, Knee, and Hip Joints in the Goalkeeper's Diving Save in Football. <i>Frontiers in Sports and Active Living</i> , 2020 , 2, 13	2.3	2
61	Detailed assessment of low-back loads may not be worth the effort: A comparison of two methods for exposure-outcome assessment of low-back pain. <i>Applied Ergonomics</i> , 2015 , 51, 322-30	4.2	1
60	Selecting the appropriate input variables in a regression approach to estimate actively generated muscle moments around L5/S1 for exoskeleton control. <i>Journal of Biomechanics</i> , 2020 , 102, 109650	2.9	1
59	"Movement of the sacroiliac joint during the active straight leg raise test in patients with long-lasting severe sacroiliac joint pain"-A letter to the editor. <i>Clinical Biomechanics</i> , 2018 , 52, 100-101	2.2	1
58	Neck postural stabilization, motion comfort, and impact simulation 2019 , 243-260		1
57	Motor control changes and low back pain: cause or effect? 2013 , 207-217		1
56	Ground reaction forces during walking with different load and slope combinations in rats. <i>Journal of Experimental Orthopaedics</i> , 2017 , 4, 28	2.3	1
55	Finite element aided tracking of signal intensity changes in deforming intervertebral disc tissue. <i>Magnetic Resonance Imaging</i> , 1998 , 16, 77-82	3.3	1
54	. <i>Spine</i> , 2003 , 28, 764-770	3.3	1
53	Effect of Center of Mass and Handle Location of Two-Wheeled Refuse Containers on Mechanical Loading. <i>Proceedings of the Human Factors and Ergonomics Society</i> , 2000 , 44, 639-642	0.4	1
52	Stride Lengths during Maximal Linear Sprint Acceleration Obtained with Foot-Mounted Inertial Measurement Units.. <i>Sensors</i> , 2022 , 22,	3.8	1
51	Can foot placement during gait be trained? Adaptations in stability control when ankle moments are constrained.. <i>Journal of Biomechanics</i> , 2022 , 134, 110990	2.9	1
50	Effects of an Inclination-Controlled Active Spinal Exoskeleton on Spinal Compression Forces. <i>Biosystems and Biorobotics</i> , 2019 , 505-509	0.2	1
49	The underlying mechanisms of improved balance after one and ten sessions of balance training in older adults		1
48	Work-Related Low Back Pain 2009 ,		1
47	Between-day reliability of IMU-derived spine control metrics in patients with low back pain. <i>Journal of Biomechanics</i> , 2020 , 113, 110080	2.9	1

46	Balance training improves feedback control of perturbed balance in older adults		1
45	Reliability of a novel dynamic test of postural stability in high-level soccer players. <i>Heliyon</i> , 2021 , 7, e06647	3.7	1
44	Patients'perceived walking abilities, daily-life gait behavior and gait quality before and 3 months after total knee arthroplasty. <i>Archives of Orthopaedic and Trauma Surgery</i> , 2021 , 1	3.6	1
43	September 2019 Letter to the Editor-in-Chief. <i>Journal of Orthopaedic and Sports Physical Therapy</i> , 2019 , 49, 679-681	4.2	1
42	Does misjudgement in a stepping down paradigm predict falls in an older population?. <i>Royal Society Open Science</i> , 2019 , 6, 190786	3.3	1
41	The validation of new phase-dependent gait stability measures: a modelling approach. <i>Royal Society Open Science</i> , 2021 , 8, 201122	3.3	1
40	Development of a Balance Recovery Performance Measure for Gait Perturbation Training Based on the Center of Pressure. <i>Frontiers in Sports and Active Living</i> , 2021 , 3, 617430	2.3	1
39	Stabilization demands of walking modulate the vestibular contributions to gait. <i>Scientific Reports</i> , 2021 , 11, 13736	4.9	1
38	Left/right discrimination is not impaired in people with unilateral chronic Achilles tendinopathy. <i>Musculoskeletal Science and Practice</i> , 2021 , 54, 102388	2.4	1
37	The effect of cryotherapy on postural stabilization assessed by standardized horizontal perturbations of a movable platform.. <i>Gait and Posture</i> , 2022 , 94, 32-38	2.6	1
36	Identification of intrinsic and reflexive contributions to trunk stabilization in patients with low back pain: a case-control study. <i>European Spine Journal</i> , 2020 , 29, 1900-1908	2.7	0
35	Effects of pushing height on trunk posture and trunk muscle activity when a cart suddenly starts or stops moving. <i>Work</i> , 2012 , 41 Suppl 1, 3189-95	1.6	0
34	Effects of age and surface instability on the control of the center of mass.. <i>Human Movement Science</i> , 2022 , 82, 102930	2.4	0
33	The underlying mechanisms of improved balance after one and ten sessions of balance training in older adults. <i>Human Movement Science</i> , 2021 , 81, 102910	2.4	0
32	Strong relationship of muscle force and fall efficacy, but not of gait kinematics, with number of falls in the year after Total Hip Arthroplasty for osteoarthritis: An exploratory study.. <i>Clinical Biomechanics</i> , 2021 , 92, 105551	2.2	0
31	Associations of low-back pain and pain-related cognitions with lumbar movement patterns during repetitive seated reaching. <i>Gait and Posture</i> , 2021 , 91, 216-222	2.6	0
30	Using deep learning to track 3D kinematics. <i>Gait and Posture</i> , 2020 , 81, 369-370	2.6	0
29	Estimation of Metabolic Energy Expenditure during Short Walking Bouts. <i>International Journal of Sports Medicine</i> , 2021 , 42, 1098-1104	3.6	0

28	The short- and long-term temporal relation between falls and concern about falling in older adults without a recent history of falling. <i>PLoS ONE</i> , 2021 , 16, e0253374	3.7	○
27	Concurrent validity of an easy-to-use inertial measurement unit-system to evaluate sagittal plane segment kinematics during overground sprinting at different speeds.. <i>Sports Biomechanics</i> , 2022 , 1-14	2.2	○
26	The effect of constraining mediolateral ankle moments and foot placement on the use of the counter-rotation mechanism during walking.. <i>Journal of Biomechanics</i> , 2022 , 136, 111073	2.9	○
25	Assessing age-related balance deterioration: Visual or mechanical tasks?. <i>Clinical Biomechanics</i> , 2019 , 65, 116-122	2.2	
24	AuthorsPRReply to Wang: "On Magnetic Resonance Imaging of Intervertebral Disc Ageing". <i>Sports Medicine</i> , 2017 , 47, 189-191	10.6	
23	THU0608-HPR Nonlinearity and Relevant Thresholds in the Relationship Between Muscle Strength and Activity Limitations in Patients with Knee Osteoarthritis: Results of the AMS-OA Cohort. <i>Annals of the Rheumatic Diseases</i> , 2015 , 74, 1311.3-1312	2.4	
22	Physical Ergonomics 2015 , 1-20		
21	Preventie van lage rugklachten: alleen urenbeperking lijkt onvoldoende. <i>Tijdschrift Voor Bedrijfs- En Verzekeringsgeneeskunde</i> , 2011 , 19, 478-479		○
20	The effects of psychosocial factors on trapezius muscle activity levels during computer use. <i>Proceedings of the Human Factors and Ergonomics Society</i> , 2012 , 56, 1123-1127		○.4
19	EFFECT OF A LIFTING BELT ON SPINE COMPRESSION DURING LIFTING. <i>Journal of Biomechanics</i> , 2007 , 40, S32		2.9
18	Physical Ergonomics 2006 , 762-781		
17	Effect of the Number of Two-Wheeled Containers at a Gathering Point on Energetic Workload and Work Efficiency. <i>Proceedings of the Human Factors and Ergonomics Society</i> , 2000 , 44, 283-283		○.4
16	2D Analysis of 3D Lifting: How Far can we Go?. <i>Proceedings of the Human Factors and Ergonomics Society</i> , 2000 , 44, 601-604		○.4
15	Assessing Physical Activity in Older Adults: Required Days of Trunk Accelerometer Measurements for Reliable Estimation. <i>Journal of Aging and Physical Activity</i> , 2015 , 23, 9-17		1.6
14	Lifting styles in elderly subjects. <i>Spine</i> , 2002 , 27, 330-1		3.3
13	Balanscontrole bij veroudering 2017 , 69-101		
12	Determinants of pain and activity limitations in foot osteoarthritis: An exploratory cross-sectional study in the Amsterdam-foot cohort. <i>Osteoarthritis and Cartilage Open</i> , 2021 , 3, 100134		1.5
11	Can HDEMG-Based Low Back Muscle Fatigue Estimates Be Used in Exoskeleton Control During Prolonged Trunk Bending? A Pilot Study. <i>Biosystems and Biorobotics</i> , 2022 , 183-187		○.2

10	Biomechanical Evaluation of the Effect of Three Trunk Support Exoskeletons on Spine Loading During Lifting. <i>Biosystems and Biorobotics</i> , 2022 , 177-181	0.2
9	Limitation of Ankle Mobility Challenges Gait Stability While Walking on Lateral Inclines. <i>Biosystems and Biorobotics</i> , 2022 , 621-625	0.2
8	Calibrating an EMG-Driven Muscle Model and a Regression Model to Estimate Moments Generated Actively by Back Muscles for Controlling an Actuated Exoskeleton with Limited Data. <i>Biosystems and Biorobotics</i> , 2022 , 401-405	0.2
7	The relationship between relative aerobic load, energy cost, and speed of walking in individuals post-stroke. <i>Gait and Posture</i> , 2021 , 89, 193-199	2.6
6	The Effects of Intermittent Trunk Flexion With and Without Support on Sitting Balance in Young Adults.. <i>Frontiers in Human Neuroscience</i> , 2022 , 16, 868153	3.3
5	Active foot placement control ensures stable gait: Effect of constraints on foot placement and ankle moments 2020 , 15, e0242215	
4	Active foot placement control ensures stable gait: Effect of constraints on foot placement and ankle moments 2020 , 15, e0242215	
3	Active foot placement control ensures stable gait: Effect of constraints on foot placement and ankle moments 2020 , 15, e0242215	
2	Active foot placement control ensures stable gait: Effect of constraints on foot placement and ankle moments 2020 , 15, e0242215	
1	Balanscontrole bij veroudering 2022 , 161-195	