

Silvio Rene Lorenzetti

List of Publications by Year in descending order

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Version: 2024-02-01

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papers

2,214
citations

201674

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docs citations

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2226
citing authors

#	ARTICLE	IF	CITATIONS
1	Key performance indicators and leg positioning for the kick-start in competitive swimmers. <i>Sports Biomechanics</i> , 2023, 22, 752-766.	1.6	15
2	Body and mind? Exploring physiological and psychological factors to explain endurance performance in cycling. <i>European Journal of Sport Science</i> , 2023, 23, 101-108.	2.7	4
3	Chest Exercises: Movement and Loading of Shoulder, Elbow and Wrist Joints. <i>Sports</i> , 2022, 10, 19.	1.7	3
4	Validation of a Smartwatch-Based Workout Analysis Application in Exercise Recognition, Repetition Count and Prediction of 1RM in the Strength Training-Specific Setting. <i>Sports</i> , 2021, 9, 118.	1.7	3
5	Energy Transformation on Vault in Elite Artistic Gymnastics: Comparisons between Simple and Difficult Tsukahara and Yurchenko Vaults. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 9484.	2.5	5
6	Influence of technique on upper body force and power production during medicine ball throws. <i>Journal of Sports Sciences</i> , 2020, 38, 470-475.	2.0	3
7	The "Journal of Functional Morphology and Kinesiology" Journal Club Series: Highlights on Recent Papers in Corrective Exercise. <i>Journal of Functional Morphology and Kinesiology</i> , 2020, 5, 74.	2.4	2
8	The effect of increasing heel height on lower limb symmetry during the back squat in trained and novice lifters. <i>BMC Sports Science, Medicine and Rehabilitation</i> , 2020, 12, 42.	1.7	2
9	Giant Slalom: Analysis of Course Setting, Steepness and Performance of Different Age Groups " A Pilot Study. <i>Frontiers in Sports and Active Living</i> , 2020, 2, 107.	1.8	3
10	The effect of elevating the heels on spinal kinematics and kinetics during the back squat in trained and novice weight trainers. <i>Journal of Sports Sciences</i> , 2020, 38, 1000-1008.	2.0	11
11	Dynamic knee valgus in competitive alpine skiers: Observation from youth to elite and influence of biological maturation. <i>Scandinavian Journal of Medicine and Science in Sports</i> , 2020, 30, 1212-1220.	2.9	14
12	The "Journal of Functional Morphology and Kinesiology" Journal Club Series: Resistance Training. <i>Journal of Functional Morphology and Kinesiology</i> , 2020, 5, 25.	2.4	0
13	Host Mesh Fitting of a Generic Musculoskeletal Model of the Lower Limbs to Subject-Specific Body Surface Data: A Validation Study. <i>Applied Bionics and Biomechanics</i> , 2019, 2019, 1-8.	1.1	3
14	What are the biomechanical consequences of a structural leg length discrepancy on the adolescent spine during walking?. <i>Gait and Posture</i> , 2019, 68, 506-513.	1.4	22
15	Sling-based infant carrying affects lumbar and thoracic spine neuromechanics during standing and walking. <i>Gait and Posture</i> , 2019, 67, 172-180.	1.4	8
16	Conditioning exercises in ski jumping: biomechanical relationship of squat jumps, imitation jumps, and hill jumps. <i>Sports Biomechanics</i> , 2019, 18, 63-74.	1.6	6
17	The "Journal of Functional Morphology and Kinesiology" Journal Club Series: Highlights on Recent Papers in Athletic Training. <i>Journal of Functional Morphology and Kinesiology</i> , 2018, 3, 49.	2.4	1
18	Comparison of the kinematics and kinetics of shoulder exercises performed with constant and elastic resistance. <i>BMC Sports Science, Medicine and Rehabilitation</i> , 2018, 10, 22.	1.7	3

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19	Evaluation of the accuracy of musculoskeletal simulation during squats by means of instrumented knee prostheses. <i>Medical Engineering and Physics</i> , 2018, 61, 95-99.	1.7	22
20	Towards Subject-Specific Strength Training Design through Predictive Use of Musculoskeletal Models. <i>Applied Bionics and Biomechanics</i> , 2018, 2018, 1-10.	1.1	7
21	The Influence of Backpack Weight and Hip Belt Tension on Movement and Loading in the Pelvis and Lower Limbs during Walking. <i>Applied Bionics and Biomechanics</i> , 2018, 2018, 1-7.	1.1	5
22	Restrictions in the Ankle Sagittal- and Frontal-Plane Range of Movement during Simulated Walking with Different Types of Orthoses. <i>Journal of Functional Morphology and Kinesiology</i> , 2018, 3, 21.	2.4	2
23	The impact of test loads on the accuracy of 1RM prediction using the load-velocity relationship. <i>BMC Sports Science, Medicine and Rehabilitation</i> , 2018, 10, 9.	1.7	11
24	How to squat? Effects of various stance widths, foot placement angles and level of experience on knee, hip and trunk motion and loading. <i>BMC Sports Science, Medicine and Rehabilitation</i> , 2018, 10, 14.	1.7	47
25	Performance determinants and leg kinematics in the BMX supercross start. <i>Journal of Science and Cycling</i> , 2018, 6, 3-12.	0.2	8
26	Robustness of kinematic weighting and scaling concepts for musculoskeletal simulation. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2017, 20, 720-729.	1.6	6
27	Spinal kinematics during gait in healthy individuals across different age groups. <i>Human Movement Science</i> , 2017, 54, 73-81.	1.4	39
28	Traditional balance and slackline training are associated with task-specific adaptations as assessed with sensorimotor tests. <i>European Journal of Sport Science</i> , 2017, 17, 838-846.	2.7	15
29	Loading conditions in the spine, hip and knee during different executions of back extension exercises. <i>BMC Sports Science, Medicine and Rehabilitation</i> , 2017, 9, 10.	1.7	9
30	High-heeled walking decreases lumbar lordosis. <i>Gait and Posture</i> , 2017, 55, 12-14.	1.4	17
31	Risk Factors for Knee Injury in Golf: A Systematic Review. <i>Sports Medicine</i> , 2017, 47, 2621-2639.	6.5	17
32	In-situ force plate calibration: 12 years' experience with an approach for correcting the point of force application. <i>Gait and Posture</i> , 2017, 58, 98-102.	1.4	3
33	Loading of the lumbar spine during backpack carriage. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2017, 20, 558-565.	1.6	3
34	Validity and reliability of simple measurement device to assess the velocity of the barbell during squats. <i>BMC Research Notes</i> , 2017, 10, 707.	1.4	36
35	An Inertial Sensor-Based Method for Estimating the Athlete's Relative Joint Center Positions and Center of Mass Kinematics in Alpine Ski Racing. <i>Frontiers in Physiology</i> , 2017, 8, 850.	2.8	39
36	Pulling Exercises for Strength Training and Rehabilitation: Movements and Loading Conditions. <i>Journal of Functional Morphology and Kinesiology</i> , 2017, 2, 33.	2.4	1

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37	Validation of functional calibration and strap-down joint drift correction for computing 3D joint angles of knee, hip, and trunk in alpine skiing. PLoS ONE, 2017, 12, e0181446.	2.5	48
38	Towards evidence based strength training: a comparison of muscle forces during deadlifts, goodmornings and split squats. BMC Sports Science, Medicine and Rehabilitation, 2017, 9, 13.	1.7	14
39	The "Journal of Functional Morphology and Kinesiology" Journal Club Series: Highlights on Recent Papers in Exercise and Nutrition for Health. Journal of Functional Morphology and Kinesiology, 2017, 2, 22.	2.4	0
40	Validation of an instrumented dummy to assess mechanical aspects of discomfort during load carriage. PLoS ONE, 2017, 12, e0180069.	2.5	6
41	The "Journal of Functional Morphology and Kinesiology" Journal Club Series: Highlights on Recent Papers in Gait and Posture. Journal of Functional Morphology and Kinesiology, 2016, 1, 369-372.	2.4	0
42	Application of Machine Learning Approaches for Classifying Sitting Posture Based on Force and Acceleration Sensors. BioMed Research International, 2016, 2016, 1-9.	1.9	56
43	The "Journal of Functional Morphology and Kinesiology" Journal Club Series: Highlights on Recent Papers in Joint Biomechanics of Running. Journal of Functional Morphology and Kinesiology, 2016, 1, 276-281.	2.4	0
44	Investigating physical fitness and race performance as determinants for the ACL injury risk in Alpine ski racing. BMC Sports Science, Medicine and Rehabilitation, 2016, 8, 23.	1.7	16
45	Occupational sitting behaviour and its relationship with back pain " A pilot study. Applied Ergonomics, 2016, 56, 84-91.	3.1	41
46	Orthotic correction of lower limb function during gait does not immediately influence spinal kinematics in spastic hemiplegic cerebral palsy. Gait and Posture, 2016, 49, 457-462.	1.4	14
47	Kinematics and Kinetics of Squats, Drop Jumps and Imitation Jumps of Ski Jumpers. Journal of Strength and Conditioning Research, 2016, 30, 643-652.	2.1	11
48	Quantifying spinal gait kinematics using an enhanced optical motion capture approach in adolescent idiopathic scoliosis. Gait and Posture, 2016, 44, 231-237.	1.4	51
49	Seat pan and backrest pressure distribution while sitting in office chairs. Applied Ergonomics, 2016, 53, 1-9.	3.1	47
50	A Fast Testing Method to Objectively Quantify the Stiffness of Stability Boots. Applied Bionics and Biomechanics, 2015, 2015, 1-6.	1.1	1
51	Prediction of Local Ultimate Strain and Toughness of Trabecular Bone Tissue by Raman Material Composition Analysis. BioMed Research International, 2015, 2015, 1-9.	1.9	12
52	Review of Modelling Techniques for <i>In Vivo</i> Muscle Force Estimation in the Lower Extremities during Strength Training. Computational and Mathematical Methods in Medicine, 2015, 2015, 1-12.	1.3	23
53	Non-invasive assessment of spinal kinematics during gait in patients with adolescent idiopathic scoliosis. Physiotherapy, 2015, 101, e1346.	0.4	1
54	Are pressure measurements effective in the assessment of office chair comfort/discomfort? A review. Applied Ergonomics, 2015, 48, 273-282.	3.1	70

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55	How reliable are pressure measurements with Tekscan sensors on the body surface of human subjects wearing load carriage systems?. International Journal of Industrial Ergonomics, 2015, 49, 60-67.	2.6	29
56	Using Skin Markers for Spinal Curvature Quantification in Main Thoracic Adolescent Idiopathic Scoliosis: An Explorative Radiographic Study. PLoS ONE, 2015, 10, e0135689.	2.5	51
57	Mechanical Predictors of Discomfort during Load Carriage. PLoS ONE, 2015, 10, e0142004.	2.5	15
58	Soft Tissue Artefacts of the Human Back: Comparison of the Sagittal Curvature of the Spine Measured Using Skin Markers and an Open Upright MRI. PLoS ONE, 2014, 9, e95426.	2.5	74
59	Joint Angles of the Ankle, Knee, and Hip and Loading Conditions During Split Squats. Journal of Applied Biomechanics, 2014, 30, 373-380.	0.8	20
60	The influence of a new sole geometry while running. Journal of Sports Sciences, 2014, 32, 1671-1679.	2.0	8
61	Within subject heterogeneity in tissue-level post-yield mechanical and material properties in human trabecular bone. Journal of the Mechanical Behavior of Biomedical Materials, 2013, 24, 64-73.	3.1	37
62	Kinetic and kinematic differences between deadlifts and goodmornings. The Sports Medicine, Arthroscopy, Rehabilitationrapy and Technology, 2013, 5, 27.	1.0	14
63	Towards patientâ€specific material modeling of trabecular boneâ€™s postâ€yield behavior. International Journal for Numerical Methods in Biomedical Engineering, 2013, 29, 250-272.	2.1	21
64	Novel method to analyze post-yield mechanical properties at trabecular bone tissue level. Journal of the Mechanical Behavior of Biomedical Materials, 2013, 20, 6-18.	3.1	36
65	Secondary gait deviations in patients with and without neurological involvement: A systematic review. Gait and Posture, 2013, 37, 480-493.	1.4	62
66	<i>In Vivo</i> Spinal Posture during Upright and Reclined Sitting in an Office Chair. BioMed Research International, 2013, 2013, 1-5.	1.9	18
67	Kinematics of the Trunk and the Lower Extremities During Restricted and Unrestricted Squats. Journal of Strength and Conditioning Research, 2013, 27, 1529-1538.	2.1	102
68	Balancing on a Slackline: 8-Year-Olds vs. Adults. Frontiers in Psychology, 2013, 4, 208.	2.1	15
69	Comparison of the Angles and Corresponding Moments in the Knee and Hip During Restricted and Unrestricted Squats. Journal of Strength and Conditioning Research, 2012, 26, 2829-2836.	2.1	55
70	The effect of a cognitive-motor intervention on voluntary step execution under single and dual task conditions in older adults: a randomized controlled pilot study. Clinical Interventions in Aging, 2012, 7, 175.	2.9	65
71	The Spinal Curvature of Three Different Sitting Positions Analysed in an Open MRI Scanner. Scientific World Journal, The, 2012, 2012, 1-7.	2.1	28
72	How well can skin marker analysis detect the kinematics of a total ankle arthroplasty? â€•a comparison to videofluoroscopy. Journal of Foot and Ankle Research, 2012, 5, .	1.9	0

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73	Day-to-day consistency of lower extremity kinematics during stair ambulation in 24-45 years old athletes. <i>Gait and Posture</i> , 2011, 33, 635-639.	1.4	4
74	A new device and method for measuring the elastic modulus of single trabeculae. <i>Medical Engineering and Physics</i> , 2011, 33, 993-1000.	1.7	13
75	Review of fixation techniques for the four-part fractured proximal humerus in hemiarthroplasty. <i>Journal of Orthopaedic Surgery and Research</i> , 2011, 6, 36.	2.3	19
76	Refixation stability in shoulder hemiarthroplasty in case of four-part proximal humeral fracture. <i>Medical and Biological Engineering and Computing</i> , 2009, 47, 515-522.	2.8	8
77	The Twannberg (Switzerland) IIG iron meteorites: Mineralogy, chemistry, and CRE ages. <i>Meteoritics and Planetary Science</i> , 2009, 44, 187-199.	1.6	15
78	The Jiddat al Harasis 073 strewn field, Sultanate of Oman. <i>Meteoritics and Planetary Science</i> , 2009, 44, 375-387.	1.6	28
79	ROLE OF COLLAGEN ON THE ELASTICITY OF SINGLE TRABECULAE. <i>Journal of Biomechanics</i> , 2008, 41, S374.	2.1	0
80	Comparison of cosmic-ray exposure ages and trapped noble gases in chondrule and matrix samples of ordinary, enstatite, and carbonaceous chondrites. <i>Meteoritics and Planetary Science</i> , 2007, 42, 1351-1371.	1.6	39
81	Noble gases in Dâ€™Orbigny, Sahara 99555 and Dâ€™Orbigny glassâ€™ Evidence for early planetary processing on the angrite parent body. <i>Geochimica Et Cosmochimica Acta</i> , 2006, 70, 5403-5425.	3.9	33
82	Regolith history of lunar meteorites. <i>Meteoritics and Planetary Science</i> , 2005, 40, 315-327.	1.6	40
83	Cosmic-ray exposure ages of four acapulcoites and two differentiated achondrites and evidence for a two-layer structure of the acapulcoite/lodranite parent asteroid. <i>Geochimica Et Cosmochimica Acta</i> , 2005, 69, 2675-2685.	3.9	18
84	Pinpointing the Source of a Lunar Meteorite: Implications for the Evolution of the Moon. <i>Science</i> , 2004, 305, 657-659.	12.6	140
85	Northwest Africa 773: Lunar origin and iron-enrichment trend. <i>Meteoritics and Planetary Science</i> , 2003, 38, 529-554.	1.6	67
86	Noble gases and mineralogy of meteorites from China and the Grove Mountains, Antarctica: A 0.05 Ma cosmic ray exposure age of GRV 98004. <i>Meteoritics and Planetary Science</i> , 2003, 38, 1243-1253.	1.6	4
87	History and origin of aubrites. <i>Geochimica Et Cosmochimica Acta</i> , 2003, 67, 557-571.	3.9	45
88	Formation of metal and silicate globules in Gujba: a new Bencubbin-like meteorite fall. <i>Geochimica Et Cosmochimica Acta</i> , 2003, 67, 3283-3298.	3.9	121
89	Northwest Africa 032: Product of lunar volcanism. <i>Meteoritics and Planetary Science</i> , 2002, 37, 371-394.	1.6	74
90	Ejection ages from kryptonâ€¸1â€¸kryptonâ€¸3 dating and pre-atmospheric sizes of martian meteorites. <i>Meteoritics and Planetary Science</i> , 2002, 37, 1345-1360.	1.6	88