

# Silvio Rene Lorenzetti

## List of Publications by Year in descending order

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Version: 2024-02-01

90  
papers

2,214  
citations

201674

27  
h-index

243625

44  
g-index

93  
all docs

93  
docs citations

93  
times ranked

2226  
citing authors

#	ARTICLE	IF	CITATIONS
1	Pinpointing the Source of a Lunar Meteorite: Implications for the Evolution of the Moon. <i>Science</i> , 2004, 305, 657-659.	12.6	140
2	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
3	Kinematics of the Trunk and the Lower Extremities During Restricted and Unrestricted Squats. <i>Journal of Strength and Conditioning Research</i> , 2013, 27, 1529-1538.	2.1	102
4	Ejection ages from krypton <sup>81</sup> dating and pre-atmospheric sizes of martian meteorites. <i>Meteoritics and Planetary Science</i> , 2002, 37, 1345-1360.	1.6	88
5	Northwest Africa 032: Product of lunar volcanism. <i>Meteoritics and Planetary Science</i> , 2002, 37, 371-394.	1.6	74
6	Soft Tissue Artefacts of the Human Back: Comparison of the Sagittal Curvature of the Spine Measured Using Skin Markers and an Open Upright MRI. <i>PLoS ONE</i> , 2014, 9, e95426.	2.5	74
7	Are pressure measurements effective in the assessment of office chair comfort/discomfort? A review. <i>Applied Ergonomics</i> , 2015, 48, 273-282.	3.1	70
8	Northwest Africa 773: Lunar origin and iron enrichment trend. <i>Meteoritics and Planetary Science</i> , 2003, 38, 529-554.	1.6	67
9	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. <i>Clinical Interventions in Aging</i> , 2012, 7, 175.	2.9	65
10	Secondary gait deviations in patients with and without neurological involvement: A systematic review. <i>Gait and Posture</i> , 2013, 37, 480-493.	1.4	62
11	Application of Machine Learning Approaches for Classifying Sitting Posture Based on Force and Acceleration Sensors. <i>BioMed Research International</i> , 2016, 2016, 1-9.	1.9	56
12	Comparison of the Angles and Corresponding Moments in the Knee and Hip During Restricted and Unrestricted Squats. <i>Journal of Strength and Conditioning Research</i> , 2012, 26, 2829-2836.	2.1	55
13	Quantifying spinal gait kinematics using an enhanced optical motion capture approach in adolescent idiopathic scoliosis. <i>Gait and Posture</i> , 2016, 44, 231-237.	1.4	51
14	Using Skin Markers for Spinal Curvature Quantification in Main Thoracic Adolescent Idiopathic Scoliosis: An Explorative Radiographic Study. <i>PLoS ONE</i> , 2015, 10, e0135689.	2.5	51
15	Validation of functional calibration and strap-down joint drift correction for computing 3D joint angles of knee, hip, and trunk in alpine skiing. <i>PLoS ONE</i> , 2017, 12, e0181446.	2.5	48
16	Seat pan and backrest pressure distribution while sitting in office chairs. <i>Applied Ergonomics</i> , 2016, 53, 1-9.	3.1	47
17	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
18	History and origin of aubrites. <i>Geochimica Et Cosmochimica Acta</i> , 2003, 67, 557-571.	3.9	45

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19	Occupational sitting behaviour and its relationship with back pain – A pilot study. <i>Applied Ergonomics</i> , 2016, 56, 84-91.	3.1	41
20	Regolith history of lunar meteorites. <i>Meteoritics and Planetary Science</i> , 2005, 40, 315-327.	1.6	40
21	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
22	Spinal kinematics during gait in healthy individuals across different age groups. <i>Human Movement Science</i> , 2017, 54, 73-81.	1.4	39
23	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
24	Within subject heterogeneity in tissue-level post-yield mechanical and material properties in human trabecular bone. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2013, 24, 64-73.	3.1	37
25	Novel method to analyze post-yield mechanical properties at trabecular bone tissue level. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2013, 20, 6-18.	3.1	36
26	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
27	Noble gases in Dâ€™Orbigny, Sahara 99555 and Dâ€™Orbigny glass – Evidence for early planetary processing on the angrite parent body. <i>Geochimica Et Cosmochimica Acta</i> , 2006, 70, 5403-5425.	3.9	33
28	How reliable are pressure measurements with Tekscan sensors on the body surface of human subjects wearing load carriage systems?. <i>International Journal of Industrial Ergonomics</i> , 2015, 49, 60-67.	2.6	29
29	The Jiddat al Harasis 073 strewn field, Sultanate of Oman. <i>Meteoritics and Planetary Science</i> , 2009, 44, 375-387.	1.6	28
30	The Spinal Curvature of Three Different Sitting Positions Analysed in an Open MRI Scanner. <i>Scientific World Journal</i> , The, 2012, 2012, 1-7.	2.1	28
31	Review of Modelling Techniques for <i>In Vivo</i> Muscle Force Estimation in the Lower Extremities during Strength Training. <i>Computational and Mathematical Methods in Medicine</i> , 2015, 2015, 1-12.	1.3	23
32	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
33	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
34	Towards patient-specific material modeling of trabecular bone – post-yield behavior. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2013, 29, 250-272.	2.1	21
35	Joint Angles of the Ankle, Knee, and Hip and Loading Conditions During Split Squats. <i>Journal of Applied Biomechanics</i> , 2014, 30, 373-380.	0.8	20
36	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

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37	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
38	<i>In Vivo</i> Spinal Posture during Upright and Reclined Sitting in an Office Chair. <i>BioMed Research International</i> , 2013, 2013, 1-5.	1.9	18
39	High-heeled walking decreases lumbar lordosis. <i>Gait and Posture</i> , 2017, 55, 12-14.	1.4	17
40	Risk Factors for Knee Injury in Golf: A Systematic Review. <i>Sports Medicine</i> , 2017, 47, 2621-2639.	6.5	17
41	Investigating physical fitness and race performance as determinants for the ACL injury risk in Alpine ski racing. <i>BMC Sports Science, Medicine and Rehabilitation</i> , 2016, 8, 23.	1.7	16
42	The Twannberg (Switzerland) IIG iron meteorites: Mineralogy, chemistry, and CRE ages. <i>Meteoritics and Planetary Science</i> , 2009, 44, 187-199.	1.6	15
43	Balancing on a Slackline: 8-Year-Olds vs. Adults. <i>Frontiers in Psychology</i> , 2013, 4, 208.	2.1	15
44	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
45	Key performance indicators and leg positioning for the kick-start in competitive swimmers. <i>Sports Biomechanics</i> , 2023, 22, 752-766.	1.6	15
46	Mechanical Predictors of Discomfort during Load Carriage. <i>PLoS ONE</i> , 2015, 10, e0142004.	2.5	15
47	Kinetic and kinematic differences between deadlifts and goodmornings. <i>The Sports Medicine, Arthroscopy, Rehabilitation and Technology</i> , 2013, 5, 27.	1.0	14
48	Orthotic correction of lower limb function during gait does not immediately influence spinal kinematics in spastic hemiplegic cerebral palsy. <i>Gait and Posture</i> , 2016, 49, 457-462.	1.4	14
49	Towards evidence based strength training: a comparison of muscle forces during deadlifts, goodmornings and split squats. <i>BMC Sports Science, Medicine and Rehabilitation</i> , 2017, 9, 13.	1.7	14
50	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
51	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
52	Prediction of Local Ultimate Strain and Toughness of Trabecular Bone Tissue by Raman Material Composition Analysis. <i>BioMed Research International</i> , 2015, 2015, 1-9.	1.9	12
53	Kinematics and Kinetics of Squats, Drop Jumps and Imitation Jumps of Ski Jumpers. <i>Journal of Strength and Conditioning Research</i> , 2016, 30, 643-652.	2.1	11
54	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

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55	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
56	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
57	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
58	The influence of a new sole geometry while running. <i>Journal of Sports Sciences</i> , 2014, 32, 1671-1679.	2.0	8
59	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
60	Performance determinants and leg kinematics in the BMX supercross start. <i>Journal of Science and Cycling</i> , 2018, 6, 3-12.	0.2	8
61	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
62	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
63	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
64	Validation of an instrumented dummy to assess mechanical aspects of discomfort during load carriage. <i>PLoS ONE</i> , 2017, 12, e0180069.	2.5	6
65	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
66	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
67	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
68	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
69	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
70	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
71	Loading of the lumbar spine during backpack carriage. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2017, 20, 558-565.	1.6	3
72	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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73	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
74	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
75	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
76	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
77	Chest Exercises: Movement and Loading of Shoulder, Elbow and Wrist Joints. <i>Sports</i> , 2022, 10, 19.	1.7	3
78	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
79	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
80	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
81	A Fast Testing Method to Objectively Quantify the Stiffness of Stability Boots. <i>Applied Bionics and Biomechanics</i> , 2015, 2015, 1-6.	1.1	1
82	Non-invasive assessment of spinal kinematics during gait in patients with adolescent idiopathic scoliosis. <i>Physiotherapy</i> , 2015, 101, e1346.	0.4	1
83	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
84	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
85	ROLE OF COLLAGEN ON THE ELASTICITY OF SINGLE TRABECULAE. <i>Journal of Biomechanics</i> , 2008, 41, S374.	2.1	0
86	How well can skin marker analysis detect the kinematics of a total ankle arthroplasty? –a comparison to videofluoroscopy. <i>Journal of Foot and Ankle Research</i> , 2012, 5, .	1.9	0
87	The –Journal of Functional Morphology and Kinesiology–Journal Club Series: Highlights on Recent Papers in Gait and Posture. <i>Journal of Functional Morphology and Kinesiology</i> , 2016, 1, 369-372.	2.4	0
88	The –Journal of Functional Morphology and Kinesiology–Journal Club Series: Highlights on Recent Papers in Joint Biomechanics of Running. <i>Journal of Functional Morphology and Kinesiology</i> , 2016, 1, 276-281.	2.4	0
89	The –Journal of Functional Morphology and Kinesiology–Journal Club Series: Highlights on Recent Papers in Exercise and Nutrition for Health. <i>Journal of Functional Morphology and Kinesiology</i> , 2017, 2, 22.	2.4	0
90	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