

Christian Maurer

List of Publications by Year in descending order

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Version: 2024-02-01

67
papers

2,785
citations

377584

21
h-index

198040

52
g-index

72
all docs

72
docs citations

72
times ranked

3029
citing authors

#	ARTICLE	IF	CITATIONS
1	Ergonomic Risk Assessment of Oral and Maxillofacial Surgeons â€“ RULA Applied to Objective Kinematic Data. <i>Human Factors</i> , 2023, 65, 1655-1673.	2.1	5
2	A RULA-Based Comparison of the Ergonomic Risk of Typical Working Procedures for Dentists and Dental Assistants of General Dentistry, Endodontology, Oral and Maxillofacial Surgery, and Orthodontics. <i>Sensors</i> , 2022, 22, 805.	2.1	14
3	Effect of a sports mouthguard on the functional range of motion of the spine and the upper body posture in taekwondo. <i>BMC Sports Science, Medicine and Rehabilitation</i> , 2021, 13, 5.	0.7	6
4	Symmetrical dental occlusion blocking â€“ changes of body sway and weight distribution in healthy subjects across 4 age decades. <i>Journal of Occupational Medicine and Toxicology</i> , 2021, 16, 7.	0.9	1
5	Influence of dental occlusion conditions on plantar pressure distribution during standing and walking â€“ A gender perspective. <i>Medical Engineering and Physics</i> , 2021, 88, 47-53.	0.8	4
6	The Environmental Effects of the April 2020 Wildfires and the Cs-137 Re-Suspension in the Chernobyl Exclusion Zone: A Multi-Hazard Threat. <i>Atmosphere</i> , 2021, 12, 467.	1.0	6
7	Influence of design of dentistâ€™s chairs on body posture for dentists with different working experience. <i>BMC Musculoskeletal Disorders</i> , 2021, 22, 462.	0.8	4
8	Combining Ergonomic Risk Assessment (RULA) with Inertial Motion Capture Technology in Dentistryâ€”Using the Benefits from Two Worlds. <i>Sensors</i> , 2021, 21, 4077.	2.1	20
9	Comparison of Joint Kinematics in Transition Running and Isolated Running in Elite Triathletes in Overground Conditions. <i>Sensors</i> , 2021, 21, 4869.	2.1	6
10	Ergonomic Risk Assessment of Dental Studentsâ€”RULA Applied to Objective Kinematic Data. <i>International Journal of Environmental Research and Public Health</i> , 2021, 18, 10550.	1.2	13
11	Ergonomic Comparison of Four Dental Workplace Concepts Using Inertial Motion Capture for Dentists and Dental Assistants. <i>International Journal of Environmental Research and Public Health</i> , 2021, 18, 10453.	1.2	7
12	Isolating the Unique and Generic Movement Characteristics of Highly Trained Runners. <i>Sensors</i> , 2021, 21, 7145.	2.1	2
13	Systematic changes of the static upper body posture with a symmetric occlusion condition. <i>BMC Musculoskeletal Disorders</i> , 2020, 21, 636.	0.8	3
14	SOPEZ: study for the optimization of ergonomics in the dental practice - musculoskeletal disorders in dentists and dental assistants: a study protocol. <i>Journal of Occupational Medicine and Toxicology</i> , 2020, 15, 22.	0.9	18
15	The Movement Profile of Habitual Vacuuming as a Cyclic Movementâ€”A Pilot Study. <i>International Journal of Environmental Research and Public Health</i> , 2020, 17, 8793.	1.2	3
16	The acute effect in performing common range of motion tests in healthy young adults: a prospective study. <i>Scientific Reports</i> , 2020, 10, 21722.	1.6	7
17	Intra- and inter-rater reliability of joint range of motion tests using tape measure, digital inclinometer and inertial motion capturing. <i>PLoS ONE</i> , 2020, 15, e0243646.	1.1	13
18	Title is missing!. , 2020, 15, e0243646.		0

#	ARTICLE	IF	CITATIONS
19	Title is missing!. , 2020, 15, e0243646.		0
20	Title is missing!. , 2020, 15, e0243646.		0
21	Title is missing!. , 2020, 15, e0243646.		0
22	Title is missing!. , 2020, 15, e0243646.		0
23	Title is missing!. , 2020, 15, e0243646.		0
24	Influence of ergonomic layout of musician chairs on posture and seat pressure in musicians of different playing levels. PLoS ONE, 2018, 13, e0208758.	1.1	5
25	Strength improvements through occlusal splints? The effects of different lower jaw positions on maximal isometric force production and performance in different jumping types. PLoS ONE, 2018, 13, e0193540.	1.1	22
26	Changes in cortical activity measured with EEG during a high-intensity cycling exercise. Journal of Neurophysiology, 2016, 115, 379-388.	0.9	56
27	Increased Vertical Impact Forces and Altered Running Mechanics with Softer Midsole Shoes. PLoS ONE, 2015, 10, e0125196.	1.1	80
28	Influence of the Lower Jaw Position on the Running Pattern. PLoS ONE, 2015, 10, e0135712.	1.1	32
29	Footwear Decreases Gait Asymmetry during Running. PLoS ONE, 2015, 10, e0138631.	1.1	21
30	Correlations and coherence of monopolar EMG-currents of the medial gastrocnemius muscle in proximal and distal compartments. Frontiers in Physiology, 2014, 5, 223.	1.3	9
31	Comparison of electromyographic signals from monopolar current and potential amplifiers derived from a penniform muscle, the gastrocnemius medialis. Journal of Electromyography and Kinesiology, 2013, 23, 1044-1051.	0.7	17
32	Human cutaneous sensors on the sole of the foot: Altered sensitivity and recovery time after whole body vibration. Neuroscience Letters, 2013, 533, 81-85.	1.0	20
33	Development of a symmetry index using discrete variables. Gait and Posture, 2013, 38, 115-119.	0.6	49
34	Speed-dependent variation in the Piper rhythm. Journal of Electromyography and Kinesiology, 2013, 23, 673-678.	0.7	19
35	Task-Oriented Control of Muscle Coordination during Cycling. Medicine and Science in Sports and Exercise, 2013, 45, 2298-2305.	0.2	18
36	Increased dynamic joint stiffness and peak vertical impact forces with softer shoe midsoles. Footwear Science, 2013, 5, S12-S13.	0.8	3

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37	Extraction of basic movement from whole-body movement, based on gait variability. <i>Physiological Reports</i> , 2013, 1, e00049.	0.7	9
38	The effect of midsole material on lower extremity kinematics: two approaches – one solution. <i>Footwear Science</i> , 2013, 5, S18-S19.	0.8	1
39	Measuring Lateral Shuffle and Side Cut Performance. <i>Journal of Strength and Conditioning Research</i> , 2013, 27, 3197-3203.	1.0	6
40	Subspace Identification and Classification of Healthy Human Gait. <i>PLoS ONE</i> , 2013, 8, e65063.	1.1	33
41	Assessment of lower body toning with quantitative variables. <i>Footwear Science</i> , 2012, 4, 159-166.	0.8	1
42	Enhancing of structures in coherence probe microscopy imaging. , 2012, , .		3
43	Shoe midsole hardness, sex and age effects on lower extremity kinematics during running. <i>Journal of Biomechanics</i> , 2012, 45, 1692-1697.	0.9	112
44	Discrimination of gender-, speed-, and shoe-dependent movement patterns in runners using full-body kinematics. <i>Gait and Posture</i> , 2012, 36, 40-45.	0.6	80
45	Contrast modification for ultra-high resolution low-coherence interference microscopy by Fourier-plane filtering. <i>Proceedings of SPIE</i> , 2011, , .	0.8	2
46	What spatial light modulators can do for optical microscopy. <i>Laser and Photonics Reviews</i> , 2011, 5, 81-101.	4.4	364
47	Depth of field multiplexing in microscopy. <i>Optics Express</i> , 2010, 18, 3023.	1.7	64
48	Quantitative SLM-based differential interference contrast imaging. <i>Optics Express</i> , 2010, 18, 14063.	1.7	49
49	Flexible contrast for low-coherence interference microscopy by Fourier-plane filtering with a spatial light modulator. <i>Optics Letters</i> , 2010, 35, 4154.	1.7	22
50	A double-SLM technique for designing arbitrary optical trapping patterns. , 2009, , .		0
51	Refining common path interferometry with a spiral phase Fourier filter. <i>Journal of Optics</i> , 2009, 11, 094023.	1.5	17
52	Differential interference contrast imaging using a spatial light modulator. <i>Optics Letters</i> , 2009, 34, 2988.	1.7	57
53	Optical tweezers of programmable shape with transverse scattering forces. <i>Optics Communications</i> , 2008, 281, 2207-2212.	1.0	9
54	Upgrading a microscope with a spiral phase plate. <i>Journal of Microscopy</i> , 2008, 230, 134-142.	0.8	42

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55	Suppression of undesired diffraction orders of binary phase holograms. <i>Applied Optics</i> , 2008, 47, 3994.	2.1	14
56	Near-perfect hologram reconstruction with a spatial light modulator. <i>Optics Express</i> , 2008, 16, 2597.	1.7	146
57	Full phase and amplitude control of holographic optical tweezers with high efficiency. <i>Optics Express</i> , 2008, 16, 4479.	1.7	125
58	Phase contrast microscopy with full numerical aperture illumination. <i>Optics Express</i> , 2008, 16, 19821.	1.7	56
59	Singular Optics for Novel Biomedical Tools. , 2007, , CME3.		0
60	Wavefront correction of spatial light modulators using an optical vortex image. <i>Optics Express</i> , 2007, 15, 5801.	1.7	178
61	Spiral Phase Microscopy. <i>Advances in Imaging and Electron Physics</i> , 2007, 146, 1-59e.	0.1	26
62	Tailoring of arbitrary optical vector beams. <i>New Journal of Physics</i> , 2007, 9, 78-78.	1.2	498
63	Reverse orbiting of microparticles in optical vortices. <i>Optics Letters</i> , 2006, 31, 2824.	1.7	19
64	Quantitative imaging of complex samples by spiral phase contrast microscopy. <i>Optics Express</i> , 2006, 14, 3792.	1.7	244
65	Holographic optical tweezers for object manipulations at an air-liquid surface. <i>Optics Express</i> , 2006, 14, 6342.	1.7	75
66	Holographic optical tweezers: manipulations at an air-liquid interface. , 2006, , .		0
67	A single-photon source based on a single Ca ⁺ ion. <i>New Journal of Physics</i> , 2004, 6, 94-94.	1.2	42