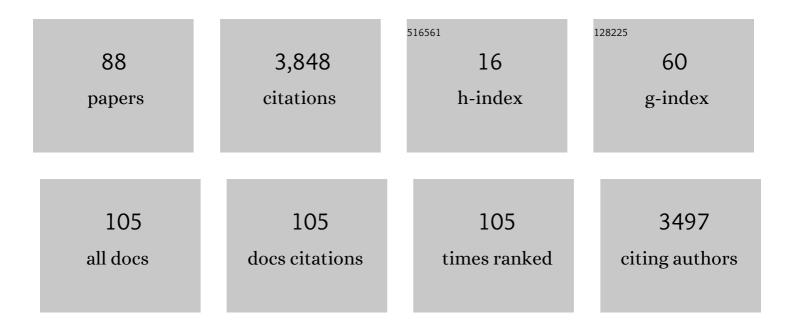
Hartmut F Witte

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/504944/publications.pdf Version: 2024-02-01



#	Article	IF	CITATIONS
1	ISB recommendation on definitions of joint coordinate system of various joints for the reporting of human joint motion—part I: ankle, hip, and spine. Journal of Biomechanics, 2002, 35, 543-548.	0.9	2,491
2	Basic limb kinematics of small therian mammals. Journal of Experimental Biology, 2002, 205, 1315-1338.	0.8	223
3	Basic limb kinematics of small therian mammals. Journal of Experimental Biology, 2002, 205, 1315-38.	0.8	164
4	Torque patterns of the limbs of small therian mammals during locomotion on flat ground. Journal of Experimental Biology, 2002, 205, 1339-1353.	0.8	83
5	Torque patterns of the limbs of small therian mammals during locomotion on flat ground. Journal of Experimental Biology, 2002, 205, 1339-53.	0.8	65
6	Comparing the effect of different spine and leg designs for a small bounding quadruped robot. , 2015, ,		60
7	Size Influences on Primate Locomotion and Body Shape, with Special Emphasis on the Locomotion of â€ ⁻ Small Mammals'. Folia Primatologica, 1996, 66, 93-112.	0.3	49
8	Structural Characterization of the Whisker System of the Rat. IEEE Sensors Journal, 2012, 12, 332-339.	2.4	47
9	Musculoskeletal support of lumbar spine stability. Pathophysiology, 2005, 12, 257-265.	1.0	46
10	A novel PDMS micro membrane biosensor based on the analysis of surface stress. Biosensors and Bioelectronics, 2010, 25, 2420-2424.	5.3	37
11	Biomimetic robotics should be based on functional morphology. Journal of Anatomy, 2004, 204, 331-342.	0.9	36
12	Anatomic guidelines for the prevention of abdominal wall hematoma induced by trocar placement. Surgical and Radiologic Anatomy, 1999, 21, 87-89.	0.6	32
13	A Calculation of the Forces Acting on the Human Acetabulum during Walking. Cells Tissues Organs, 1997, 160, 269-280.	1.3	24
14	Legs evolved only at the end!. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2007, 365, 185-198.	1.6	23
15	Transfer of biological principles into the construction of quadruped walking machines. , 0, , .		20
16	Exploring the shock response of spider webs. Journal of the Mechanical Behavior of Biomedical Materials, 2016, 56, 1-5.	1.5	20
17	Characterization of Statical Properties of Rat's Whisker System. IEEE Sensors Journal, 2012, 12, 340-349.	2.4	19
18	Retropatellar contact characteristics in total knee arthroplasty with and without patellar resurfacing. International Orthopaedics, 2000, 24, 191-193.	0.9	18

#	Article	IF	CITATIONS
19	Fabrication of a surface stress-based PDMS micro-membrane biosensor. Microsystem Technologies, 2010, 16, 1001-1008.	1.2	17
20	Influence of various types of damage on the fracture strength of ceramic femoral heads. Biomedizinische Technik, 2011, 56, 333-339.	0.9	16
21	The role of vibrissal sensing in forelimb position control during travelling locomotion in the rat (Rattus norvegicus, Rodentia). Zoology, 2015, 118, 51-62.	0.6	15
22	Interactions between Motions of the Trunk and the Angle of Attack of the Forelimbs in Synchronous Gaits of the Pika (Ochotona rufescens). , 2006, , 69-77.		15
23	LTCC based bioreactors for cell cultivation. IOP Conference Series: Materials Science and Engineering, 2016, 104, 012001.	0.3	14
24	Towards rich motion skills with the lightweight quadruped robot Serval. Adaptive Behavior, 2020, 28, 129-150.	1.1	13
25	Threeâ€dimensional imaging of the fibrous microstructure of Achilles tendon entheses in <i>Mus musculus</i> . Journal of Anatomy, 2018, 233, 370-380.	0.9	12
26	INSPIRAT – TOWARDS A BIOLOGICALLY INSPIRED CLIMBING ROBOT FOR THE INSPECTION OF LINEAR STRUCTURES. , 2008, , .		11
27	Is Elastic Energy Storage of Quantitative Relevance for the Functional Morphology of the Human Locomotor Apparatus?. Cells Tissues Organs, 1997, 158, 106-111.	1.3	10
28	Analysis of the vibrissa parametric resonance causing a signal amplification during whisking behaviour. Journal of Bionic Engineering, 2016, 13, 312-323.	2.7	10
29	Functionalized Thick Film Impedance Sensors for Use in In Vitro Cell Culture. Biosensors, 2018, 8, 37.	2.3	10
30	Der Einfluß von Kniegelenkbeugung und Femurrotation auf den retropatellaren Kontakt des menschlichen Kniegelenkes - Influence of Flexion of the Knee and Femoral Rotation on Retröpatellar Contact in Humans. Biomedizinische Technik, 1999, 44, 334-338.	0.9	9
31	Towards Rich Motion Skills with the Lightweight Quadruped Robot Serval - A Design, Control and Experimental Study. Lecture Notes in Computer Science, 2018, , 41-55.	1.0	9
32	Correspondence Letter. Journal of Biomechanics, 2003, 36, 303-304.	0.9	8
33	A modular robot climbing on pipe-like structures. , 2009, , .		8
34	Integration of 3-D cell cultures in fluidic microsystems for biological screenings. Engineering in Life Sciences, 2011, 11, 140-147.	2.0	8
35	A computational model for dynamic analysis of the human gait. Computer Methods in Biomechanics and Biomedical Engineering, 2015, 18, 799-804.	0.9	8
36	Epiduroskopie mit Zugang über den Sakralkanal - Einige konstruktive Anforderungen an Instrumente aus anatomischer und biomechanischer Sicht. Biomedizinische Technik, 1997, 42, 24-29.	0.9	6

#	Article	IF	CITATIONS
37	A modular BioMEMS platform for new procedures and experiments in tissue engineering. Journal of Micromechanics and Microengineering, 2009, 19, 074013.	1.5	6
38	Concept of a modular climbing robot. , 2009, , .		6
39	Cell cultures in microsystems: Biocompatibility aspects. Biotechnology and Bioengineering, 2011, 108, 687-693.	1.7	6
40	Design of an Assistance System for Elderly Based on Analyses of Needs and Acceptance. Lecture Notes in Computer Science, 2009, , 96-105.	1.0	6
41	JOINT ENERGY BALANCES: THE COMMITMENT TO THE SYNCHRONIZATION OF MEASURING SYSTEMS. Journal of Mechanics in Medicine and Biology, 2005, 05, 139-149.	0.3	5
42	Finite Element Analysis of the Membrane Used in a Novel BioMEMS. Journal of Biomimetics, Biomaterials, and Tissue Engineering, 0, 3, 51-57.	0.7	5
43	A Modular Concept for a Biologically Inspired Robot. Lecture Notes in Control and Information Sciences, 2009, , 391-400.	0.6	5
44	Calculation of muscle forces during normal gait under consideration of femoral bending moments. Medical Engineering and Physics, 2016, 38, 1008-1015.	0.8	5
45	PEDOT coating applied on thick film gold electrodes for increased miniaturization capability. Progress in Organic Coatings, 2019, 135, 545-554.	1.9	5
46	Biomechanical analyses of rat locomotion during walking and climbing as a base for the design and construction of climbing robots. , 2010, , .		5
47	Locomotion study of a single actuated, modular swimming robot. , 2010, , .		5
48	Kinematic response in limb and body posture to sensory feedback from carpal sinus hairs in the rat () Tj ETQq0 0	0 rgBT /C	Overlock 10 Tf
49	Animal Vibrissae: Modeling and Adaptive Control of Bio-inspired Sensors. Lecture Notes in Computer Science, 2013, , 159-170.	1.0	3
50	LTCC-based micro plasma source for the selective treatment of cell cultures. , 2017, , .		3
51	Surface properties and biocompatibility of thick film materials used in ceramic bioreactors. Materialia, 2019, 5, 100213.	1.3	3
52	Reducing complexness of control by intelligent mechanics in undulant swimming robots. International Journal of Design and Nature and Ecodynamics, 2012, 7, 1-13.	0.3	3
53	Quadruped locomotion. , 2018, , .		3
54	Ramp-Up-Effects in Spatial Aware Recommender Systems. , 2009, , .		2

#	Article	IF	CITATIONS
55	Biomechatronics is not just biomimetics. , 2013, , .		2
56	Characterizing the Substrate Contact of Carpal Vibrissae of Rats during Locomotion. Lecture Notes in Computer Science, 2014, , 399-401.	1.0	2
57	Microsystems for the Characterization of 3D-ECM Analogous Bio-Interfaces. IFMBE Proceedings, 2009, , 94-97.	0.2	2
58	WARMOR: Whegs Adaptation and Reconfiguration of MOdular Robot with Tunable Compliance. Lecture Notes in Computer Science, 2012, , 345-346.	1.0	2
59	A Phase-Shifting Double-Wheg-Module for Realization of Wheg-Driven Robots. Lecture Notes in Computer Science, 2014, , 97-107.	1.0	2
60	Ist die indirekte Posturographie mittels Kraftmeßplatten der direkten Posturographie durch Bewegungsanalyse gleichwertig? Eine physikalische Betrachtung - Is Indirect Posturography Using Force Plates Equally as Good as Direct Posturography Employing Movements Analysis? Physical considerations. Biomedizinische Technik, 1997, 42, 280-283.	0.9	1
61	Muskelkraftmessung mittels Kernspin-Spektroskopie. Biomedizinische Technik, 1997, 42, 79-80.	0.9	1
62	Patellofemoral Contact Characteristics in Total Knee Prostheses with and Without Anterior Patellar Flange. Journal of Applied Biomechanics, 2004, 20, 144-152.	0.3	1
63	In vivo-Messung der Relativbewegungen von Fragmenten gebrochener Langknochen. Biomedizinische Technik, 2009, , 365-366.	0.9	1
64	Automated control of micromanipulators - A tool for BioMEMS based cell culture. , 2009, , .		1
65	A miniaturized laser-Doppler-system in the ear canal. , 2013, , .		1
66	Design of a Bioinspired Variable Stiffness Sensor. , 2019, , .		1
67	Design and Control of a Flapping Wing System Test Bench. Advances in Intelligent Systems and Computing, 2020, , 34-42.	0.5	1
68	Investigation of Sensitivity of Foot Soles to Vibrational Stimuli: First Results for Developers of Information Interfaces. Lecture Notes in Computer Science, 2015, , 290-299.	1.0	1
69	Phases of Technical Gesture Recognition. Lecture Notes in Computer Science, 2015, , 130-139.	1.0	1
70	Topographical principles and peculiarities of operative access in lumbar disc extrusion. Der Orthopade, 1999, 28, 572-578.	0.7	0
71	Operieren und Präarieren an der Leiche – ein neues Ausbildungskonzept für die minimalinvasive Chirurgie. Visceral Medicine, 1999, 15, 46-48.	0.5	0
72	Die vaskulä Anatomie der vorderen Bauchwand: Ein Beitrag zur Vermeidung von GefäŸverletzungen bei der laparoskopischen Chirurgie. Visceral Medicine, 2003, 19, 81-85.	0.5	0

#	Article	IF	CITATIONS
73	Kinematisches Modell und Dynamiksimulation vierbeinigen Laufens von Sägetieren. , 2005, , 201-223.		0
74	The human skin as paragon of mechanical sensitive and adaptive coating. Comparative Biochemistry and Physiology Part A, Molecular & amp; Integrative Physiology, 2007, 146, S139.	0.8	0
75	BioMEMS for Processing and Testing of Hydrogel-Based Bio-Interfaces. Biomedizinische Technik, 2012, 57, .	0.9	0
76	Segmented flow microfluidics in multilumen tubing. Biomedizinische Technik, 2012, 57, .	0.9	0
77	Novel wireless measurement system of pressure dedicated to in vivo studies. Current Directions in Biomedical Engineering, 2016, 2, 123-127.	0.2	0
78	Development of a New Information Interface for Elderly Using Vibrations. Advances in Intelligent Systems and Computing, 2016, , 751-759.	0.5	0
79	Force plates may be used for dynamic analyses of endoprostheses explantation procedures. Biomedizinische Technik, 2019, 64, 243-245.	0.9	0
80	Application of Otoplastics to Increase the Reproducibility of OAE-analyses. IFMBE Proceedings, 2009, , 1492-1495.	0.2	0
81	Diagnostics of Human Body Stem Motor Functions by Systematic Provocation Method. IFMBE Proceedings, 2009, , 2150-2152.	0.2	0
82	Improvement of the Design Quality of 3D-Input Devices Using Motion Analyses and Biomechanical Comparisons. Lecture Notes in Computer Science, 2009, , 276-285.	1.0	0
83	TOWARDS AN ADHESIVE GRIPPING MODULE FOR HANDLING TASKS AND SMALL-SIZED CLIMBING ROBOTS. , 2010, , .		0
84	MECHANICAL DESIGN OF A CLIMBING ROBOT BASED ON BIOMECHANICAL ANALYSES. , 2010, , .		0
85	TOWARDS COMPLIANT DRIVES FOR MODULAR CLIMBING ROBOTS. , 2010, , .		0
86	A Small-Sized Underactuated Biologically Inspired Aquatic Robot. Lecture Notes in Computer Science, 2013, , 374-377.	1.0	0
87	IMPROVING RUNNING SMOOTHNESS OF WHEG-DRIVEN SYSTEMS WHILE MAINTAINING THE HIGH VALUED OBSTACLE PERFORMANCE. , 2015, , .		0
88	Estimation to Use the Stick Figure of Kinect \hat{A}^{\otimes} Version 2 for Digital Anthropometry. Advances in Intelligent Systems and Computing, 2019, , 530-543.	0.5	0