Christian Pylatiuk

List of Publications by Year
in descending order

45	1,138	567281 15	414414 32
papers	citations	h-index	g-index

50	50	50	1213
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Development of an Experimental Setup for Real-Time In-Line Dissolved Ozone Measurement for Medical Therapy. Ozone: Science and Engineering, 2022, 44, 499-509.	2.5	3
2	An Automated Experimentation System for the Touch-Response Quantification of Zebrafish Larvae. IEEE Transactions on Automation Science and Engineering, 2022, 19, 3007-3019.	5.2	3
3	High-Throughput Data Acquisition Platform for Multi-Larvae Touch-Response Behavior Screening of Zebrafish. IEEE Robotics and Automation Letters, 2022, 7, 858-865.	5.1	2
4	Methods for the frugal labeler: Multi-class semantic segmentation on heterogeneous labels. PLoS ONE, 2022, 17, e0263656.	2.5	5
5	DiversityScanner: Robotic handling of small invertebrates with machine learning methods. Molecular Ecology Resources, 2022, 22, 1626-1638.	4.8	39
6	Simulation and evaluation of a body energy harvesting device for arm and leg swing motions. AIP Advances, 2021, 11, 065201.	1.3	1
7	Long photoperiod impairs learning in male but not female medaka. IScience, 2021, 24, 102784.	4.1	8
8	Systematic assessment of the biocompatibility of materials for inkjet-printed ozone sensors for medical therapy. Flexible and Printed Electronics, 2021, 6, 043003.	2.7	5
9	Recent Developments in Ozone Sensor Technology for Medical Applications. Micromachines, 2020, 11, 624.	2.9	20
10	Automated high-throughput heartbeat quantification in medaka and zebrafish embryos under physiological conditions. Scientific Reports, 2020, 10, 2046.	3.3	57
11	Machine Learning Methods for Automated Quantification of Ventricular Dimensions. Zebrafish, 2019, 16, 542-545.	1.1	10
12	DIY Automated Feeding and Motion Recording System for the Analysis of Fish Behavior. SLAS Technology, 2019, 24, 394-398.	1.9	9
13	Automated Classification of Fertilized Zebrafish Embryos. Zebrafish, 2019, 16, 326-328.	1.1	6
14	Concept for a Permanent, Non-Invasive Blood Pressure Measurement in the Ear. , 2019, , .		3
15	Zebrafish: A Pharmacogenetic Model for Anesthesia. Methods in Enzymology, 2018, 602, 189-209.	1.0	8
16	Fully Automated Pipetting Sorting System for Different Morphological Phenotypes of Zebrafish Embryos. SLAS Technology, 2018, 23, 128-133.	1.9	12
17	Automated Versatile DIY Microscope Platform. , 2018, 2018, 5310-5312.		2
18	Therapeutic Chemical Screen Identifies Phosphatase Inhibitors to Reconstitute PKB Phosphorylation and Cardiac Contractility in ILK-Deficient Zebrafish. Biomolecules, 2018, 8, 153.	4.0	9

#	Article	IF	Citations
19	Using water-soluble additive manufacturing for cheap and soft silicon organ models. , 2018, , .		1
20	Design of a mechanism for converting the energy of knee motions by using electroactive polymers. Biomedizinische Technik, 2017, 62, 643-652.	0.8	4
21	Design of a body energy harvesting system for the upper extremity. Current Directions in Biomedical Engineering, 2017, 3, 331-334.	0.4	7
22	Semi-automated detection of fractional shortening in zebrafish embryo heart videos. Current Directions in Biomedical Engineering, 2016, 2, 233-236.	0.4	6
23	Portable auricular device for real-time swallow and chew detection. Current Directions in Biomedical Engineering, 2016, 2, 129-133.	0.4	2
24	Automated phenotype pattern recognition of zebrafish for high-throughput screening. Bioengineered, 2016, 7, 261-265.	3.2	16
25	Beispiele fÃ¼r den Einsatz von Automatisierungstechnik bei der Analyse biologischer Modellorganismen. Automatisierungstechnik, 2016, 64, 915-925.	0.8	0
26	An automated and high-throughput Photomotor Response platform for chemical screens. , 2015, 2015, 7728-31.		6
27	Automatic Zebrafish Heartbeat Detection and Analysis for Zebrafish Embryos. Zebrafish, 2014, 11, 379-383.	1.1	49
28	Harvesting kinetic energy to supply autonomous lighting on Nordic Walking poles. Proceedings of the Institution of Mechanical Engineers, Part P: Journal of Sports Engineering and Technology, 2014, 228, 136-146.	0.7	1
29	Kinetic energy scavenging in a prosthetic foot using a fluidic system. Biomedizinische Technik, 2013, 58, 353-8.	0.8	4
30	High-Throughput Screening of Zebrafish Embryos Using Automated Heart Detection and Imaging. Journal of the Association for Laboratory Automation, 2012, 17, 435-442.	2.8	47
31	A modular, low-cost robot for zebrafish handling. , 2012, 2012, 980-3.		12
32	Mechanical Performance of Actuators in an Active Orthosis for the Upper Extremities. Journal of Robotics, 2011, 2011, 1-7.	0.9	5
33	Ingenieurtechnische Besonderheiten bei der automatischen Handhabung von biologischen Organismen. Automatisierungstechnik, 2011, 59, 692-698.	0.8	2
34	OrthoJacket: an active FES-hybrid orthosis for the paralysed upper extremity. Biomedizinische Technik, 2011, 56, 35-44.	0.8	35
35	Robotersysteme fÃ¼r Hochdurchsatzverfahren in der Bioanalysetechnik. Automatisierungstechnik, 2011, 59, 134-140.	0.8	2
36	The FLUIDHAND III: A Multifunctional Prosthetic Hand. Journal of Prosthetics and Orthotics, 2009, 21, 91-96.	0.4	61

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37	Development of a miniaturised hydraulic actuation system for artificial hands. Sensors and Actuators A: Physical, 2008, 141, 548-557.	4.1	51
38	Results of an Internet survey of myoelectric prosthetic hand users. Prosthetics and Orthotics International, 2007, 31, 362-370.	1.0	204
39	Modularly designed lightweight anthropomorphic robot hand. , 2006, , .		14
40	Design and Evaluation of a Low-Cost Force Feedback System for Myoelectric Prosthetic Hands. Journal of Prosthetics and Orthotics, 2006, 18, 57-61.	0.4	129
41	Distribution of grip force in three different functional prehension patterns. Journal of Medical Engineering and Technology, 2006, 30, 176-182.	1.4	49
42	A hydraulically driven multifunctional prosthetic hand. Robotica, 2005, 23, 293-299.	1.9	59
43	A comparison of the grip force distribution in natural hands and in prosthetic hands. Disability and Rehabilitation, 2004, 26, 705-711.	1.8	106
44	Two Multiarticulated Hydraulic Hand Prostheses. Artificial Organs, 2004, 28, 980-986.	1.9	28
45	A New Class of Flexible Fluidic Actuators and their Applications in Medical Engineering. Automatisierungstechnik, 1999, 47, .	0.8	17