Christian Baumgartner

List of Publications by Year
in descending order

32 papers	**605** citations	1040056 **9** h-index	610901 **24** g-index
35 all docs	**35** docs citations	**35** times ranked	**975** citing authors

#	ARTICLE	IF	CITATIONS
1	A Human-Centered Machine-Learning Approach for Muscle-Tendon Junction Tracking in Ultrasound Images. IEEE Transactions on Biomedical Engineering, 2022, 69, 1920-1930.	4.2	3
2	Ion Channel Modeling beyond State of the Art: A Comparison with a System Theory-Based Model of the Shaker-Related Voltage-Gated Potassium Channel Kv1.1. Cells, 2022, 11, 239.	4.1	5
3	Light Stimulation of Neurons on Organic Photocapacitors Induces Action Potentials with Millisecond Precision. Advanced Materials Technologies, 2022, 7, .	5.8	7
4	A Systematic Review of the Transthoracic Impedance during Cardiac Defibrillation. Sensors, 2022, 22, 2808.	3.8	9
5	Creating a Novel Mathematical Model of the Kv10.1 Ion Channel and Controlling Channel Activity with Nanoelectromechanical Systems. Applied Sciences (Switzerland), 2022, 12, 3836.	2.5	1
6	Deep learning in spatiotemporal cardiac imaging: A review of methodologies and clinical usability. Computers in Biology and Medicine, 2021, 130, 104200.	7.0	22
7	Human plasma proteomic profiles indicative of cardiorespiratory fitness. Nature Metabolism, 2021, 3, 786-797.	11.9	36
8	A549 in-silico 1.0: A first computational model to simulate cell cycle dependent ion current modulation in the human lung adenocarcinoma. PLoS Computational Biology, 2021, 17, e1009091.	3.2	4
9	Notable Papers and New Directions in Sensors, Signals, and Imaging Informatics. Yearbook of Medical Informatics, 2021, 30, 150-158.	1.0	5
10	UStEMG: an Ultrasound Transparent Tattoo-based sEMG System for Unobtrusive Parallel Acquisitions of Muscle Electro-mechanics. , 2021, 2021, 7077-7082.		3
11	Automatic Tracking of the Muscle Tendon Junction in Healthy and Impaired Subjects using Deep Learning. , 2020, 2020, 4770-4774.		5
12	Notable Papers and Trends from 2019 in Sensors, Signals, and Imaging Informatics. Yearbook of Medical Informatics, 2020, 29, 139-144.	1.0	3
13	Human Fascicle Strain Behavior During Twitch using Ultrafast Ultrasound. , 2020, , .		5
14	Detection of Motor Endplates in Deep and Pennate Skeletal Muscles in-vivo using Ultrafast Ultrasound. , 2020, , .		3
15	Improved Tracking of Muscle Tendon Junctions in Ultrasound Images Using Speckle Reduction. Studies in Health Technology and Informatics, 2020, 271, 1-8.	0.3	2
16	Modeling External Stimulation of Excitable Cells Using a Novel Light-Activated Organic Semiconductor Technology. Studies in Health Technology and Informatics, 2020, 271, 9-16.	0.3	0
17	Advancing Artificial Intelligence in Sensors, Signals, and Imaging Informatics. Yearbook of Medical Informatics, 2019, 28, 115-117.	1.0	4
18	Ultrasound as a Tool to Study Muscle–Tendon Functions during Locomotion: A Systematic Review of Applications. Sensors, 2019, 19, 4316.	3.8	19

#	Article	IF	Citations
19	Evaluation of Adjustable Loop Suspensory Anterior Cruciate Ligament Fixation Devices. Current Directions in Biomedical Engineering, 2019, 5, 505-507.	0.4	0
20	Analysis of regulatory requirements of medical devices and in-vitro diagnostics worldwide for the development of an efficient procedure of registration for manufacturers of medical products. Current Directions in Biomedical Engineering, 2019, 5, 609-612.	0.4	7
21	A novel hybrid modeling approach for the evaluation of integrated care and economic outcome in heart failure treatment. BMC Medical Informatics and Decision Making, 2019, 19, 229.	3.0	4
22	UV/Ozone Surface Treatment for Bonding of Elastomeric COC-Based Microfluidic Devices. Proceedings (mdpi), 2018, 2, 943.	0.2	4
23	A novel network-based approach for discovering dynamic metabolic biomarkers in cardiovascular disease. PLoS ONE, 2018, 13, e0208953.	2.5	7
24	A New Input Device for Spastics Based on Strain Gauge. Sensors, 2017, 17, 880.	3.8	1
25	A New, Adaptable, Optical High-Resolution 3-Axis Sensor. Sensors, 2017, 17, 254.	3.8	2
26	Track T. Modelling and Simulation - Cardio Technology. Biomedizinische Technik, 2016, 61, 209-233.	0.8	1
27	Modeling and Classification of Kinetic Patterns of Dynamic Metabolic Biomarkers in Physical Activity. PLoS Computational Biology, 2015, 11, e1004454.	3.2	11
28	Bioinformatic-driven search for metabolic biomarkers in disease. Journal of Clinical Bioinformatics, 2011, 1, 2.	1.2	60
29	Profiling the human response to physical exercise: a computational strategy for the identification and kinetic analysis of metabolic biomarkers. Journal of Clinical Bioinformatics, 2011, 1, 34.	1.2	46
30	A new data mining approach for profiling and categorizing kinetic patterns of metabolic biomarkers after myocardial injury. Bioinformatics, 2010, 26, 1745-1751.	4.1	36
31	Metabolite profiling of blood from individuals undergoing planned myocardial infarction reveals early markers of myocardial injury. Journal of Clinical Investigation, 2008, 118, 3503-3512.	8.2	244
32	Different patterns of aortic wall elasticity in patients with Marfan syndrome: A noninvasive follow-up study. Journal of Thoracic and Cardiovascular Surgery, 2006, 132, 811-819.	0.8	42