

Christian Baumgartner

List of Publications by Year in descending order

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Version: 2024-02-01

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 | Metabolite profiling of blood from individuals undergoing planned myocardial infarction reveals early markers of myocardial injury. <i>Journal of Clinical Investigation</i> , 2008, 118, 3503-3512. | 8.2 | 244 |
| 2 | Bioinformatic-driven search for metabolic biomarkers in disease. <i>Journal of Clinical Bioinformatics</i> , 2011, 1, 2. | 1.2 | 60 |
| 3 | Profiling the human response to physical exercise: a computational strategy for the identification and kinetic analysis of metabolic biomarkers. <i>Journal of Clinical Bioinformatics</i> , 2011, 1, 34. | 1.2 | 46 |
| 4 | Different patterns of aortic wall elasticity in patients with Marfan syndrome: A noninvasive follow-up study. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2006, 132, 811-819. | 0.8 | 42 |
| 5 | A new data mining approach for profiling and categorizing kinetic patterns of metabolic biomarkers after myocardial injury. <i>Bioinformatics</i> , 2010, 26, 1745-1751. | 4.1 | 36 |
| 6 | Human plasma proteomic profiles indicative of cardiorespiratory fitness. <i>Nature Metabolism</i> , 2021, 3, 786-797. | 11.9 | 36 |
| 7 | Deep learning in spatiotemporal cardiac imaging: A review of methodologies and clinical usability. <i>Computers in Biology and Medicine</i> , 2021, 130, 104200. | 7.0 | 22 |
| 8 | Ultrasound as a Tool to Study Muscleâ€™Tendon Functions during Locomotion: A Systematic Review of Applications. <i>Sensors</i> , 2019, 19, 4316. | 3.8 | 19 |
| 9 | Modeling and Classification of Kinetic Patterns of Dynamic Metabolic Biomarkers in Physical Activity. <i>PLoS Computational Biology</i> , 2015, 11, e1004454. | 3.2 | 11 |
| 10 | A Systematic Review of the Transthoracic Impedance during Cardiac Defibrillation. <i>Sensors</i> , 2022, 22, 2808. | 3.8 | 9 |
| 11 | A novel network-based approach for discovering dynamic metabolic biomarkers in cardiovascular disease. <i>PLoS ONE</i> , 2018, 13, e0208953. | 2.5 | 7 |
| 12 | 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. <i>Current Directions in Biomedical Engineering</i> , 2019, 5, 609-612. | 0.4 | 7 |
| 13 | Light Stimulation of Neurons on Organic Photocapacitors Induces Action Potentials with Millisecond Precision. <i>Advanced Materials Technologies</i> , 2022, 7, . | 5.8 | 7 |
| 14 | Automatic Tracking of the Muscle Tendon Junction in Healthy and Impaired Subjects using Deep Learning. , 2020, 2020, 4770-4774. | | 5 |
| 15 | Human Fascicle Strain Behavior During Twitch using Ultrafast Ultrasound. , 2020, , . | | 5 |
| 16 | Notable Papers and New Directions in Sensors, Signals, and Imaging Informatics. <i>Yearbook of Medical Informatics</i> , 2021, 30, 150-158. | 1.0 | 5 |
| 17 | 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. <i>Cells</i> , 2022, 11, 239. | 4.1 | 5 |
| 18 | UV/Ozone Surface Treatment for Bonding of Elastomeric COC-Based Microfluidic Devices. <i>Proceedings (mdpi)</i> , 2018, 2, 943. | 0.2 | 4 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Advancing Artificial Intelligence in Sensors, Signals, and Imaging Informatics. Yearbook of Medical Informatics, 2019, 28, 115-117. | 1.0 | 4 |
| 20 | 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 |
| 21 | 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 |
| 22 | Notable Papers and Trends from 2019 in Sensors, Signals, and Imaging Informatics. Yearbook of Medical Informatics, 2020, 29, 139-144. | 1.0 | 3 |
| 23 | Detection of Motor Endplates in Deep and Pennate Skeletal Muscles in-vivo using Ultrafast Ultrasound. , 2020, , . | | 3 |
| 24 | 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 |
| 25 | UStEMG: an Ultrasound Transparent Tattoo-based sEMG System for Unobtrusive Parallel Acquisitions of Muscle Electro-mechanics. , 2021, 2021, 7077-7082. | | 3 |
| 26 | A New, Adaptable, Optical High-Resolution 3-Axis Sensor. Sensors, 2017, 17, 254. | 3.8 | 2 |
| 27 | 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 |
| 28 | Track T. Modelling and Simulation - Cardio Technology. Biomedizinische Technik, 2016, 61, 209-233. | 0.8 | 1 |
| 29 | A New Input Device for Spastics Based on Strain Gauge. Sensors, 2017, 17, 880. | 3.8 | 1 |
| 30 | 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 |
| 31 | Evaluation of Adjustable Loop Suspensory Anterior Cruciate Ligament Fixation Devices. Current Directions in Biomedical Engineering, 2019, 5, 505-507. | 0.4 | 0 |
| 32 | 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 |