

Leonardo Bocchi

List of Publications by Year in descending order

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Version: 2024-02-01

119
papers

1,856
citations

279487

23
h-index

329751

37
g-index

125
all docs

125
docs citations

125
times ranked

2644
citing authors

#	ARTICLE	IF	CITATIONS
1	Linear and Nonlinear Directed Connectivity Analysis of the Cardio-Respiratory System in Type 1 Diabetes. <i>Frontiers in Network Physiology</i> , 2022, 2, .	0.8	4
2	Mortality Risk Associated with Diabetic Foot Complications in People with or without History of Diabetic Foot Hospitalizations. <i>Journal of Clinical Medicine</i> , 2022, 11, 2454.	1.0	1
3	Augmented Reality in Surgery: A Scoping Review. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 6890.	1.3	28
4	Cobalt oxide nanoparticles induce oxidative stress and alter electromechanical function in rat ventricular myocytes. <i>Particle and Fibre Toxicology</i> , 2021, 18, 1.	2.8	21
5	An Improved Model for the Assessment of Cutaneous Microcirculation in Type 1 Diabetes. <i>IFMBE Proceedings</i> , 2021, , 37-46.	0.2	1
6	Elevated miR-34a expression and altered transcriptional profile are associated with adverse electromechanical remodeling in the heart of male rats exposed to social stress. <i>Stress</i> , 2021, 24, 621-634.	0.8	6
7	Wearable Detection of Trunk Flexions: Capacitive Elastomeric Sensors Compared to Inertial Sensors. <i>Sensors</i> , 2021, 21, 5453.	2.1	7
8	Fuzzy FMECA Process Analysis for Managing the Risks in the Lifecycle of a CBCT Scanner. <i>IEEE Access</i> , 2021, 9, 135723-135741.	2.6	2
9	Monitoring Flexions and Torsions of the Trunk via Gyroscope-Calibrated Capacitive Elastomeric Wearable Sensors. <i>Sensors</i> , 2021, 21, 6706.	2.1	3
10	Quantification of Myocyte Disarray in Human Cardiac Tissue. <i>Frontiers in Physiology</i> , 2021, 12, 750364.	1.3	7
11	Vascular ageing and peripheral pulse: an improved model for assessing their relationship. <i>Physiological Measurement</i> , 2021, 42, 125002.	1.2	7
12	The Role of New Technological Opportunities and the Need to Evaluate the Activities Performed in the Prevention of Diabetic Foot with Exercise Therapy. <i>Medicines (Basel, Switzerland)</i> , 2021, 8, 76.	0.7	2
13	Reputation matters the most: The reputation inertia effect. <i>Human Behavior and Emerging Technologies</i> , 2020, 2, 71-81.	2.5	10
14	Effects of Standardized Green Tea Extract and Its Main Component, EGCG, on Mitochondrial Function and Contractile Performance of Healthy Rat Cardiomyocytes. <i>Nutrients</i> , 2020, 12, 2949.	1.7	6
15	Analysis of myogenic and respiratory oscillatory components in laser Doppler flowmetry pulse waveforms. , 2020, , .		1
16	Analysis of Feasibility, Adherence, and Appreciation of a Newly Developed Tele-Rehabilitation Program for People With MCI and VCI. <i>Frontiers in Neurology</i> , 2020, 11, 583368.	1.1	14
17	Blockade of Oncogenic NOTCH1 with the SERCA Inhibitor CAD204520 in T Cell Acute Lymphoblastic Leukemia. <i>Cell Chemical Biology</i> , 2020, 27, 678-697.e13.	2.5	27
18	Wavelet Phase Coherence Analysis Between the Respiratory Activity and the Microcirculation: The Effects of Type 1 Diabetes. <i>IFMBE Proceedings</i> , 2020, , 61-65.	0.2	1

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19	Pulse decomposition analysis in photoplethysmography imaging. <i>Physiological Measurement</i> , 2020, 41, 095009.	1.2	11
20	GOAL (Games for Olders Active Life): A Web-Application for Cognitive Impairment Tele-Rehabilitation. <i>IFMBE Proceedings</i> , 2019, , 177-182.	0.2	5
21	Subchronic exposure to titanium dioxide nanoparticles modifies cardiac structure and performance in spontaneously hypertensive rats. <i>Particle and Fibre Toxicology</i> , 2019, 16, 25.	2.8	32
22	Pulse decomposition analysis in camera-based photoplethysmography. , 2019, 2019, 3179-3182.		5
23	The Histone Deacetylase Inhibitor Suberoylanilide Hydroxamic Acid (SAHA) Restores Cardiomyocyte Contractility in a Rat Model of Early Diabetes. <i>International Journal of Molecular Sciences</i> , 2019, 20, 1873.	1.8	15
24	Assessment of cutaneous microcirculation by laser Doppler flowmetry in type 1 diabetes. <i>Microvascular Research</i> , 2019, 124, 91-96.	1.1	31
25	FMECA Design Analysis: Risk Management for the Manufacture of a CBCT Scanner. <i>IEEE Access</i> , 2019, 7, 181546-181564.	2.6	6
26	Glycemic Control Maintained over Time and Joint Stiffness in Young Type 1 Patients: What Is the Mathematical Relationship?. <i>Journal of Diabetes Science and Technology</i> , 2019, 13, 728-733.	1.3	4
27	Wavelet Phase Coherence Between the Microvascular Pulse Contour and the Respiratory Activity. <i>IFMBE Proceedings</i> , 2019, , 311-314.	0.2	7
28	Multi-gaussian Decomposition of the Microvascular Pulse Detects Alterations in Type 1 Diabetes. <i>IFMBE Proceedings</i> , 2019, , 173-176.	0.2	0
29	Modeling of the Microvascular Pulse for Tracking the Vasoconstriction Response to Deep Inspiratory Gasp. <i>IFMBE Proceedings</i> , 2019, , 307-310.	0.2	0
30	Wearable Kinematic Monitoring System Based on Piezocapacitive Sensors. <i>Studies in Health Technology and Informatics</i> , 2019, 261, 103-108.	0.2	2
31	Detecting Vascular Age Using the Analysis of Peripheral Pulse. <i>IEEE Transactions on Biomedical Engineering</i> , 2018, 65, 2742-2750.	2.5	41
32	A Mathematical Model for Reverberations in Biomedical Ultrasound Transducers: a case study. , 2018, , .		2
33	Dynamic Contrast-Enhanced Ultrasound Identifies Microcirculatory Alterations in Sepsis-Induced Acute Kidney Injury. <i>Critical Care Medicine</i> , 2018, 46, 1284-1292.	0.4	65
34	HDAC Inhibition Improves the Sarcoendoplasmic Reticulum Ca ²⁺ -ATPase Activity in Cardiac Myocytes. <i>International Journal of Molecular Sciences</i> , 2018, 19, 419.	1.8	21
35	Trimethylamine-N-Oxide (TMAO)-Induced Impairment of Cardiomyocyte Function and the Protective Role of Urolithin B-Glucuronide. <i>Molecules</i> , 2018, 23, 549.	1.7	71
36	Real-time optical manipulation of cardiac conduction in intact hearts. <i>Journal of Physiology</i> , 2018, 596, 3841-3858.	1.3	42

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37	Real-Time Optical Manipulation of Cardiac Conduction in Intact Hearts. <i>Biophysical Journal</i> , 2018, 114, 166a.	0.2	0
38	Long-Term Oral Administration of Theaphenon-E Improves Cardiomyocyte Mechanics and Calcium Dynamics by Affecting Phospholamban Phosphorylation and ATP Production. <i>Cellular Physiology and Biochemistry</i> , 2018, 47, 1230-1243.	1.1	12
39	Particle tracking for the assessment of microcirculatory perfusion. <i>Physiological Measurement</i> , 2017, 38, 358-373.	1.2	3
40	Spatial heterogeneity in the time and frequency properties of skin perfusion. <i>Physiological Measurement</i> , 2017, 38, 860-876.	1.2	15
41	Cardiac pulse waves modeling and analysis in laser Doppler perfusion signals of the skin microcirculation. <i>IFMBE Proceedings</i> , 2017, , 20-25.	0.2	5
42	In vivo administration of urolithin A and B prevents the occurrence of cardiac dysfunction in streptozotocin-induced diabetic rats. <i>Cardiovascular Diabetology</i> , 2017, 16, 80.	2.7	99
43	Evaluation of spatial distribution of skin blood flow using optical imaging. <i>IFMBE Proceedings</i> , 2017, , 74-80.	0.2	3
44	A mathematical model of the effect of metabolic control on joint mobility in young type 1 diabetic subjects. <i>IFMBE Proceedings</i> , 2017, , 355-359.	0.2	1
45	Parenchymal and Stromal Cells Contribute to Pro-Inflammatory Myocardial Environment at Early Stages of Diabetes: Protective Role of Resveratrol. <i>Nutrients</i> , 2016, 8, 729.	1.7	14
46	Antiarrhythmic effect of growth factor-supplemented cardiac progenitor cells in chronic infarcted heart. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2016, 310, H1622-H1648.	1.5	23
47	Real time intention recognition. , 2016, , .		7
48	Metaheuristics for Specialization of a Segmentation Algorithm for Ultrasound Images. <i>IEEE Transactions on Evolutionary Computation</i> , 2016, 20, 730-741.	7.5	13
49	Resonance artefacts in modern pressure monitoring systems. <i>Journal of Clinical Monitoring and Computing</i> , 2016, 30, 707-714.	0.7	6
50	Shape analysis of the microcirculatory flow wave. <i>Physiological Measurement</i> , 2015, 36, 2147-2158.	1.2	3
51	Analysis of the microcirculatory pulse wave: age-related alterations. , 2015, 2015, 7362-5.		5
52	Monitoring the microcirculation at the bedside using hand-held imaging microscopes: Automatic tracking of erythrocytes. , 2015, 2015, 7378-81.		3
53	Morphological analysis of neurons: Automatic identification of elongations. , 2015, 2015, 8131-4.		4
54	Automated tracking of quantitative parameters from single line scanning of vocal folds: A case study of the "messa di voce"™ exercise. <i>Logopedics Phoniatrics Vocology</i> , 2015, 40, 44-54.	0.5	18

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55	Effect of ultrasounds on neurons and microglia: Cell viability and automatic analysis of cell morphology. Biomedical Signal Processing and Control, 2015, 22, 44-53.	3.5	5
56	Enhanced engraftment and repairing ability of human adipose-derived stem cells, conveyed by pharmacologically active microcarriers continuously releasing <scp>HGF</scp> and <scp>IGF</scp>, in healing myocardial infarction in rats. Journal of Biomedical Materials Research - Part A, 2015, 103, 3012-3025.	2.1	37
57	Titanium dioxide nanoparticles promote arrhythmias via a direct interaction with rat cardiac tissue. Particle and Fibre Toxicology, 2014, 11, 63.	2.8	76
58	Modeling of thermal regulation of peripheral circulation. , 2014, , .		1
59	Bioaccumulation of resveratrol metabolites in myocardial tissue is dose-time dependent and related to cardiac hemodynamics in diabetic rats. Nutrition, Metabolism and Cardiovascular Diseases, 2014, 24, 408-415.	1.1	52
60	Effect of local blood flow in thermal regulation in diabetic patient. Microvascular Research, 2013, 88, 42-47.	1.1	12
61	Differences in ionic currents between canine myocardial and Purkinje cells. Physiological Reports, 2013, 1, .	0.7	8
62	Modelling of Thermal Hyperemia in the Skin of Type 2 Diabetic Patients. Journal of Healthcare Engineering, 2013, 4, 541-554.	1.1	7
63	Semiautomated breast cancer classification from ultrasound video. , 2012, , .		4
64	A Genetic Fuzzy Rules Learning Approach for Unseeded Segmentation in Echography. Lecture Notes in Computer Science, 2012, , 305-314.	1.0	1
65	Automatic newborn cry analysis: A Non-invasive tool to help autism early diagnosis. , 2012, 2012, 2953-6.		24
66	Resveratrol Treatment Reduces Cardiac Progenitor Cell Dysfunction and Prevents Morpho-Functional Ventricular Remodeling in Type-1 Diabetic Rats. PLoS ONE, 2012, 7, e39836.	1.1	63
67	Videokymographic image processing: Objective parameters and user-friendly interface. Biomedical Signal Processing and Control, 2012, 7, 192-201.	3.5	22
68	To what degree of voice perturbation are jitter measurements valid? A novel approach with synthesized vowels and visuo-perceptual pattern recognition. Biomedical Signal Processing and Control, 2012, 7, 37-42.	3.5	23
69	Perturbation measurements in highly irregular voice signals: Performances/validity of analysis software tools. Biomedical Signal Processing and Control, 2012, 7, 409-416.	3.5	24
70	Central blood oxygen saturation vs crying in preterm newborns. Biomedical Signal Processing and Control, 2012, 7, 88-92.	3.5	13
71	Differences in ionic currents between myocardial and Purkinje cells of canine heart. FASEB Journal, 2012, 26, 1053.5.	0.2	0
72	Automatic Detection of Snore Events from Full Night Audio Recordings. IFMBE Proceedings, 2011, , 183-186.	0.2	1

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73	Validity of jitter measures in non-quasi-periodic voices. Part II: The effect of noise. Logopedics Phoniatrics Vocology, 2011, 36, 78-89.	0.5	30
74	Validity of jitter measures in non-quasi-periodic voices. Part I: Perceptual and computer performances in cycle pattern recognition. Logopedics Phoniatrics Vocology, 2011, 36, 70-77.	0.5	25
75	Growth Factor-Induced Mobilization of Cardiac Progenitor Cells Reduces the Risk of Arrhythmias, in a Rat Model of Chronic Myocardial Infarction. PLoS ONE, 2011, 6, e17750.	1.1	31
76	Segmentation of Ultrasound Breast Images: Optimization of Algorithm Parameters. Lecture Notes in Computer Science, 2011, , 163-172.	1.0	5
77	The histone deacetylase inhibitor suberoylanilide hydroxamic acid reduces cardiac arrhythmias in dystrophic mice. Cardiovascular Research, 2010, 87, 73-82.	1.8	43
78	Recovery of 0.1Hz microvascular skin blood flow in dysautonomic diabetic (type 2) neuropathy by using Frequency Rhythmic Electrical Modulation System (FREMS). Medical Engineering and Physics, 2010, 32, 407-413.	0.8	19
79	Detection of runway boundary in ATC ground radar. , 2010, , .		1
80	Real time detection and tracking of Gauzes by RFID UWB technique. , 2010, , .		6
81	Evolution of Communicating Individuals. Lecture Notes in Computer Science, 2010, , 328-335.	1.0	1
82	Modulation of actin isoform expression before the transition from experimental compensated pressure-overload cardiac hypertrophy to decompensation. American Journal of Physiology - Heart and Circulatory Physiology, 2009, 296, H1625-H1632.	1.5	24
83	High-resolution cry analysis in preterm newborn infants. Medical Engineering and Physics, 2009, 31, 528-532.	0.8	30
84	A multipurpose user-friendly tool for voice analysis: Application to pathological adult voices. Biomedical Signal Processing and Control, 2009, 4, 212-220.	3.5	21
85	Video-based human motion estimation system for gaming user interface. , 2009, , .		1
86	Video-Based Human Motion Estimation System. Lecture Notes in Computer Science, 2009, , 132-139.	1.0	5
87	Automatic System for the Analysis and the Discrimination of Breast Nodules in Ultrasound Imaging. IFMBE Proceedings, 2009, , 1949-1952.	0.2	2
88	Effect of Frequency Rhythmic Electrical Modulation System (FREMS) on 0.1 Hz microvascular skin blood flow in dysautonomic diabetic (type 2) neuropathy. IFMBE Proceedings, 2009, , 1283-1286.	0.2	0
89	Discrimination of Fatigue in Walking Patterns. IFMBE Proceedings, 2009, , 1275-1278.	0.2	1
90	Characterization of the slowly inactivating sodium current I_{Na2} in canine cardiac single Purkinje cells. Experimental Physiology, 2008, 93, 347-361.	0.9	13

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91	Detection of snow clutter in ATC ground radar signal. , 2008, , .		3
92	Non-invasive distress evaluation in preterm newborn infants. , 2008, 2008, 2908-11.		2
93	Non invasive distress monitoring in children hospital intensive care unit. , 2008, , .		2
94	A comparison between internal and surface temperature measurement techniques during phacoemulsification cataract surgery: thermocamera versus thermocouple. Journal of Applied Biomaterials and Biomechanics, 2008, 6, 151-6.	0.4	2
95	Improvements of radar clutter classification in air traffic control environment. , 2007, , .		8
96	Shape analysis of microcalcifications using Radon transform. Medical Engineering and Physics, 2007, 29, 691-698.	0.8	16
97	A slowly inactivating sodium current (INa2) in the plateau range in canine cardiac Purkinje single cells. Experimental Physiology, 2007, 92, 161-173.	0.9	21
98	Preservation of ventricular performance at early stages of diabetic cardiomyopathy involves changes in myocyte size, number and intercellular coupling. Basic Research in Cardiology, 2007, 102, 488-499.	2.5	30
99	Monitoring of preterm infants during crying episodes. IFMBE Proceedings, 2007, , 449-452.	0.2	3
100	System for Tracing of blood transfusions and RFID. IFMBE Proceedings, 2007, , 1062-1065.	0.2	0
101	Effects of the α 2-Adrenergic/DA2-Dopaminergic Agonist CHF-1024 in Preventing Ventricular Arrhythmogenesis and Myocyte Electrical Remodeling, in a Rat Model of Pressure-Overload Cardiac Hypertrophy. Journal of Cardiovascular Pharmacology, 2006, 47, 295-302.	0.8	6
102	Correlation of α -skeletal actin expression, ventricular fibrosis and heart function with the degree of pressure overload cardiac hypertrophy in rats. Experimental Physiology, 2006, 91, 571-580.	0.9	36
103	Objective vocal fold vibration assessment from videokymographic images. Biomedical Signal Processing and Control, 2006, 1, 129-136.	3.5	29
104	A Robust Tool for Newborn Infant Cry Analysis. , 2006, 2006, 509-12.		8
105	Image Space Colonization Algorithm. Lecture Notes in Computer Science, 2006, , 356-367.	1.0	0
106	A Robust Tool for Newborn Infant Cry Analysis. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2006, , .	0.5	0
107	A New Evolutionary Algorithm for Image Segmentation. Lecture Notes in Computer Science, 2005, , 264-273.	1.0	11
108	Vulnerability to ventricular arrhythmias and heterogeneity of action potential duration in normal rats. Experimental Physiology, 2004, 89, 387-396.	0.9	6

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109	Detection of single and clustered microcalcifications in mammograms using fractals models and neural networks. Medical Engineering and Physics, 2004, 26, 303-312.	0.8	97
110	Image Segmentation by a Genetic Fuzzy c-Means Algorithm Using Color and Spatial Information. Lecture Notes in Computer Science, 2004, , 260-269.	1.0	9
111	Actin isoform pattern expression: a tool for the diagnosis and biological characterization of human rhabdomyosarcoma. Virchows Archiv Fur Pathologische Anatomie Und Physiologie Und Fur Klinische Medizin, 2003, 442, 31-38.	1.4	23
112	Î±-Actin isoform distribution in normal and failing human heart: a morphological, morphometric, and biochemical study. Journal of Pathology, 2003, 199, 387-397.	2.1	96
113	Bone segmentation using multiple communicating snakes. , 2003, , .		2
114	Multiple Genetic Snakes for Bone Segmentation. Lecture Notes in Computer Science, 2003, , 346-356.	1.0	14
115	Social stress, myocardial damage and arrhythmias in rats with cardiac hypertrophy. Physiology and Behavior, 2001, 73, 351-358.	1.0	9
116	Tissue characterization from X-ray images. Medical Engineering and Physics, 1997, 19, 336-342.	0.8	22
117	A fractal approach to predict fat content in meat images. , 0, , .		5
118	An artificial neural network architecture for skeletal age assessment. , 0, , .		13
119	Texture analysis and optical anisotropy measurements of leukocytes for early diagnostics of diabetes mellitus. , 0, , .		0