## Leonardo Bocchi

List of Publications by Year in descending order

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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	In vivo administration of urolithin A and B prevents the occurrence of cardiac dysfunction in streptozotocin-induced diabetic rats. Cardiovascular Diabetology, 2017, 16, 80.	2.7	99
2	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
3	α-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
4	Titanium dioxide nanoparticles promote arrhythmias via a direct interaction with rat cardiac tissue. Particle and Fibre Toxicology, 2014, 11, 63.	2.8	76
5	Trimethylamine-N-Oxide (TMAO)-Induced Impairment of Cardiomyocyte Function and the Protective Role of Urolithin B-Glucuronide. Molecules, 2018, 23, 549.	1.7	71
6	Dynamic Contrast-Enhanced Ultrasound Identifies Microcirculatory Alterations in Sepsis-Induced Acute Kidney Injury. Critical Care Medicine, 2018, 46, 1284-1292.	0.4	65
7	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
8	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
9	The histone deacetylase inhibitor suberoylanilide hydroxamic acid reduces cardiac arrhythmias in dystrophic mice. Cardiovascular Research, 2010, 87, 73-82.	1.8	43
10	Realâ€time optical manipulation of cardiac conduction in intact hearts. Journal of Physiology, 2018, 596, 3841-3858.	1.3	42
11	Detecting Vascular Age Using the Analysis of Peripheral Pulse. IEEE Transactions on Biomedical Engineering, 2018, 65, 2742-2750.	2.5	41
12	Enhanced engraftment and repairing ability of human adiposeâ€derived stem cells, conveyed by pharmacologically active microcarriers continuously releasing ⟨scp⟩HGF⟨ scp⟩ and ⟨scp⟩IGF⟨ scp⟩â€1, in healing myocardial infarction in rats. Journal of Biomedical Materials Research - Part A, 2015, 103, 3012-3025.	2.1	37
13	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
14	Subchronic exposure to titanium dioxide nanoparticles modifies cardiac structure and performance in spontaneously hypertensive rats. Particle and Fibre Toxicology, 2019, 16, 25.	2.8	32
15	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
16	Assessment of cutaneous microcirculation by laser Doppler flowmetry in type 1 diabetes. Microvascular Research, 2019, 124, 91-96.	1.1	31
17	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
18	High-resolution cry analysis in preterm newborn infants. Medical Engineering and Physics, 2009, 31, 528-532.	0.8	30

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19	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
20	Objective vocal fold vibration assessment from videokymographic images. Biomedical Signal Processing and Control, 2006, 1, 129-136.	3.5	29
21	Augmented Reality in Surgery: A Scoping Review. Applied Sciences (Switzerland), 2022, 12, 6890.	1.3	28
22	Blockade of Oncogenic NOTCH1 with the SERCA Inhibitor CAD204520 in T Cell Acute Lymphoblastic Leukemia. Cell Chemical Biology, 2020, 27, 678-697.e13.	2.5	27
23	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
24	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
25	Automatic newborn cry analysis: A Non-invasive tool to help autism early diagnosis., 2012, 2012, 2953-6.		24
26	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
27	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
28	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
29	Antiarrhythmic effect of growth factor-supplemented cardiac progenitor cells in chronic infarcted heart. American Journal of Physiology - Heart and Circulatory Physiology, 2016, 310, H1622-H1648.	1.5	23
30	Tissue characterization from X-ray images. Medical Engineering and Physics, 1997, 19, 336-342.	0.8	22
31	Videokymographic image processing: Objective parameters and user-friendly interface. Biomedical Signal Processing and Control, 2012, 7, 192-201.	3.5	22
32	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
33	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
34	HDAC Inhibition Improves the Sarcoendoplasmic Reticulum Ca2+-ATPase Activity in Cardiac Myocytes. International Journal of Molecular Sciences, 2018, 19, 419.	1.8	21
35	Cobalt oxide nanoparticles induce oxidative stress and alter electromechanical function in rat ventricular myocytes. Particle and Fibre Toxicology, 2021, 18, 1.	2.8	21
36	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

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37	Automated tracking of quantitative parameters from single line scanning of vocal folds: A case study of the â€~messa di voce' exercise. Logopedics Phoniatrics Vocology, 2015, 40, 44-54.	0.5	18
38	Shape analysis of microcalcifications using Radon transform. Medical Engineering and Physics, 2007, 29, 691-698.	0.8	16
39	Spatial heterogeneity in the time and frequency properties of skin perfusion. Physiological Measurement, 2017, 38, 860-876.	1.2	15
40	The Histone Deacetylase Inhibitor Suberoylanilide Hydroxamic Acid (SAHA) Restores Cardiomyocyte Contractility in a Rat Model of Early Diabetes. International Journal of Molecular Sciences, 2019, 20, 1873.	1.8	15
41	Parenchymal and Stromal Cells Contribute to Pro-Inflammatory Myocardial Environment at Early Stages of Diabetes: Protective Role of Resveratrol. Nutrients, 2016, 8, 729.	1.7	14
42	Analysis of Feasibility, Adherence, and Appreciation of a Newly Developed Tele-Rehabilitation Program for People With MCI and VCI. Frontiers in Neurology, 2020, 11, 583368.	1.1	14
43	Multiple Genetic Snakes for Bone Segmentation. Lecture Notes in Computer Science, 2003, , 346-356.	1.0	14
44	An artificial neural network architecture for skeletal age assessment. , 0, , .		13
45	Characterization of the slowly inactivating sodium current <i>I</i> <sub>Na2</sub> in canine cardiac single Purkinje cells. Experimental Physiology, 2008, 93, 347-361.	0.9	13
46	Central blood oxygen saturation vs crying in preterm newborns. Biomedical Signal Processing and Control, 2012, 7, 88-92.	3.5	13
47	Metaheuristics for Specialization of a Segmentation Algorithm for Ultrasound Images. IEEE Transactions on Evolutionary Computation, 2016, 20, 730-741.	7.5	13
48	Effect of local blood flow in thermal regulation in diabetic patient. Microvascular Research, 2013, 88, 42-47.	1.1	12
49	Long-Term Oral Administration of Theaphenon-E Improves Cardiomyocyte Mechanics and Calcium Dynamics by Affecting Phospholamban Phosphorylation and ATP Production. Cellular Physiology and Biochemistry, 2018, 47, 1230-1243.	1.1	12
50	A New Evolutionary Algorithm for Image Segmentation. Lecture Notes in Computer Science, 2005, , 264-273.	1.0	11
51	Pulse decomposition analysis in photoplethysmography imaging. Physiological Measurement, 2020, 41, 095009.	1.2	11
52	Reputation matters the most: The reputation inertia effect. Human Behavior and Emerging Technologies, 2020, 2, 71-81.	2.5	10
53	Social stress, myocardial damage and arrhythmias in rats with cardiac hypertrophy. Physiology and Behavior, 2001, 73, 351-358.	1.0	9
54	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

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55	A Robust Tool for Newborn Infant Cry Analysis. , 2006, 2006, 509-12.		8
56	Improvements of radar clutter classification in air traffic control environment., 2007,,.		8
57	Differences in ionic currents between canine myocardial and Purkinje cells. Physiological Reports, $2013,1,\ldots$	0.7	8
58	Modelling of Thermal Hyperemia in the Skin of Type 2 Diabetic Patients. Journal of Healthcare Engineering, 2013, 4, 541-554.	1.1	7
59	Real time intention recognition. , 2016, , .		7
60	Wearable Detection of Trunk Flexions: Capacitive Elastomeric Sensors Compared to Inertial Sensors. Sensors, 2021, 21, 5453.	2.1	7
61	Wavelet Phase Coherence Between the Microvascular Pulse Contour and the Respiratory Activity. IFMBE Proceedings, 2019, , 311-314.	0.2	7
62	Quantification of Myocyte Disarray in Human Cardiac Tissue. Frontiers in Physiology, 2021, 12, 750364.	1.3	7
63	Vascular ageing and peripheral pulse: an improved model for assessing their relationship. Physiological Measurement, 2021, 42, 125002.	1.2	7
64	Vulnerability to ventricular arrhthmias and heterogeneity of action potential duration in normal rats. Experimental Physiology, 2004, 89, 387-396.	0.9	6
65	Effects of the ??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
66	Real time detection and tracking of Gauzes by RFID UWB technique. , 2010, , .		6
67	Resonance artefacts in modern pressure monitoring systems. Journal of Clinical Monitoring and Computing, 2016, 30, 707-714.	0.7	6
68	FMECA Design Analysis: Risk Management for the Manufacture of a CBCT Scanner. IEEE Access, 2019, 7, 181546-181564.	2.6	6
69	Effects of Standardized Green Tea Extract and Its Main Component, EGCG, on Mitochondrial Function and Contractile Performance of Healthy Rat Cardiomyocytes. Nutrients, 2020, 12, 2949.	1.7	6
70	Elevated miR-34a expression and altered transcriptional profile are associated with adverse electromechanical remodeling in the heart of male rats exposed to social stress. Stress, 2021, 24, 621-634.	0.8	6
71	A fractal approach to predict fat content in meat images. , 0, , .		5
72	Segmentation of Ultrasound Breast Images: Optimization of Algorithm Parameters. Lecture Notes in Computer Science, 2011, , 163-172.	1.0	5

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73	Analysis of the microcirculatory pulse wave: age-related alterations., 2015, 2015, 7362-5.		5
74	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
75	Cardiac pulse waves modeling and analysis in laser Doppler perfusion signals of the skin microcirculation. IFMBE Proceedings, 2017, , 20-25.	0.2	5
76	GOAL (Games for Olders Active Life): A Web-Application for Cognitive Impairment Tele-Rehabilitation. IFMBE Proceedings, 2019, , 177-182.	0.2	5
77	Pulse decomposition analysis in camera-based photoplethysmography. , 2019, 2019, 3179-3182.		5
78	Video-Based Human Motion Estimation System. Lecture Notes in Computer Science, 2009, , 132-139.	1.0	5
79	Semiautomated breast cancer classification from ultrasound video. , 2012, , .		4
80	Morphological analysis of neurons: Automatic identification of elongations. , 2015, 2015, 8131-4.		4
81	Glycemic Control Maintained over Time and Joint Stiffness in Young Type 1 Patients: What Is the Mathematical Relationship?. Journal of Diabetes Science and Technology, 2019, 13, 728-733.	1.3	4
82	Linear and Nonlinear Directed Connectivity Analysis of the Cardio-Respiratory System in Type 1 Diabetes. Frontiers in Network Physiology, 2022, 2, .	0.8	4
83	Detection of snow clutter in ATC ground radar signal. , 2008, , .		3
84	Shape analysis of the microcirculatory flow wave. Physiological Measurement, 2015, 36, 2147-2158.	1.2	3
85	Monitoring the microcirculation at the bedside using hand-held imaging microscopes: Automatic tracking of erythrocytes., 2015, 2015, 7378-81.		3
86	Particle tracking for the assessment of microcirculatory perfusion. Physiological Measurement, 2017, 38, 358-373.	1.2	3
87	Monitoring of preterm infants during crying episodes. IFMBE Proceedings, 2007, , 449-452.	0.2	3
88	Evaluation of spatial distribution of skin blood flow using optical imaging. IFMBE Proceedings, 2017, , 74-80.	0.2	3
89	Monitoring Flexions and Torsions of the Trunk via Gyroscope-Calibrated Capacitive Elastomeric Wearable Sensors. Sensors, 2021, 21, 6706.	2.1	3
90	Bone segmentation using multiple communicating snakes. , 2003, , .		2

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91	Non-invasive distress evaluation in preterm newborn infants. , 2008, 2008, 2908-11.		2
92	A Mathematical Model for Reverberations in Biomedical Ultrasound Transducers: a case study. , 2018, , .		2
93	Automatic System for the Analysis and the Discrimination of Breast Nodules in Ultrasound Imaging. IFMBE Proceedings, 2009, , 1949-1952.	0.2	2
94	Fuzzy FMECA Process Analysis for Managing the Risks in the Lifecycle of a CBCT Scanner. IEEE Access, 2021, 9, 135723-135741.	2.6	2
95	Non invasive distress monitoring in children hospital intensive care unit. , 2008, , .		2
96	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
97	Wearable Kinematic Monitoring System Based on Piezocapacitive Sensors. Studies in Health Technology and Informatics, 2019, 261, 103-108.	0.2	2
98	The Role of New Technological Opportunities and the Need to Evaluate the Activities Performed in the Prevention of Diabetic Foot with Exercise Therapy. Medicines (Basel, Switzerland), 2021, 8, 76.	0.7	2
99	Video-based human motion estimation system for gaming user interface., 2009,,.		1
100	Detection of runway boundary in ATC ground radar. , 2010, , .		1
101	Automatic Detection of Snore Events from Full Night Audio Recordings. IFMBE Proceedings, 2011, , 183-186.	0.2	1
102	A Genetic Fuzzy Rules Learning Approach for Unseeded Segmentation in Echography. Lecture Notes in Computer Science, 2012, , 305-314.	1.0	1
103	Modeling of thermal regulation of peripheral circulation. , 2014, , .		1
104	Analysis of myogenic and respiratory oscillatory components in laser Doppler flowmetry pulse waveforms. , 2020, , .		1
105	An Improved Model for the Assessment of Cutaneous Microcirculation in Type 1 Diabetes. IFMBE Proceedings, 2021, , 37-46.	0.2	1
106	Wavelet Phase Coherence Analysis Between the Respiratory Activity and the Microcirculation: The Effects of Type 1 Diabetes. IFMBE Proceedings, 2020, , 61-65.	0.2	1
107	Evolution of Communicating Individuals. Lecture Notes in Computer Science, 2010, , 328-335.	1.0	1
108	A mathematical model of the effect of metabolic control on joint mobility in young type 1 diabetic subjects. IFMBE Proceedings, 2017, , 355-359.	0.2	1

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109	Discrimination of Fatigue in Walking Patterns. IFMBE Proceedings, 2009, , 1275-1278.	0.2	1
110	Mortality Risk Associated with Diabetic Foot Complications in People with or without History of Diabetic Foot Hospitalizations. Journal of Clinical Medicine, 2022, 11, 2454.	1.0	1
111	Texture analysis and optical anisotropy measurements of leukocytes for early diagnostics of diabetes mellitus. , 0, , .		0
112	Real-Time Optical Manipulation of Cardiac Conduction in Intact Hearts. Biophysical Journal, 2018, 114, 166a.	0.2	0
113	Image Space Colonization Algorithm. Lecture Notes in Computer Science, 2006, , 356-367.	1.0	0
114	System for Tracing of blood transfusions and RFID. IFMBE Proceedings, 2007, , 1062-1065.	0.2	0
115	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
116	Differences in ionic currents between myocardial and Purkinje cells of canine heart. FASEB Journal, 2012, 26, 1053.5.	0.2	0
117	Multi-gaussian Decomposition of the Microvascular Pulse Detects Alterations in Type 1 Diabetes. IFMBE Proceedings, 2019, , 173-176.	0.2	0
118	Modeling of the Microvascular Pulse for Tracking the Vasoconstriction Response to Deep Inspiratory Gasp. IFMBE Proceedings, 2019, , 307-310.	0.2	0
119	A Robust Tool for Newborn Infant Cry Analysis. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2006, , .	0.5	0