

# Christophe L Herry

## List of Publications by Year in descending order

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Version: 2024-02-01

56  
papers

917  
citations

471061

17  
h-index

500791

28  
g-index

62  
all docs

62  
docs citations

62  
times ranked

1106  
citing authors

#	ARTICLE	IF	CITATIONS
1	Resumption of Cardiac Activity after Withdrawal of Life-Sustaining Measures. <i>New England Journal of Medicine</i> , 2021, 384, 345-352.	13.9	72
2	Determination of Sit-to-Stand Transfer Duration Using Bed and Floor Pressure Sequences. <i>IEEE Transactions on Biomedical Engineering</i> , 2009, 56, 2485-2492.	2.5	66
3	Heart beat classification from single-lead ECG using the synchrosqueezing transform. <i>Physiological Measurement</i> , 2017, 38, 171-187.	1.2	61
4	Do heart and respiratory rate variability improve prediction of extubation outcomes in critically ill patients?. <i>Critical Care</i> , 2014, 18, R65.	2.5	59
5	Quantitative assessment of pain-related thermal dysfunction through clinical digital infrared thermal imaging. <i>BioMedical Engineering OnLine</i> , 2004, 3, 19.	1.3	55
6	Does heart rate variability reflect the systemic inflammatory response in a fetal sheep model of lipopolysaccharide-induced sepsis?. <i>Physiological Measurement</i> , 2015, 36, 2089-2102.	1.2	50
7	Changes in heart rate variability during the induction and decay of heat acclimation. <i>European Journal of Applied Physiology</i> , 2014, 114, 2119-2128.	1.2	46
8	Non-invasive biomarkers of fetal brain development reflecting prenatal stress: An integrative multi-scale multi-species perspective on data collection and analysis. <i>Neuroscience and Biobehavioral Reviews</i> , 2020, 117, 165-183.	2.9	31
9	Heart rate variability during high heat stress: a comparison between young and older adults with and without Type 2 diabetes. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2016, 311, R669-R675.	0.9	30
10	Heart Rate Variability, Clinical and Laboratory Measures to Predict Future Deterioration in Patients Presenting With Sepsis. <i>Shock</i> , 2019, 51, 416-422.	1.0	30
11	First evidence that intrinsic fetal heart rate variability exists and is affected by hypoxic pregnancy. <i>Journal of Physiology</i> , 2020, 598, 249-263.	1.3	26
12	Can Monitoring Fetal Intestinal Inflammation Using Heart Rate Variability Analysis Signal Incipient Necrotizing Enterocolitis of the Neonate?. <i>Pediatric Critical Care Medicine</i> , 2016, 17, e165-e176.	0.2	24
13	Temporal Patterns in Sheep Fetal Heart Rate Variability Correlate to Systemic Cytokine Inflammatory Response: A Methodological Exploration of Monitoring Potential Using Complex Signals <i>Bioinformatics</i> . <i>PLoS ONE</i> , 2016, 11, e0153515.	1.1	23
14	Correlating multidimensional fetal heart rate variability analysis with acid-base balance at birth. <i>Physiological Measurement</i> , 2014, 35, L1-L12.	1.2	19
15	Vagal contributions to fetal heart rate variability: an omics approach. <i>Physiological Measurement</i> , 2019, 40, 065004.	1.2	19
16	Segmentation and classification of capnograms: application in respiratory variability analysis. <i>Physiological Measurement</i> , 2014, 35, 2343-2358.	1.2	18
17	Fractal Structure and Entropy Production within the Central Nervous System. <i>Entropy</i> , 2014, 16, 4497-4520.	1.1	18
18	Sampling frequency of fetal heart rate impacts the ability to predict pH and BE at birth: a retrospective multi-cohort study. <i>Physiological Measurement</i> , 2015, 36, L1-L12.	1.2	18

#	ARTICLE	IF	CITATIONS
19	Practice Variation in Spontaneous Breathing Trial Performance and Reporting. Canadian Respiratory Journal, 2016, 2016, 1-10.	0.8	18
20	Preliminary results of severity of illness measures of rheumatoid arthritis using infrared imaging. , 2009, , .		17
21	A Doubly Stochastic Change Point Detection Algorithm for Noisy Biological Signals. Frontiers in Physiology, 2017, 8, 1112.	1.3	15
22	Use of the low-frequency/high-frequency ratio of heart rate variability to predict short-term deterioration in emergency department patients with sepsis. Emergency Medicine Journal, 2018, 35, 96-102.	0.4	14
23	Fetal Cardiovascular Decompensation During Labor Predicted From the Individual Heart Rate Tracing: A Machine Learning Approach in Near-Term Fetal Sheep Model. Frontiers in Pediatrics, 2021, 9, 593889.	0.9	14
24	Fluid Loss during Exercise-Heat Stress Reduces Cardiac Vagal Autonomic Modulation. Medicine and Science in Sports and Exercise, 2020, 52, 362-369.	0.2	13
25	Do physiological and pathological stresses produce different changes in heart rate variability?. Frontiers in Physiology, 2013, 4, 197.	1.3	11
26	Age-related reductions in heart rate variability do not worsen during exposure to humid compared to dry heat: A secondary analysis. Temperature, 2019, 6, 341-345.	1.7	10
27	Machine learning model on heart rate variability metrics identifies asymptomatic toddlers exposed to zika virus during pregnancy. Physiological Measurement, 2021, 42, 055008.	1.2	10
28	Search for abnormal thermal patterns in clinical thermal infrared imaging. , 2008, , .		8
29	Localization of Synchronous Cortical Neural Sources. IEEE Transactions on Biomedical Engineering, 2013, 60, 770-780.	2.5	8
30	Heart rate variability in older workers during work under the Threshold Limit Values for heat exposure. American Journal of Industrial Medicine, 2020, 63, 787-795.	1.0	8
31	Heart rate variability in older men on the day following prolonged work in the heat. Journal of Occupational and Environmental Hygiene, 2020, 17, 383-389.	0.4	8
32	Helpful Only When Elevated: Initial Serum Lactate in Stable Emergency Department Patients with Sepsis Is Specific, but Not Sensitive for Future Deterioration. Journal of Emergency Medicine, 2018, 54, 766-773.	0.3	7
33	Heart rate variability dynamics during treatment for exertional heat strain when immediate response is not possible. Experimental Physiology, 2019, 104, 845-854.	0.9	7
34	Age alters cardiac autonomic modulations during and following exercise-induced heat stress in females. Temperature, 2018, 5, 184-196.	1.7	6
35	Age differences in cardiac autonomic regulation during intermittent exercise in the heat. European Journal of Applied Physiology, 2020, 120, 453-465.	1.2	6
36	Assessment of Abdominal Skin Temperature Change in Premature Newborns with NEC Compared to Healthy Controls. IFMBE Proceedings, 2011, , 191-194.	0.2	6

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37	Infrared Imaging and Classification of Neonates with Necrotising Enterocolitis. IFMBE Proceedings, 2013, , 1309-1312.	0.2	6
38	Cardiac autonomic modulation in type 1 diabetes during exercise-heat stress. Acta Diabetologica, 2020, 57, 959-963.	1.2	5
39	Effect of exercise-heat acclimation on cardiac autonomic modulation in type 2 diabetes: a pilot study. Applied Physiology, Nutrition and Metabolism, 2021, 46, 284-287.	0.9	5
40	Feasibility of implementing Extubation Advisor, a clinical decision support tool to improve extubation decision-making in the ICU: a mixed-methods observational study. BMJ Open, 2021, 11, e045674.	0.8	5
41	Diminished heart rate variability in type 2 diabetes is exacerbated during exercise-heat stress. Acta Diabetologica, 2020, 57, 899-901.	1.2	5
42	Improving the Detection and Localization of Anatomical Landmark Points in Infrared Images Using Symmetry and Region Specific Constraints. , 2008, , .		4
43	Monitoring Variability and Complexity at the Bedside. , 2016, , 91-105.		4
44	Predicting Time to Death After Withdrawal of Life-Sustaining Measures Using Vital Sign Variability: Derivation and Validation. , 2022, 4, e0675.		4
45	Multimodal pathophysiological dataset of gradual cerebral ischemia in a cohort of juvenile pigs. Scientific Data, 2021, 8, 4.	2.4	3
46	Continuous Multiorgan Variability Monitoring in Critically Ill Patients: Complexity Science at the Bedside. , 2013, , 467-481.		3
47	The impact of age, type 2 diabetes and hypertension on heart rate variability during rest and exercise at increasing levels of heat stress. European Journal of Applied Physiology, 2022, 122, 1249-1259.	1.2	3
48	Heart rate variability in relation to stress in the Asian elephant ( <i>Elephas maximus</i> ). Canadian Veterinary Journal, 2016, 57, 289-92.	0.0	2
49	Exploring the Effects of Yoga Therapy on Heart Rate Variability and Patient-Reported Outcomes After Cancer Treatment: A Study Protocol. Integrative Cancer Therapies, 2022, 21, 153473542210755.	0.8	2
50	Effects of sex and wet-bulb globe temperature on heart rate variability during prolonged moderate-intensity exercise: a secondary analysis. Applied Physiology, Nutrition and Metabolism, 2022, 47, 725-736.	0.9	2
51	Segmentation of knee injury swelling on infrared images. Proceedings of SPIE, 2011, , .	0.8	1
52	Early Warning of Infection in Patients Undergoing Hematopoietic Stem Cell Transplantation Using Heart Rate Variability and Serum Biomarkers. Transplantation and Cellular Therapy, 2021, , .	0.6	1
53	Transforming Monitoring and Improving Care with Variability-Derived Clinical Decision Support. , 2018, , 73-82.		1
54	Comment on: "Helpful Only When Elevated: Initial Serum Lactate in Stable Emergency Department Patients With Sepsis Is Specific, but Not Sensitive for Future Deterioration". Journal of Emergency Medicine, 2019, 56, 228-229.	0.3	0

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55	Predictive performance of the quick Sepsis-related Organ Failure Assessment in a population of emergency department patients with sepsis. <i>European Journal of Emergency Medicine</i> , 2019, 26, 71-73.	0.5	0
56	Variability Predictors of Vasospasm in Subarachnoid Hemorrhage: A Feasibility Study. <i>Canadian Journal of Neurological Sciences</i> , 2021, 48, 226-232.	0.3	0