

Christopher C Mayer

List of Publications by Year in descending order

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Version: 2024-02-01

57
papers

1,828
citations

489802

18
h-index

312153

41
g-index

59
all docs

59
docs citations

59
times ranked

2273
citing authors

#	ARTICLE	IF	CITATIONS
1	Electrocardiographic parameters of left ventricular hypertrophy and prediction of mortality in hemodialysis patients. <i>Journal of Nephrology</i> , 2022, 35, 233-244.	0.9	4
2	Twenty-Four-Hour Central (Aortic) Systolic Blood Pressure: Reference Values and Dipping Patterns in Untreated Individuals. <i>Hypertension</i> , 2022, 79, 251-260.	1.3	13
3	Usability testing of the first prototype of the Memento system: a technological device to promote an independent living in people with dementia. <i>Disability and Rehabilitation: Assistive Technology</i> , 2022, , 1-10.	1.3	1
4	Association of peridialytic, intradialytic, scheduled interdialytic and ambulatory BP recordings with cardiovascular events in hemodialysis patients. <i>Journal of Nephrology</i> , 2022, 35, 943-954.	0.9	3
5	Feasibility of Dialysate Bolus-Based Absolute Blood Volume Estimation in Maintenance Hemodialysis Patients. <i>Frontiers in Medicine</i> , 2022, 9, 801089.	1.2	3
6	Impact of the COVID-19 lockdown on system usage of an innovative care support system and the mood of older adults. <i>International Journal of Geriatric Psychiatry</i> , 2022, 37, .	1.3	1
7	Medical Device Regulation: Should We Care About It?. <i>Artery Research</i> , 2022, 28, 55-60.	0.3	3
8	Ambulatory measurement of pulsatile hemodynamics. , 2022, , 125-135.		0
9	Attractor Reconstruction for Quantifying the Arterial Pulse Wave Morphology During Device-Guided Slow Breathing. <i>Cardiovascular Engineering and Technology</i> , 2022, 13, 939-949.	0.7	2
10	Twenty-Four-Hour Pulsatile Hemodynamics Predict Brachial Blood Pressure Response to Renal Denervation in the SPYRAL HTN-OFF MED Trial. <i>Hypertension</i> , 2022, 79, 1506-1514.	1.3	10
11	Regulatory Requirements For Medical Devices And Vascular Ageing: An Overview. <i>Heart Lung and Circulation</i> , 2021, 30, 1658-1666.	0.2	3
12	Leveraging the potential of machine learning for assessing vascular ageing: state-of-the-art and future research. <i>European Heart Journal Digital Health</i> , 2021, 2, 676-690.	0.7	10
13	U-Shaped Association of the Heart Rate Variability Triangular Index and Mortality in Hemodialysis Patients With Atrial Fibrillation. <i>Frontiers in Cardiovascular Medicine</i> , 2021, 8, 751052.	1.1	1
14	Heart Failure and Atrial Fibrillation Modify the Associations of Nocturnal Blood Pressure Dipping Pattern With Mortality in Hemodialysis Patients. <i>Hypertension</i> , 2020, 76, 1231-1239.	1.3	3
15	Cardiovascular Mortality Can Be Predicted by Heart Rate Turbulence in Hemodialysis Patients. <i>Frontiers in Physiology</i> , 2020, 11, 77.	1.3	11
16	Comparison of 24-hour and Office Pulse Wave Velocity for Prediction of Mortality in Hemodialysis Patients. <i>American Journal of Nephrology</i> , 2019, 49, 317-327.	1.4	24
17	Impaired Retinal Vessel Dilation Predicts Mortality in End-Stage Renal Disease. <i>Circulation Research</i> , 2019, 124, 1796-1807.	2.0	44
18	Weak within-individual association of blood pressure and pulse wave velocity in hemodialysis is related to adverse outcomes. <i>Journal of Hypertension</i> , 2019, 37, 2200-2208.	0.3	10

#	ARTICLE	IF	CITATIONS
19	Aortic systolic pressure derived with different calibration methods. Blood Pressure Monitoring, 2018, 23, 134-140.	0.4	22
20	Association of Ambulatory Blood Pressure with All-Cause and Cardiovascular Mortality in Hemodialysis Patients: Effects of Heart Failure and Atrial Fibrillation. Journal of the American Society of Nephrology: JASN, 2018, 29, 2409-2417.	3.0	24
21	Acetate-free, citrate-acidified bicarbonate dialysis improves serum calcification propensity—a preliminary study. Nephrology Dialysis Transplantation, 2018, 33, 2043-2051.	0.4	28
22	Implementation and verification of an enhanced algorithm for the automatic computation of RR-interval series derived from 24-h 12-lead ECGs. Physiological Measurement, 2017, 38, 1-14.	1.2	24
23	Worsening calcification propensity precedes all-cause and cardiovascular mortality in haemodialyzed patients. Scientific Reports, 2017, 7, 13368.	1.6	40
24	Long-term monitoring of cardiorespiratory patterns in drug-resistant epilepsy. Epilepsia, 2017, 58, 77-84.	2.6	43
25	Challenging Recently Published Parameter Sets for Entropy Measures in Risk Prediction for End-Stage Renal Disease Patients. Entropy, 2017, 19, 582.	1.1	2
26	Usability Matters. Lecture Notes in Computer Science, 2017, , 384-394.	1.0	4
27	The Effect of Threshold Values and Weighting Factors on the Association between Entropy Measures and Mortality after Myocardial Infarction in the Cardiac Arrhythmia Suppression Trial (CAST). Entropy, 2016, 18, 129.	1.1	18
28	A comparative study of systems for the design of flexible user interfaces. Journal of Ambient Intelligence and Smart Environments, 2016, 8, 125-148.	0.8	8
29	Rationale and study design of the prospective, longitudinal, observational cohort study of risk stratification in end-stage renal disease (ISAR) study. BMC Nephrology, 2016, 17, 161.	0.8	21
30	Personalization in the User Interaction Design. Lecture Notes in Computer Science, 2016, , 198-207.	1.0	3
31	Simulation of Physiologic Ectopic Beats in Heartbeat Intervals to Validate Algorithms. IFAC-PapersOnLine, 2015, 48, 123-128.	0.5	1
32	A framework for evaluating Ambient Assisted Living technologies and the experience of the universAAL project. Journal of Ambient Intelligence and Smart Environments, 2015, 7, 329-352.	0.8	20
33	Feasibility of oscillometric aortic pressure and stiffness assessment using the VaSera VS-1500. Blood Pressure Monitoring, 2015, 20, 273-279.	0.4	8
34	Assessment of Model Based (Input) Impedance, Pulse Wave Velocity, and Wave Reflection in the Asklepios Cohort. PLoS ONE, 2015, 10, e0141656.	1.1	22
35	Pulse wave intensity and ECG: A multisensor approach for the risk assessment in systolic heart failure. , 2015, , .		0
36	The UniversAAL Platform for AAL (Ambient Assisted Living). Journal of Intelligent Systems, 2015, 24, 301-319.	1.2	21

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37	Nonlinear Methods in Heart Rate Variability: Can they Distinguish between Nonpathological and Pathological Subjects?. SNE Simulation Notes Europe, 2015, 25, .	0.2	2
38	Talking Faces in Lab and Field Trials. Lecture Notes in Computer Science, 2015, , 134-144.	1.0	3
39	Entropy-Based Data Mining on the Example of Cardiac Arrhythmia Suppression. Lecture Notes in Computer Science, 2014, , 574-585.	1.0	0
40	Selection of entropy-measure parameters for knowledge discovery in heart rate variability data. BMC Bioinformatics, 2014, 15, S2.	1.2	70
41	A Practical Solution for the Automatic Generation of User Interfaces – What Are the Benefits of a Practical Solution for the Automatic Generation of User Interfaces?. Lecture Notes in Computer Science, 2014, , 445-456.	1.0	2
42	On Entropy-Based Data Mining. Lecture Notes in Computer Science, 2014, , 209-226.	1.0	28
43	Wave reflection quantification based on pressure waveforms alone – Methods, comparison, and clinical covariates. Computer Methods and Programs in Biomedicine, 2013, 109, 250-259.	2.6	97
44	Increasing Stability of Real-Time Pulse Wave Velocity Estimation by Combining Established and New Approaches. , 2013, , .		4
45	Oscillometric estimation of aortic pulse wave velocity. Blood Pressure Monitoring, 2013, 18, 173-176.	0.4	235
46	Calculation of arterial characteristic impedance: a comparison using different blood flow models. Mathematical and Computer Modelling of Dynamical Systems, 2013, 19, 319-330.	1.4	21
47	universAAL: Provisioning Platform for AAL Services. Advances in Intelligent Systems and Computing, 2013, , 105-112.	0.5	10
48	Online and Offline Determination of QT and PR Interval and QRS Duration in Electrocardiography. Lecture Notes in Computer Science, 2013, , 1-15.	1.0	13
49	User Interfaces for Older Adults. Lecture Notes in Computer Science, 2013, , 142-150.	1.0	5
50	Effects of Different Blood Flow Models on the Determination of Arterial Characteristic Impedance. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 918-923.	0.4	2
51	universAAL – An Open and Consolidated AAL Platform. , 2011, , 127-140.		64
52	Intelligent multichannel sensors for pulse wave analysis. Mathematics and Computers in Simulation, 2011, 82, 483-493.	2.4	4
53	Validation of a Brachial Cuff-Based Method for Estimating Central Systolic Blood Pressure. Hypertension, 2011, 58, 825-832.	1.3	380
54	A new oscillometric method for pulse wave analysis: comparison with a common tonometric method. Journal of Human Hypertension, 2010, 24, 498-504.	1.0	313

#	ARTICLE	IF	CITATIONS
55	A modular platform for event recognition in smart homes. , 2010, , .		26
56	Modeling arterial and left ventricular coupling for non-invasive measurements. Simulation Modelling Practice and Theory, 2008, 16, 988-997.	2.2	73
57	Optimization of media processing workflows with adaptive operator behaviors. Multimedia Tools and Applications, 2007, 33, 245-272.	2.6	7