

# Christopher C Mayer

## List of Publications by Year in descending order

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Version: 2024-02-01

57  
papers

1,828  
citations

430874

18  
h-index

276875

41  
g-index

59  
all docs

59  
docs citations

59  
times ranked

2131  
citing authors

#	ARTICLE	IF	CITATIONS
1	Validation of a Brachial Cuff-Based Method for Estimating Central Systolic Blood Pressure. Hypertension, 2011, 58, 825-832.	2.7	380
2	A new oscillometric method for pulse wave analysis: comparison with a common tonometric method. Journal of Human Hypertension, 2010, 24, 498-504.	2.2	313
3	Oscillometric estimation of aortic pulse wave velocity. Blood Pressure Monitoring, 2013, 18, 173-176.	0.8	235
4	Wave reflection quantification based on pressure waveforms alone—Methods, comparison, and clinical covariates. Computer Methods and Programs in Biomedicine, 2013, 109, 250-259.	4.7	97
5	Modeling arterial and left ventricular coupling for non-invasive measurements. Simulation Modelling Practice and Theory, 2008, 16, 988-997.	3.8	73
6	Selection of entropy-measure parameters for knowledge discovery in heart rate variability data. BMC Bioinformatics, 2014, 15, S2.	2.6	70
7	universAAL — An Open and Consolidated AAL Platform. , 2011, , 127-140.		64
8	Impaired Retinal Vessel Dilation Predicts Mortality in End-Stage Renal Disease. Circulation Research, 2019, 124, 1796-1807.	4.5	44
9	Long-term monitoring of cardiorespiratory patterns in drug-resistant epilepsy. Epilepsia, 2017, 58, 77-84.	5.1	43
10	Worsening calcification propensity precedes all-cause and cardiovascular mortality in haemodialyzed patients. Scientific Reports, 2017, 7, 13368.	3.3	40
11	Acetate-free, citrate-acidified bicarbonate dialysis improves serum calcification propensity—a preliminary study. Nephrology Dialysis Transplantation, 2018, 33, 2043-2051.	0.7	28
12	On Entropy-Based Data Mining. Lecture Notes in Computer Science, 2014, , 209-226.	1.3	28
13	A modular platform for event recognition in smart homes. , 2010, , .		26
14	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.	2.1	24
15	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.	6.1	24
16	Comparison of 24-hour and Office Pulse Wave Velocity for Prediction of Mortality in Hemodialysis Patients. American Journal of Nephrology, 2019, 49, 317-327.	3.1	24
17	Assessment of Model Based (Input) Impedance, Pulse Wave Velocity, and Wave Reflection in the Asklepios Cohort. PLoS ONE, 2015, 10, e0141656.	2.5	22
18	Aortic systolic pressure derived with different calibration methods. Blood Pressure Monitoring, 2018, 23, 134-140.	0.8	22

#	ARTICLE	IF	CITATIONS
19	Calculation of arterial characteristic impedance: a comparison using different blood flow models. <i>Mathematical and Computer Modelling of Dynamical Systems</i> , 2013, 19, 319-330.	2.2	21
20	The UniversAAL Platform for AAL (Ambient Assisted Living). <i>Journal of Intelligent Systems</i> , 2015, 24, 301-319.	1.6	21
21	Rationale and study design of the prospective, longitudinal, observational cohort study "Stratification in end-stage renal disease" (ISAR) study. <i>BMC Nephrology</i> , 2016, 17, 161.	1.8	21
22	A framework for evaluating Ambient Assisted Living technologies and the experience of the UniversAAL project. <i>Journal of Ambient Intelligence and Smart Environments</i> , 2015, 7, 329-352.	1.4	20
23	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). <i>Entropy</i> , 2016, 18, 129.	2.2	18
24	Online and Offline Determination of QT and PR Interval and QRS Duration in Electrocardiography. <i>Lecture Notes in Computer Science</i> , 2013, , 1-15.	1.3	13
25	Twenty-Four-Hour Central (Aortic) Systolic Blood Pressure: Reference Values and Dipping Patterns in Untreated Individuals. <i>Hypertension</i> , 2022, 79, 251-260.	2.7	13
26	Cardiovascular Mortality Can Be Predicted by Heart Rate Turbulence in Hemodialysis Patients. <i>Frontiers in Physiology</i> , 2020, 11, 77.	2.8	11
27	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.	0.5	10
28	universAAL: Provisioning Platform for AAL Services. <i>Advances in Intelligent Systems and Computing</i> , 2013, , 105-112.	0.6	10
29	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.	1.7	10
30	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.	2.7	10
31	Feasibility of oscillometric aortic pressure and stiffness assessment using the VaSera VS-1500. <i>Blood Pressure Monitoring</i> , 2015, 20, 273-279.	0.8	8
32	A comparative study of systems for the design of flexible user interfaces. <i>Journal of Ambient Intelligence and Smart Environments</i> , 2016, 8, 125-148.	1.4	8
33	Optimization of media processing workflows with adaptive operator behaviors. <i>Multimedia Tools and Applications</i> , 2007, 33, 245-272.	3.9	7
34	User Interfaces for Older Adults. <i>Lecture Notes in Computer Science</i> , 2013, , 142-150.	1.3	5
35	Intelligent multichannel sensors for pulse wave analysis. <i>Mathematics and Computers in Simulation</i> , 2011, 82, 483-493.	4.4	4
36	Increasing Stability of Real-Time Pulse Wave Velocity Estimation by Combining Established and New Approaches. , 2013, , .		4

#	ARTICLE	IF	CITATIONS
37	Electrocardiographic parameters of left ventricular hypertrophy and prediction of mortality in hemodialysis patients. <i>Journal of Nephrology</i> , 2022, 35, 233-244.	2.0	4
38	Usability Matters. <i>Lecture Notes in Computer Science</i> , 2017, , 384-394.	1.3	4
39	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.	2.7	3
40	Regulatory Requirements For Medical Devices And Vascular Ageing: An Overview. <i>Heart Lung and Circulation</i> , 2021, 30, 1658-1666.	0.4	3
41	Talking Faces in Lab and Field Trials. <i>Lecture Notes in Computer Science</i> , 2015, , 134-144.	1.3	3
42	Personalization in the User Interaction Design. <i>Lecture Notes in Computer Science</i> , 2016, , 198-207.	1.3	3
43	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.	2.0	3
44	Feasibility of Dialysate Bolus-Based Absolute Blood Volume Estimation in Maintenance Hemodialysis Patients. <i>Frontiers in Medicine</i> , 2022, 9, 801089.	2.6	3
45	Medical Device Regulation: Should We Care About It?. <i>Artery Research</i> , 2022, 28, 55-60.	0.6	3
46	Effects of Different Blood Flow Models on the Determination of Arterial Characteristic Impedance. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2012, 45, 918-923.	0.4	2
47	Challenging Recently Published Parameter Sets for Entropy Measures in Risk Prediction for End-Stage Renal Disease Patients. <i>Entropy</i> , 2017, 19, 582.	2.2	2
48	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?. <i>Lecture Notes in Computer Science</i> , 2014, , 445-456.	1.3	2
49	Nonlinear Methods in Heart Rate Variability: Can they Distinguish between Nonpathological and Pathological Subjects?. <i>SNE Simulation Notes Europe</i> , 2015, 25, .	0.3	2
50	Attractor Reconstruction for Quantifying the Arterial Pulse Wave Morphology During Device-Guided Slow Breathing. <i>Cardiovascular Engineering and Technology</i> , 2022, 13, 939-949.	1.6	2
51	Simulation of Physiologic Ectopic Beats in Heartbeat Intervals to Validate Algorithms. <i>IFAC-PapersOnLine</i> , 2015, 48, 123-128.	0.9	1
52	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.	2.4	1
53	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.	2.2	1
54	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, .	2.7	1

#	ARTICLE	IF	CITATIONS
55	Entropy-Based Data Mining on the Example of Cardiac Arrhythmia Suppression. Lecture Notes in Computer Science, 2014, , 574-585.	1.3	0
56	Pulse wave intensity and ECG: A multisensor approach for the risk assessment in systolic heart failure. , 2015, , .		0
57	Ambulatory measurement of pulsatile hemodynamics. , 2022, , 125-135.		0