

# Christopher C Mayer

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

56  
papers

1,324  
citations

16  
h-index

36  
g-index

59  
ext. papers

1,594  
ext. citations

3.3  
avg, IF

3.99  
L-index

#	Paper	IF	Citations
56	Usability testing of the first prototype of the Memento <sup>2</sup> system: a technological device to promote an independent living in people with dementia.. <i>Disability and Rehabilitation: Assistive Technology</i> , <b>2022</b> , 1-10	1.8	0
55	Association of peridialytic, intradialytic, scheduled interdialytic and ambulatory BP recordings with cardiovascular events in hemodialysis patients.. <i>Journal of Nephrology</i> , <b>2022</b> , 35, 943	4.8	1
54	Feasibility of Dialysate Bolus-Based Absolute Blood Volume Estimation in Maintenance Hemodialysis Patients.. <i>Frontiers in Medicine</i> , <b>2022</b> , 9, 801089	4.9	0
53	Twenty-Four-Hour Central (Aortic) Systolic Blood Pressure: Reference Values and Dipping Patterns in Untreated Individuals. <i>Hypertension</i> , <b>2022</b> , 79, 251-260	8.5	2
52	Medical Device Regulation: Should We Care About It?. <i>Artery Research</i> , <b>2022</b> , 1-6	2.2	0
51	Ambulatory measurement of pulsatile hemodynamics <b>2022</b> , 125-135		
50	Twenty-Four-Hour Pulsatile Hemodynamics Predict Brachial Blood Pressure Response to Renal Denervation in the SPYRAL HTN-OFF MED Trial.. <i>Hypertension</i> , <b>2022</b> , 101161	8.5	1
49	U-Shaped Association of the Heart Rate Variability Triangular Index and Mortality in Hemodialysis Patients With Atrial Fibrillation.. <i>Frontiers in Cardiovascular Medicine</i> , <b>2021</b> , 8, 751052	5.4	0
48	Leveraging the potential of machine learning for assessing vascular ageing: state-of-the-art and future research.. <i>European Heart Journal Digital Health</i> , <b>2021</b> , 2, 676-690	2.3	0
47	Electrocardiographic parameters of left ventricular hypertrophy and prediction of mortality in hemodialysis patients. <i>Journal of Nephrology</i> , <b>2021</b> , 1	4.8	0
46	Regulatory Requirements For Medical Devices And Vascular Ageing: An Overview. <i>Heart Lung and Circulation</i> , <b>2021</b> , 30, 1658-1666	1.8	1
45	Cardiovascular Mortality Can Be Predicted by Heart Rate Turbulence in Hemodialysis Patients. <i>Frontiers in Physiology</i> , <b>2020</b> , 11, 77	4.6	3
44	Heart Failure and Atrial Fibrillation Modify the Associations of Nocturnal Blood Pressure Dipping Pattern With Mortality in Hemodialysis Patients. <i>Hypertension</i> , <b>2020</b> , 76, 1231-1239	8.5	1
43	Comparison of 24-hour and Office Pulse Wave Velocity for Prediction of Mortality in Hemodialysis Patients. <i>American Journal of Nephrology</i> , <b>2019</b> , 49, 317-327	4.6	15
42	Impaired Retinal Vessel Dilation Predicts Mortality in End-Stage Renal Disease. <i>Circulation Research</i> , <b>2019</b> ,	15.7	23
41	Weak within-individual association of blood pressure and pulse wave velocity in hemodialysis is related to adverse outcomes. <i>Journal of Hypertension</i> , <b>2019</b> , 37, 2200-2208	1.9	8
40	Aortic systolic pressure derived with different calibration methods: associations to brachial systolic pressure in the general population. <i>Blood Pressure Monitoring</i> , <b>2018</b> , 23, 134-140	1.3	11

39	Association of Ambulatory Blood Pressure with All-Cause and Cardiovascular Mortality in Hemodialysis Patients: Effects of Heart Failure and Atrial Fibrillation. <i>Journal of the American Society of Nephrology: JASN</i> , <b>2018</b> , 29, 2409-2417	12.7	16
38	Acetate-free, citrate-acidified bicarbonate dialysis improves serum calcification propensity-a preliminary study. <i>Nephrology Dialysis Transplantation</i> , <b>2018</b> , 33, 2043-2051	4.3	16
37	Implementation and verification of an enhanced algorithm for the automatic computation of RR-interval series derived from 24 h 12-lead ECGs. <i>Physiological Measurement</i> , <b>2017</b> , 38, 1-14	2.9	3
36	Worsening calcification propensity precedes all-cause and cardiovascular mortality in haemodialyzed patients. <i>Scientific Reports</i> , <b>2017</b> , 7, 13368	4.9	25
35	Long-term monitoring of cardiorespiratory patterns in drug-resistant epilepsy. <i>Epilepsia</i> , <b>2017</b> , 58, 77-846.4		28
34	Challenging Recently Published Parameter Sets for Entropy Measures in Risk Prediction for End-Stage Renal Disease Patients. <i>Entropy</i> , <b>2017</b> , 19, 582	2.8	2
33	Usability Matters. <i>Lecture Notes in Computer Science</i> , <b>2017</b> , 384-394	0.9	3
32	Rationale and study design of the prospective, longitudinal, observational cohort study "rISK strAtification in end-stage renal disease" (ISAR) study. <i>BMC Nephrology</i> , <b>2016</b> , 17, 161	2.7	17
31	Personalization in the User Interaction Design. <i>Lecture Notes in Computer Science</i> , <b>2016</b> , 198-207	0.9	1
30	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> , <b>2016</b> , 18, 129	2.8	16
29	A comparative study of systems for the design of flexible user interfaces. <i>Journal of Ambient Intelligence and Smart Environments</i> , <b>2016</b> , 8, 125-148	2.2	8
28	The UniversAAL Platform for AAL (Ambient Assisted Living). <i>Journal of Intelligent Systems</i> , <b>2015</b> , 24, 301-319	3.9	20
27	Simulation of Physiologic Ectopic Beats in Heartbeat Intervals to Validate Algorithms. <i>IFAC-PapersOnLine</i> , <b>2015</b> , 48, 123-128	0.7	1
26	A framework for evaluating Ambient Assisted Living technologies and the experience of the UniversAAL project. <i>Journal of Ambient Intelligence and Smart Environments</i> , <b>2015</b> , 7, 329-352	2.2	16
25	Feasibility of oscillometric aortic pressure and stiffness assessment using the VaSera VS-1500: comparison with a common tonometric method. <i>Blood Pressure Monitoring</i> , <b>2015</b> , 20, 273-9	1.3	7
24	Assessment of Model Based (Input) Impedance, Pulse Wave Velocity, and Wave Reflection in the Asklepios Cohort. <i>PLoS ONE</i> , <b>2015</b> , 10, e0141656	3.7	16
23	Nonlinear Methods in Heart Rate Variability: Can they Distinguish between Nonpathological and Pathological Subjects?. <i>SNE Simulation Notes Europe</i> , <b>2015</b> , 25,	0.5	2
22	Interaction Model-Based User Interfaces: Two Approaches, One Goal - Comparison of Two User Interface Generation Approaches Applying Interaction Models. <i>Communications in Computer and Information Science</i> , <b>2015</b> , 185-197	0.3	3

21	Talking Faces in Lab and Field Trials. <i>Lecture Notes in Computer Science</i> , <b>2015</b> , 134-144	0.9	2
20	Entropy-Based Data Mining on the Example of Cardiac Arrhythmia Suppression. <i>Lecture Notes in Computer Science</i> , <b>2014</b> , 574-585	0.9	
19	Selection of entropy-measure parameters for knowledge discovery in heart rate variability data. <i>BMC Bioinformatics</i> , <b>2014</b> , 15 Suppl 6, S2	3.6	57
18	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> , <b>2014</b> , 445-456	0.9	2
17	On Entropy-Based Data Mining. <i>Lecture Notes in Computer Science</i> , <b>2014</b> , 209-226	0.9	18
16	Wave reflection quantification based on pressure waveforms alone--methods, comparison, and clinical covariates. <i>Computer Methods and Programs in Biomedicine</i> , <b>2013</b> , 109, 250-9	6.9	66
15	Increasing Stability of Real-Time Pulse Wave Velocity Estimation by Combining Established and New Approaches <b>2013</b> ,		4
14	Oscillometric estimation of aortic pulse wave velocity: comparison with intra-aortic catheter measurements. <i>Blood Pressure Monitoring</i> , <b>2013</b> , 18, 173-6	1.3	179
13	Calculation of arterial characteristic impedance: a comparison using different blood flow models. <i>Mathematical and Computer Modelling of Dynamical Systems</i> , <b>2013</b> , 19, 319-330	1	17
12	universAAL: Provisioning Platform for AAL Services. <i>Advances in Intelligent Systems and Computing</i> , <b>2013</b> , 105-112	0.4	7
11	Online and Offline Determination of QT and PR Interval and QRS Duration in Electrocardiography. <i>Lecture Notes in Computer Science</i> , <b>2013</b> , 1-15	0.9	10
10	User Interfaces for Older Adults. <i>Lecture Notes in Computer Science</i> , <b>2013</b> , 142-150	0.9	5
9	Effects of Different Blood Flow Models on the Determination of Arterial Characteristic Impedance. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2012</b> , 45, 918-923		2
8	AALuis, a User Interface Layer That Brings Device Independence to Users of AAL Systems. <i>Lecture Notes in Computer Science</i> , <b>2012</b> , 650-657	0.9	5
7	universAAL [An Open and Consolidated AAL Platform <b>2011</b> , 127-140		54
6	Intelligent multichannel sensors for pulse wave analysis. <i>Mathematics and Computers in Simulation</i> , <b>2011</b> , 82, 483-493	3.3	1
5	Validation of a brachial cuff-based method for estimating central systolic blood pressure. <i>Hypertension</i> , <b>2011</b> , 58, 825-32	8.5	295
4	A new oscillometric method for pulse wave analysis: comparison with a common tonometric method. <i>Journal of Human Hypertension</i> , <b>2010</b> , 24, 498-504	2.6	257

3	A modular platform for event recognition in smart homes <b>2010</b> ,		17
2	Modeling arterial and left ventricular coupling for non-invasive measurements. <i>Simulation Modelling Practice and Theory</i> , <b>2008</b> , 16, 988-997	3.9	56
1	Optimization of media processing workflows with adaptive operator behaviors. <i>Multimedia Tools and Applications</i> , <b>2007</b> , 33, 245-272	2.5	4