

# Mateo Aboy

## List of Publications by Year in descending order

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Version: 2024-02-01

72  
papers

2,139  
citations

293460

24  
h-index

263392

45  
g-index

72  
all docs

72  
docs citations

72  
times ranked

2465  
citing authors

#	ARTICLE	IF	CITATIONS
1	European patent protection for medical uses of known products and drug repurposing. Nature Biotechnology, 2022, 40, 465-471.	9.4	2
2	Standard contractual clauses for cross-border transfers of health data after <i>Schrems II</i>. Journal of Law and the Biosciences, 2021, 8, Isab007.	0.8	6
3	The Patentability of Computer-Implemented Simulations and Implications for Computer-Implemented Inventions (CIIs). Journal of Intellectual Property Law and Practice, 2021, 16, 633-635.	0.2	1
4	Has the EU Incentive for Drug Repositioning Been Effective? An Empirical Analysis of the â€œ+1â€œ Regulatory Exclusivity. IIC International Review of Intellectual Property and Competition Law, 2021, 52, 825-851.	0.3	1
5	Mapping the European patent landscape for medical uses of known products. Nature Biotechnology, 2021, 39, 1336-1343.	9.4	3
6	International transfers of health data between the EU and USA: a sector-specific approach for the USA to ensure an â€adequateâ€™ level of protection. Journal of Law and the Biosciences, 2020, 7, Isaa055.	0.8	14
7	The FDA De Novo medical device pathway, patents and anticompetition. Nature Biotechnology, 2020, 38, 1028-1029.	9.4	3
8	COVID-19 contact tracing apps: a stress test for privacy, the GDPR, and data protection regimes. Journal of Law and the Biosciences, 2020, 7, Isaa034.	0.8	85
9	One year after Vanda, are diagnostics patents transforming into methods of treatment to overcome Mayo-based rejections?. Nature Biotechnology, 2020, 38, 279-283.	9.4	2
10	Reply to C.D. Richter. European Journal of Human Genetics, 2020, 28, 537-538.	1.4	0
11	Regulatory responses to medical machine learning. Journal of Law and the Biosciences, 2020, 7, Isaa002.	0.8	42
12	A Two-Stage Tremor Detection Algorithm for Wearable Inertial Sensors During Normal Daily Activities. , 2019, 2019, 2535-2538.		6
13	How does emerging patent case law in the US and Europe affect precision medicine?. Nature Biotechnology, 2019, 37, 1118-1125.	9.4	11
14	Mayoâ€™s impact on patent applications related to biotechnology, diagnostics and personalized medicine. Nature Biotechnology, 2019, 37, 513-518.	9.4	10
15	Continental drift? Do European clinical genetic testing laboratories have a patent problem?. European Journal of Human Genetics, 2019, 27, 997-1007.	1.4	8
16	Was the Myriad decision a 'surgical strike' on isolated DNA patents, or does it have wider impacts?. Nature Biotechnology, 2018, 36, 1146-1149.	9.4	11
17	Inertial and time-of-arrival ranging sensor fusion. Gait and Posture, 2017, 54, 1-7.	0.6	10
18	After Myriad, what makes a gene patent claim 'markedly different' from nature?. Nature Biotechnology, 2017, 35, 820-825.	9.4	18

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19	A novel particle filtering method for estimation of pulse pressure variation during spontaneous breathing. <i>BioMedical Engineering OnLine</i> , 2016, 15, 94.	1.3	1
20	Myriad's impact on gene patents. <i>Nature Biotechnology</i> , 2016, 34, 1119-1123.	9.4	14
21	Review of Recent Patents in the Area of Intelligent, Adaptive, Wireless and GPS Enabled HVAC Control Devices. <i>Recent Patents on Engineering</i> , 2016, 10, 175-186.	0.3	1
22	Review of Recent Patents on Carbon Nanotube Based Electrodes for use in Supercapacitor Applications. <i>Recent Patents on Engineering</i> , 2015, 9, 21-28.	0.3	0
23	Review of Recent Patents on Anaerobic Digester Gas for Fuel Cell Applications. <i>Recent Patents on Engineering</i> , 2015, 9, 113-123.	0.3	1
24	Pulse pressure variation tracking using sequential Monte Carlo methods. <i>Biomedical Signal Processing and Control</i> , 2013, 8, 333-340.	3.5	3
25	Clinical Application of a Novel Automatic Algorithm for Actigraphy-Based Activity and Rest Period Identification to Accurately Determine Awake and Asleep Ambulatory Blood Pressure Parameters and Cardiovascular Risk. <i>Chronobiology International</i> , 2013, 30, 43-54.	0.9	26
26	Influence of QRS complex detection errors on entropy algorithms. Application to heart rate variability discrimination. <i>Computer Methods and Programs in Biomedicine</i> , 2013, 110, 2-11.	2.6	15
27	Review of Recent Patents on Flexible Photovoltaic Applications in Portable and Niche Markets. <i>Recent Patents on Engineering</i> , 2013, 7, 153-166.	0.3	4
28	Review of Recent Patents on Wearable Movement Sensors. <i>Recent Patents on Biomedical Engineering</i> , 2013, 6, 82-88.	0.5	2
29	Review of Recent Patents on Detection and Quantification of Tremor. <i>Recent Patents on Biomedical Engineering</i> , 2013, 6, 89-96.	0.5	0
30	Automatic identification of activityâ€œrest periods based on actigraphy. <i>Medical and Biological Engineering and Computing</i> , 2012, 50, 329-340.	1.6	27
31	Automated Prediction of the Apnea-Hypopnea Index from Nocturnal Oximetry Recordings. <i>IEEE Transactions on Biomedical Engineering</i> , 2012, 59, 141-149.	2.5	51
32	Comparative study of approximate entropy and sample entropy robustness to spikes. <i>Artificial Intelligence in Medicine</i> , 2011, 53, 97-106.	3.8	79
33	Pulse pressure variation: where are we today?. <i>Journal of Clinical Monitoring and Computing</i> , 2011, 25, 45-56.	0.7	66
34	Statistical model for cardiovascular signals with independent respiratory modulation for tracking pulse pressure variation. , 2011, 2011, 4681-4.		1
35	Automated detection of obstructive sleep apnoea syndrome from oxygen saturation recordings using linear discriminant analysis. <i>Medical and Biological Engineering and Computing</i> , 2010, 48, 895-902.	1.6	47
36	Automatic segmentation of long-term ECG signals corrupted with broadband noise based on sample entropy. <i>Computer Methods and Programs in Biomedicine</i> , 2010, 98, 118-129.	2.6	28

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37	Description of a Portable Wireless Device for High-Frequency Body Temperature Acquisition and Analysis. <i>Sensors</i> , 2009, 9, 7648-7663.	2.1	16
38	An Enhanced Automatic Algorithm for Estimation of Respiratory Variations in Arterial Pulse Pressure During Regions of Abrupt Hemodynamic Changes. <i>IEEE Transactions on Biomedical Engineering</i> , 2009, 56, 2537-2545.	2.5	16
39	Enhanced modified moving average analysis of T-wave alternans using a curve matching method: a simulation study. <i>Medical and Biological Engineering and Computing</i> , 2009, 47, 323-331.	1.6	17
40	Response: can a simulation study of T-wave alternans (TWA) resolve whether TWA is T-wave amplitude dependent?. <i>Medical and Biological Engineering and Computing</i> , 2009, 47, 355-355.	1.6	0
41	A novel recursive Fourier transform for nonuniform sampled signals: application to heart rate variability spectrum estimation. <i>Medical and Biological Engineering and Computing</i> , 2009, 47, 697-707.	1.6	9
42	Pulse pressure variation estimation using a sequential monte carlo method. , 2009, 2009, 5713-6.		4
43	A novel automatic image processing algorithm for detection of hard exudates based on retinal image analysis. <i>Medical Engineering and Physics</i> , 2008, 30, 350-357.	0.8	133
44	A novel method for nonstationary power spectral density estimation of cardiovascular pressure signals based on a Kalman filter with variable number of measurements. <i>Medical and Biological Engineering and Computing</i> , 2008, 46, 789-797.	1.6	5
45	Statistical Modeling of Cardiovascular Signals and Parameter Estimation Based on the Extended Kalman Filter. <i>IEEE Transactions on Biomedical Engineering</i> , 2008, 55, 119-129.	2.5	56
46	Complexity Analysis of Arterial Pressure During Periods of Abrupt Hemodynamic Changes. <i>IEEE Transactions on Biomedical Engineering</i> , 2008, 55, 797-801.	2.5	5
47	Characterization of Sample Entropy in the Context of Biomedical Signal Analysis. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , 2007, 2007, 5943-6.	0.5	41
48	T-wave Alternans Analysis Improvement by Means of Curve Alignment Prior to Distance Calculation. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , 2007, 2007, 690-3.	0.5	1
49	Design and implementation of a portable physiologic data acquisition system*. <i>Pediatric Critical Care Medicine</i> , 2007, 8, 563-569.	0.2	14
50	Pulse Morphology Visualization and Analysis With Applications in Cardiovascular Pressure Signals. <i>IEEE Transactions on Biomedical Engineering</i> , 2007, 54, 1552-1559.	2.5	32
51	Unsupervised classification of ventricular extrasystoles using bounded clustering algorithms and morphology matching. <i>Medical and Biological Engineering and Computing</i> , 2007, 45, 229-239.	1.6	25
52	Analysis of intracranial pressure during acute intracranial hypertension using Lempel-Ziv complexity: further evidence. <i>Medical and Biological Engineering and Computing</i> , 2007, 45, 617-620.	1.6	24
53	Predicting survival in critical patients by use of body temperature regularity measurement based on approximate entropy. <i>Medical and Biological Engineering and Computing</i> , 2007, 45, 671-678.	1.6	26
54	The individual RDH index: a novel vector index for statistical assessment of antihypertensive treatment reduction, duration, and homogeneity. <i>Blood Pressure Monitoring</i> , 2006, 11, 69-78.	0.4	10

#	ARTICLE	IF	CITATIONS
55	The population RDH index: a novel vector index and graphical method for statistical assessment of antihypertensive treatment reduction, duration, and homogeneity. Blood Pressure Monitoring, 2006, 11, 143-155.	0.4	6
56	Complex analysis of intracranial hypertension using approximate entropy*. Critical Care Medicine, 2006, 34, 87-95.	0.4	70
57	An Automatic Algorithm for Stationary Segmentation of Extracellular Microelectrode Recordings. Medical and Biological Engineering and Computing, 2006, 44, 511-515.	1.6	10
58	Reliability and accuracy of heart rate variability metrics versus ECG segment duration. Medical and Biological Engineering and Computing, 2006, 44, 747-756.	1.6	94
59	Variability, Regularity, and Complexity of Time Series Generated by Schizophrenic Patients and Control Subjects. IEEE Transactions on Biomedical Engineering, 2006, 53, 210-218.	2.5	65
60	Interpretation of the Lempel-Ziv Complexity Measure in the Context of Biomedical Signal Analysis. IEEE Transactions on Biomedical Engineering, 2006, 53, 2282-2288.	2.5	308
61	A Novel Approach to Pulse Pressure Variation Estimation. , 2006, 2006, 1391-3.		2
62	Cardiovascular Signal Decomposition and Estimation with the Extended Kalman Smoother. , 2006, 2006, 3708-11.		7
63	A Novel Approach to Pulse Pressure Variation Estimation. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2006, , .	0.5	0
64	Methodological considerations in the evaluation of the duration of action of antihypertensive therapy using ambulatory blood pressure monitoring. Blood Pressure Monitoring, 2005, 10, 111-115.	0.4	9
65	Adaptive Modeling and Spectral Estimation of Nonstationary Biomedical Signals Based on Kalman Filtering. IEEE Transactions on Biomedical Engineering, 2005, 52, 1485-1489.	2.5	37
66	Interpretation of Approximate Entropy: Analysis of Intracranial Pressure Approximate Entropy During Acute Intracranial Hypertension. IEEE Transactions on Biomedical Engineering, 2005, 52, 1671-1680.	2.5	113
67	An Automatic Beat Detection Algorithm for Pressure Signals. IEEE Transactions on Biomedical Engineering, 2005, 52, 1662-1670.	2.5	161
68	Lomb-Wech periodogram for non-uniform sampling. , 2004, 2006, 271-4.		15
69	Prediction of Paroxysmal Atrial Fibrillation by Analysis of Atrial Premature Complexes. IEEE Transactions on Biomedical Engineering, 2004, 51, 561-569.	2.5	103
70	A Microcontroller-Based Portable Electrocardiograph Recorder. IEEE Transactions on Biomedical Engineering, 2004, 51, 1686-1690.	2.5	43
71	A Novel Algorithm to Estimate the Pulse Pressure Variation Index $\Delta m PP$ . IEEE Transactions on Biomedical Engineering, 2004, 51, 2198-2203.	2.5	63
72	EVIDENCE FOR DIMINISHED COMPLEXITY DURING INTRACRANIAL HYPERTENSION IN TRAUMATIC BRAIN INJURY. Critical Care Medicine, 2002, 30, A80.	0.4	0