Geoff Chase

List of Publications by Year
in descending order

611 papers	11,711 citations	36303 51 h-index	62596 80 g-index
614 all docs	614 docs citations	614 times ranked	5706 citing authors

#	Article	IF	Citations
1	Neonatal Glycemia and Neurodevelopmental Outcomes at 2 Years. New England Journal of Medicine, 2015, 373, 1507-1518.	27.0	275
2	Association of Neonatal Glycemia With Neurodevelopmental Outcomes at 4.5 Years. JAMA Pediatrics, 2017, 171, 972.	6.2	260
3	Dextrose gel for neonatal hypoglycaemia (the Sugar Babies Study): a randomised, double-blind, placebo-controlled trial. Lancet, The, 2013, 382, 2077-2083.	13.7	228
4	Implementation and evaluation of the SPRINT protocol for tight glycaemic control in critically ill patients: a clinical practice change. Critical Care, 2008, 12, R49.	5.8	222
5	Human-Robot Collaboration: A Literature Review and Augmented Reality Approach in Design. International Journal of Advanced Robotic Systems, 2008, 5, 1.	2.1	212
6	Integral-based parameter identification for long-term dynamic verification of a glucose–insulin system model. Computer Methods and Programs in Biomedicine, 2005, 77, 259-270.	4.7	211
7	Ascorbate-dependent vasopressor synthesis: a rationale for vitamin C administration in severe sepsis and septic shock?. Critical Care, 2015, 19, 418.	5.8	191
8	A physiological Intensive Control Insulin-Nutrition-Glucose (ICING) model validated in critically ill patients. Computer Methods and Programs in Biomedicine, 2011, 102, 192-205.	4.7	169
9	Next-generation, personalised, model-based critical care medicine: a state-of-the art review of in silico virtual patient models, methods, and cohorts, and how to validation them. BioMedical Engineering OnLine, 2018, 17, 24.	2.7	143
10	Stochastic modelling of insulin sensitivity and adaptive glycemic control for critical care. Computer Methods and Programs in Biomedicine, 2008, 89, 141-152.	4.7	130
11	3D models of blood flow in the cerebral vasculature. Journal of Biomechanics, 2006, 39, 1454-1463.	2.1	115
12	Model-based PEEP optimisation in mechanical ventilation. BioMedical Engineering OnLine, 2011, 10, 111.	2.7	115
13	Minimal haemodynamic system model including ventricular interaction and valve dynamics. Medical Engineering and Physics, 2004, 26, 131-139.	1.7	112
14	Tight glycemic control in critical care – The leading role of insulin sensitivity and patient variability: A review and model-based analysis. Computer Methods and Programs in Biomedicine, 2011, 102, 156-171.	4.7	111
15	Organ failure and tight glycemic control in the SPRINT study. Critical Care, 2010, 14, R154.	5.8	109
16	A Simple Insulin-Nutrition Protocol for Tight Glycemic Control in Critical Illness: Development and Protocol Comparison. Diabetes Technology and Therapeutics, 2006, 8, 191-206.	4.4	102
17	STAR Development and Protocol Comparison. IEEE Transactions on Biomedical Engineering, 2012, 59, 3357-3364.	4.2	101
18	Model-based glycaemic control in critical care–A review of the state of the possible. Biomedical Signal Processing and Control, 2006, 1, 3-21.	5.7	98

#	Article	IF	Citations
19	Continuous glucose monitoring in the ICU: clinical considerations and consensus. Critical Care, 2017, 21, 197.	5.8	96
20	Stochastic Targeted (STAR) Glycemic Control: Design, Safety, and Performance. Journal of Diabetes Science and Technology, 2012, 6, 102-115.	2.2	95
21	Safety, efficacy and clinical generalization of the STAR protocol: a retrospective analysis. Annals of Intensive Care, 2016, 6, 24.	4.6	94
22	AC electric field induced dipole-based on-chip 3D cell rotation. Lab on A Chip, 2014, 14, 2717-2727.	6.0	91
23	Validation of a model-based virtual trials method for tight glycemic control in intensive care. BioMedical Engineering OnLine, 2010, 9, 84.	2.7	90
24	A graphical method for practical and informative identifiability analyses of physiological models: A case study of insulin kinetics and sensitivity. BioMedical Engineering OnLine, 2011, 10, 39.	2.7	90
25	Outcome at 2 Years after Dextrose Gel Treatment for Neonatal Hypoglycemia: Follow-Up of a Randomized Trial. Journal of Pediatrics, 2016, 170, 54-59.e2.	1.8	90
26	A Pilot Study of the SPRINT Protocol for Tight Glycemic Control in Critically Ill Patients. Diabetes Technology and Therapeutics, 2006, 8, 449-462.	4.4	85
27	Fast normalized cross correlation for motion tracking using basis functions. Computer Methods and Programs in Biomedicine, 2006, 82, 144-156.	4.7	78
28	Stochastic modelling of insulin sensitivity variability in critical care. Biomedical Signal Processing and Control, 2006, 1, 229-242.	5.7	77
29	Post-intensive care syndrome after a critical COVID-19: cohort study from a Belgian follow-up clinic. Annals of Intensive Care, 2021, 11, 118.	4.6	77
30	Adaptive bolus-based targeted glucose regulation of hyperglycaemia in critical care. Medical Engineering and Physics, 2005, 27, 1-11.	1.7	76
31	Variability of insulin sensitivity during the first 4 days of critical illness: implications for tight glycemic control. Annals of Intensive Care, 2012, 2, 17.	4.6	75
32	Insulin Units and Conversion Factors: A Story of Truth, Boots, and Faster Half-Truths. Journal of Diabetes Science and Technology, 2019, 13, 597-600.	2.2	74
33	Pilot proof of concept clinical trials of Stochastic Targeted (STAR) glycemic control. Annals of Intensive Care, 2011, 1, 38.	4.6	73
34	Performance of a damage-protected beam-column subassembly utilizing external HF2V energy dissipation devices. Earthquake Engineering and Structural Dynamics, 2008, 37, 1549-1564.	4.4	72
35	A Novel, Model-Based Insulin and Nutrition Delivery Controller for Glycemic Regulation in Critically Ill Patients. Diabetes Technology and Therapeutics, 2006, 8, 174-190.	4.4	71
36	Model-Based Insulin and Nutrition Administration for Tight Glycaemic Control in Critical Care. Current Drug Delivery, 2007, 4, 283-296.	1.6	71

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37	High-Force-to-Volume Seismic Dissipators Embedded in a Jointed Precast Concrete Frame. Journal of Structural Engineering, 2012, 138, 375-386.	3.4	69
38	A Glycemia Risk Index (GRI) of Hypoglycemia and Hyperglycemia for Continuous Glucose Monitoring Validated by Clinician Ratings. Journal of Diabetes Science and Technology, 2023, 17, 1226-1242.	2.2	69
39	Time-Varying Respiratory System Elastance: A Physiological Model for Patients Who Are Spontaneously Breathing. PLoS ONE, 2015, 10, e0114847.	2.5	66
40	Characterisation of the iterative integral parameter identification method. Medical and Biological Engineering and Computing, 2012, 50, 127-134.	2.8	65
41	Damage Avoidance Design Steel Beam-Column Moment Connection Using High-Force-to-Volume Dissipators. Journal of Structural Engineering, 2009, 135, 1390-1397.	3.4	64
42	Glucose Control in the ICU. Journal of Diabetes Science and Technology, 2016, 10, 1372-1381.	2.2	64
43	Model predictive glycaemic regulation in critical illness using insulin and nutrition input: A pilot study. Medical Engineering and Physics, 2006, 28, 665-681.	1.7	63
44	Monte Carlo analysis of a new model-based method for insulin sensitivity testing. Computer Methods and Programs in Biomedicine, 2008, 89, 215-225.	4.7	60
45	Blood Glucose Prediction Using Stochastic Modeling in Neonatal Intensive Care. IEEE Transactions on Biomedical Engineering, 2010, 57, 509-518.	4.2	60
46	Untangling glycaemia and mortality in critical care. Critical Care, 2017, 21, 152.	5.8	58
47	Glycemic Levels in Critically Ill Patients: Are Normoglycemia and Low Variability Associated with Improved Outcomes?. Journal of Diabetes Science and Technology, 2012, 6, 1030-1037.	2.2	57
48	Impact of Human Factors on Clinical Protocol Performance: A Proposed Assessment Framework and Case Examples. Journal of Diabetes Science and Technology, 2008, 2, 409-416.	2.2	56
49	A minimal model of lung mechanics and model-based markers for optimizing ventilator treatment in ARDS patients. Computer Methods and Programs in Biomedicine, 2009, 95, 166-180.	4.7	56
50	Physiological modeling, tight glycemic control, and the ICU clinician: what are models and how can they affect practice?. Annals of Intensive Care, 2011, 1, 11.	4.6	56
51	Positive end expiratory pressure in patients with acute respiratory distress syndrome â€" The past, present and future. Biomedical Signal Processing and Control, 2012, 7, 93-103.	5.7	55
52	Model-based optimal PEEP in mechanically ventilated ARDS patients in the Intensive Care Unit. BioMedical Engineering OnLine, 2011, 10, 64.	2.7	53
53	The dynamic insulin sensitivity and secretion testâ€"a novel measure of insulin sensitivity. Metabolism: Clinical and Experimental, 2011, 60, 1748-1756.	3.4	52
54	One-Dimensional and Three-Dimensional Models of Cerebrovascular Flow. Journal of Biomechanical Engineering, 2005, 127, 440-449.	1.3	51

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55	Targeted Glycemic Reduction in Critical Care Using Closed-Loop Control. Diabetes Technology and Therapeutics, 2005, 7, 274-282.	4.4	51
56	Blood Glucose Controller for Neonatal Intensive Care: Virtual Trials Development and First Clinical Trials. Journal of Diabetes Science and Technology, 2009, 3, 1066-1081.	2.2	51
57	What Makes Tight Glycemic Control Tight? The Impact of Variability and Nutrition in Two Clinical Studies. Journal of Diabetes Science and Technology, 2010, 4, 284-298.	2.2	51
58	Probabilistic evaluation of soilâ€"foundationâ€"structure interaction effects on seismic structural response. Earthquake Engineering and Structural Dynamics, 2011, 40, 135-154.	4.4	51
59	Continuous glucose monitoring in neonates: a review. Maternal Health, Neonatology and Perinatology, 2017, 3, 18.	2.2	49
60	Improvements in Glucose Metabolism and Insulin Sensitivity with a Low-Carbohydrate Diet in Obese Patients with Type 2 Diabetes. Journal of the American College of Nutrition, 2013, 32, 11-17.	1.8	48
61	Re-shaping hysteretic behaviour using semi-active resettable device dampers. Engineering Structures, 2006, 28, 1418-1429.	5.3	46
62	Model-based cardiac diagnosis of pulmonary embolism. Computer Methods and Programs in Biomedicine, 2007, 87, 46-60.	4.7	46
63	Design and Clinical Pilot Testing of the Model-Based Dynamic Insulin Sensitivity and Secretion Test (DISST). Journal of Diabetes Science and Technology, 2010, 4, 1408-1423.	2.2	46
64	Structural Identifiability and Practical Applicability of an Alveolar Recruitment Model for ARDS Patients. IEEE Transactions on Biomedical Engineering, 2012, 59, 3396-3404.	4.2	46
65	Feasibility of titrating PEEP to minimum elastance for mechanically ventilated patients. Pilot and Feasibility Studies, 2015, 1, 9.	1.2	46
66	Generalisability of a Virtual Trials Method for Glycaemic Control in Intensive Care. IEEE Transactions on Biomedical Engineering, 2018, 65, 1543-1553.	4.2	46
67	Simulation of cardiovascular system diseases by including the autonomic nervous system into a minimal model. Computer Methods and Programs in Biomedicine, 2007, 86, 153-160.	4.7	45
68	Biomedical engineerâ€™s guide to the clinical aspects of intensive care mechanical ventilation. BioMedical Engineering OnLine, 2018, 17, 169.	2.7	45
69	Transient and Steady-State Euglycemic Clamp Validation of a Model for Glycemic Control and Insulin Sensitivity Testing. Diabetes Technology and Therapeutics, 2006, 8, 338-346.	4.4	44
70	Integral-based filtering of continuous glucose sensor measurements for glycaemic control in critical care. Computer Methods and Programs in Biomedicine, 2006, 82, 238-247.	4.7	44
71	Point: HOMA Satisfactory for the Time Being: HOMA: The best bet for the simple determination of insulin sensitivity, until something better comes along. Diabetes Care, 2007, 30, 2411-2413.	8.6	44
72	Pilot study of a model-based approach to blood glucose control in very-low-birthweight neonates. BMC Pediatrics, 2012, 12, 117.	1.7	44

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73	Virtual patients for mechanical ventilation in the intensive care unit. Computer Methods and Programs in Biomedicine, 2021, 199, 105912.	4.7	43
74	Quantifying agitation in sedated ICU patients using digital imaging. Computer Methods and Programs in Biomedicine, 2004, 76, 131-141.	4.7	42
75	Improving glycemic control in critically ill patients: personalized care to mimic the endocrine pancreas. Critical Care, 2018, 22, 182.	5.8	42
76	Active insulin infusion using optimal and derivative-weighted control. Medical Engineering and Physics, 2002, 24, 663-672.	1.7	41
77	Glucose control positively influences patient outcome: A retrospective study. Journal of Critical Care, 2015, 30, 455-459.	2.2	41
78	Predictive Virtual Patient Modelling of Mechanical Ventilation: Impact of Recruitment Function. Annals of Biomedical Engineering, 2019, 47, 1626-1641.	2.5	41
79	Towards Point-of-Care Insulin Detection. ACS Sensors, 2019, 4, 3-19.	7.8	41
80	Expiratory model-based method to monitor ARDS disease state. BioMedical Engineering OnLine, 2013, 12, 57.	2.7	40
81	The clinical utility window for acute kidney injury biomarkers in the critically ill. Critical Care, 2014, 18, 601.	5.8	40
82	Does the achievement of an intermediate glycemic target reduce organ failure and mortality? A post hoc analysis of the Glucontrol trial. Journal of Critical Care, 2014, 29, 374-379.	2.2	40
83	Integral-based identification of patient specific parameters for a minimal cardiac model. Computer Methods and Programs in Biomedicine, 2006, 81, 181-192.	4.7	39
84	Visualisation of time-varying respiratory system elastance in experimental ARDS animal models. BMC Pulmonary Medicine, 2014, 14, 33.	2.0	39
85	Resettable smart dampers for multi-level seismic hazard mitigation of steel moment frames. Structural Control and Health Monitoring, 2003, 10, 41-58.	0.5	37
86	Physical parameter identification of nonlinear base-isolated buildings using seismic response data. Computers and Structures, 2014, 145, 47-57.	4.4	37
87	Physical Parameter Identification of Structural Systems with Hysteretic Pinching. Computer-Aided Civil and Infrastructure Engineering, 2015, 30, 247-262.	9.8	37
88	DISTq: An Iterative Analysis of Glucose Data for Low-Cost, Real-Time and Accurate Estimation of Insulin Sensitivity. Open Medical Informatics Journal, 2009, 3, 65-76.	1.0	37
89	Alcohol in breath and blood: a selected ion flow tube mass spectrometric study. Rapid Communications in Mass Spectrometry, 2001, 15, 413-417.	1.5	36
90	Continuous Glucose Monitors and the Burden of Tight Glycemic Control in Critical Care: Can They Cure the Time Cost?. Journal of Diabetes Science and Technology, 2010, 4, 625-635.	2.2	35

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91	Validation of subject-specific cardiovascular system models from porcine measurements. Computer Methods and Programs in Biomedicine, 2013, 109, 197-210.	4.7	35
92	Assessing mechanical ventilation asynchrony through iterative airway pressure reconstruction. Computer Methods and Programs in Biomedicine, 2018, 157, 217-224.	4.7	35
93	Spectral analysis and design approach for high force-to-volume extrusion damper-based structural energy dissipation. Earthquake Engineering and Structural Dynamics, 2008, 37, 207-223.	4.4	34
94	Model-based identification and diagnosis of a porcine model of induced endotoxic shock with hemofiltration. Mathematical Biosciences, 2008, 216, 132-139.	1.9	34
95	A simulation model of insulin saturation and glucose balance for glycemic control in ICU patients. Computer Methods and Programs in Biomedicine, 2010, 97, 211-222.	4.7	34
96	Unique parameter identification for cardiac diagnosis in critical care using minimal data sets. Computer Methods and Programs in Biomedicine, 2010, 99, 75-87.	4.7	34
97	Innovative seismic retrofitting strategy of added stories isolation system. Frontiers of Structural and Civil Engineering, 2013, 7, 13-23.	2.9	34
98	Digital Image-Based Elasto-Tomography: Proof of Concept Studies for Surface Based Mechanical Property Reconstruction. JSME International Journal Series C-Mechanical Systems Machine Elements and Manufacturing, 2004, 47, 1117-1123.	0.3	33
99	A Subcutaneous Insulin Pharmacokinetic Model for Computer Simulation in a Diabetes Decision Support Role: Model Structure and Parameter Identification. Journal of Diabetes Science and Technology, 2008, 2, 658-671.	2.2	33
100	The Glucosafe system for tight glycemic control in critical care: A pilot evaluation study. Journal of Critical Care, 2010, 25, 97-104.	2.2	33
101	Roadmap for cardiovascular circulation model. Journal of Physiology, 2016, 594, 6909-6928.	2.9	33
102	A Benchmark Data Set for Model-Based Glycemic Control in Critical Care. Journal of Diabetes Science and Technology, 2008, 2, 584-594.	2.2	32
103	Assessing respiratory mechanics using pressure reconstruction method in mechanically ventilated spontaneous breathing patient. Computer Methods and Programs in Biomedicine, 2016, 130, 175-185.	4.7	32
104	Association of Neonatal Hypoglycemia With Academic Performance in Mid-Childhood. JAMA - Journal of the American Medical Association, 2022, 327, 1158.	7.4	32
105	Robust Hˆž Static Output Feedback Control with Actuator Saturation. Journal of Engineering Mechanics - ASCE, 1999, 125, 225-233.	2.9	30
106	Real-Time System Identification of a Nonlinear Four-Story Steel Frame Structure—Application to Structural Health Monitoring. IEEE Sensors Journal, 2009, 9, 1339-1346.	4.7	30
107	Impact of Retrospective Calibration Algorithms on Hypoglycemia Detection in Newborn Infants Using Continuous Glucose Monitoring. Diabetes Technology and Therapeutics, 2012, 14, 883-890.	4.4	30
108	Experimental testing of damage-resistant rocking glulam walls with lead extrusion dampers. Construction and Building Materials, 2016, 102, 1145-1153.	7.2	30

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109	Glycemic control in the intensive care unit: A control systems perspective. Annual Reviews in Control, 2019, 48, 359-368.	7.9	30
110	MEMS-Based Control of Structural Dynamic Instability. Journal of Intelligent Material Systems and Structures, 1998, 9, 574-586.	2.5	29
111	Efficient structural health monitoring for a benchmark structure using adaptive RLS filters. Computers and Structures, 2005, 83, 639-647.	4.4	29
112	Digital Image Elasto-Tomography: Combinatorial and Hybrid Optimization Algorithms for Shape-Based Elastic Property Reconstruction. IEEE Transactions on Biomedical Engineering, 2008, 55, 2575-2583.	4.2	29
113	Mathematical multi-scale model of the cardiovascular system including mitral valve dynamics. Application to ischemic mitral insufficiency. BioMedical Engineering OnLine, 2011, 10, 86.	2.7	29
114	Iterative integral parameter identification of a respiratory mechanics model. BioMedical Engineering OnLine, 2012, 11, 38.	2.7	29
115	A simple LMS-based approach to the structural health monitoring benchmark problem. Earthquake Engineering and Structural Dynamics, 2005, 34, 575-594.	4.4	28
116	Re-shaping hysteretic behaviourâ€"spectral analysis and design equations for semi-active structures. Earthquake Engineering and Structural Dynamics, 2007, 36, 77-100.	4.4	28
117	Model-Based Insulin Sensitivity as a Sepsis Diagnostic in Critical Care. Journal of Diabetes Science and Technology, 2008, 2, 468-477.	2.2	28
118	Simulation of Left Atrial Function Using a Multi-Scale Model of the Cardiovascular System. PLoS ONE, 2013, 8, e65146.	2.5	28
119	Experimentally verified minimal cardiovascular system model for rapid diagnostic assistance. Control Engineering Practice, 2005, 13, 1183-1193.	5.5	27
120	Beyond Ductility: Parametric Testing of a Jointed Rocking Beam-Column Connection Designed for Damage Avoidance. Journal of Structural Engineering, 2016, 142, .	3.4	27
121	Comparing model-based adaptive LMS filters and a model-free hysteresis loop analysis method for structural health monitoring. Mechanical Systems and Signal Processing, 2017, 84, 384-398.	8.0	27
122	Degradation evaluation of lateral story stiffness using HLA-based deep learning networks. Advanced Engineering Informatics, 2019, 39, 259-268.	8.0	27
123	Outcome Improvement Between the First Two Waves of the Coronavirus Disease 2019 Pandemic in a Single Tertiary-Care Hospital in Belgium. , 2021, 3, e0438.		27
124	Robust Hâˆž Control Considering Actuator Saturation. I: Theory. Journal of Engineering Mechanics - ASCE, 1996, 122, 976-983.	2.9	26
125	Semiâ€active tuned mass damper building systems: Design. Earthquake Engineering and Structural Dynamics, 2010, 39, 119-139.	4.4	26
126	Evaluation of model-based methods in estimating respiratory mechanics in the presence of variable patient effort. Computer Methods and Programs in Biomedicine, 2019, 171, 67-79.	4.7	26

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127	Support vector machines for automated modelling of nonlinear structures using health monitoring results. Mechanical Systems and Signal Processing, 2021, 149, 107201.	8.0	26
128	Experimental development, tradeoff analysis and design implementation of high force-to-volume damping technology. Bulletin of the New Zealand Society for Earthquake Engineering, 2007, 40, 35-48.	0.5	26
129	Optimal stabilization of plate buckling. Smart Materials and Structures, 1999, 8, 204-211.	3.5	25
130	Digital Image-Based Elasto-Tomography: First Experiments in Surface Based Mechanical Property Estimation of Gelatine Phantoms. JSME International Journal Series C-Mechanical Systems Machine Elements and Manufacturing, 2005, 48, 562-569.	0.3	25
131	A Subcutaneous Insulin Pharmacokinetic Model for Computer Simulation in a Diabetes Decision Support Role: Validation and Simulation. Journal of Diabetes Science and Technology, 2008, 2, 672-680.	2.2	25
132	First pilot trial of the STAR-Liege protocol for tight glycemic control in critically ill patients. Computer Methods and Programs in Biomedicine, 2012, 108, 844-859.	4.7	25
133	NAVA enhances tidal volume and diaphragmatic electro-myographic activity matching: a Range90 analysis of supply and demand. Journal of Clinical Monitoring and Computing, 2013, 27, 61-70.	1.6	25
134	Clinical Application of Respiratory Elastance (CARE Trial) for Mechanically Ventilated Respiratory Failure Patients: A Model-based Study. IFAC-PapersOnLine, 2018, 51, 209-214.	0.9	25
135	Lumped Parameter and Feedback Control Models of the Auto-regulatory Response in the Circle of Willis. Computer Methods in Biomechanics and Biomedical Engineering, 2004, 7, 121-130.	1.6	24
136	Efficient implementation of non-linear valve law and ventricular interaction dynamics in the minimal cardiac model. Computer Methods and Programs in Biomedicine, 2005, 80, 65-74.	4.7	24
137	Impact of glucocorticoids on insulin resistance in the critically ill. Computer Methods and Programs in Biomedicine, 2011, 102, 172-180.	4.7	24
138	Reconstructing 3-D Skin Surface Motion for the DIET Breast Cancer Screening System. IEEE Transactions on Medical Imaging, 2014, 33, 1109-1118.	8.9	24
139	Use of basis functions within a non-linear autoregressive model of pulmonary mechanics. Biomedical Signal Processing and Control, 2016, 27, 44-50.	5.7	24
140	Analysing the effects of cold, normal, and warm digits on transmittance pulse oximetry. Biomedical Signal Processing and Control, 2016, 26, 34-41.	5.7	24
141	Optimal Stabilization of Column Buckling. Journal of Engineering Mechanics - ASCE, 1999, 125, 987-993.	2.9	23
142	Quantifying agitation in sedated ICU patients using heart rate and blood pressure. Physiological Measurement, 2004, 25, 1037-1051.	2.1	23
143	Classifying algorithms for SIFT-MS technology and medical diagnosis. Computer Methods and Programs in Biomedicine, 2008, 89, 226-238.	4.7	23
144	Semi-active tuned mass damper building systems: Application. Earthquake Engineering and Structural Dynamics, 2010, 39, 69-89.	4.4	23

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145	Effects of soilâ€"foundationâ€"structure interaction on seismic structural response via robust Monte Carlo simulation. Engineering Structures, 2011, 33, 1338-1347.	5.3	23
146	Silicone breast phantoms for elastographic imaging evaluation. Medical Physics, 2013, 40, 063503.	3.0	23
147	Nutrition delivery of a model-based ICU glycaemic control system. Annals of Intensive Care, 2018, 8, 4.	4.6	23
148	Pre-ejection period, the reason why the electrocardiogram Q-wave is an unreliable indicator of pulse wave initialization. Physiological Measurement, 2018, 39, 095005.	2.1	23
149	Model-based estimation of negative inspiratory driving pressure in patients receiving invasive NAVA mechanical ventilation. Computer Methods and Programs in Biomedicine, 2021, 208, 106300.	4.7	23
150	Continuous Stroke Volume Estimation from Aortic Pressure Using Zero Dimensional Cardiovascular Model: Proof of Concept Study from Porcine Experiments. PLoS ONE, 2014, 9, e102476.	2.5	23
151	Overview of Glycemic Control in Critical Care: Relating Performance and Clinical Results. Journal of Diabetes Science and Technology, 2007, 1, 82-91.	2.2	22
152	Estimating elasticity in heterogeneous phantoms using Digital Image Elasto-Tomography. Medical and Biological Engineering and Computing, 2009, 47, 67-76.	2.8	22
153	Blood Glucose Levels of Subelite Athletes During 6 Days of Free Living. Journal of Diabetes Science and Technology, 2016, 10, 1335-1343.	2.2	22
154	Prediction of lung mechanics throughout recruitment maneuvers in pressure-controlled ventilation. Computer Methods and Programs in Biomedicine, 2020, 197, 105696.	4.7	22
155	Model-based PEEP titration versus standard practice in mechanical ventilation: a randomised controlled trial. Trials, 2020, 21, 130.	1.6	22
156	Robust Hˆž Control Considering Actuator Saturation. II: Applications. Journal of Engineering Mechanics - ASCE, 1996, 122, 984-993.	2.9	21
157	The impact of total acceleration control for semi-active earthquake hazard mitigation. Engineering Structures, 2004, 26, 201-209.	5.3	21
158	LMS-based structural health monitoring of a non-linear rocking structure. Earthquake Engineering and Structural Dynamics, 2005, 34, 909-930.	4.4	21
159	Prediction of hemodynamic changes towards PEEP titrations at different volemic levels using a minimal cardiovascular model. Computer Methods and Programs in Biomedicine, 2008, 91, 128-134.	4.7	21
160	Model-based identification of PEEP titrations during different volemic levels. Computer Methods and Programs in Biomedicine, 2008, 91, 135-144.	4.7	21
161	A Novel Wall Climbing Robot Based on Bernoulli Effect. , 2008, , .		21
162	Development of a model-based clinical sepsis biomarker for critically ill patients. Computer Methods and Programs in Biomedicine, 2011, 102, 149-155.	4.7	21

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163	Independent cohort cross-validation of the real-time DISTq estimation of insulin sensitivity. Computer Methods and Programs in Biomedicine, 2011, 102, 94-104.	4.7	21
164	Structural identifiability analysis of a cardiovascular system model. Medical Engineering and Physics, 2016, 38, 433-441.	1.7	21
165	Extrapolation of a non-linear autoregressive model of pulmonary mechanics. Mathematical Biosciences, 2017, 284, 32-39.	1.9	21
166	A 3D insulin sensitivity prediction model enables more patient-specific prediction and model-based glycaemic control. Biomedical Signal Processing and Control, 2018, 46, 192-200.	5.7	21
167	Measuring facial grimacing for quantifying patient agitation in critical care. Computer Methods and Programs in Biomedicine, 2007, 87, 138-147.	4.7	20
168	Experimental validation of semiâ€active resetable actuators in a â…•th scale test structure. Earthquake Engineering and Structural Dynamics, 2009, 38, 517-536.	4.4	20
169	Cell image recognition and visual servo control for automated cell injection. , 2009, , .		20
170	Modeling the glucose regulatory system in extreme preterm infants. Computer Methods and Programs in Biomedicine, 2011, 102, 253-266.	4.7	20
171	Separate modal analysis for tumor detection with a digital image elasto tomography (DIET) breast cancer screening system. Medical Physics, 2013, 40, 113503.	3.0	20
172	Stochastic Model Predictive (STOMP) glycaemic control for the intensive care unit: Development and virtual trial validation. Biomedical Signal Processing and Control, 2015, 16, 61-67.	5.7	20
173	Damage assessment by stiffness identification for a full-scale three-story steel moment resisting frame building subjected to a sequence of earthquake excitations. Bulletin of Earthquake Engineering, 2017, 15, 5393-5412.	4.1	20
174	Mechanical behaviour of tissue mimicking breast phantom materials. Biomedical Physics and Engineering Express, 2017, 3, 045010.	1.2	20
175	Quantifying neonatal pulmonary mechanics in mechanical ventilation. Biomedical Signal Processing and Control, 2019, 52, 206-217.	5.7	20
176	Modeling and control of the agitationâ€"sedation cycle for critical care patients. Medical Engineering and Physics, 2004, 26, 459-471.	1.7	19
177	A Low-Cost Unmanned Underwater Vehicle Prototype for Shallow Water Tasks. , 2008, , .		19
178	Development of a Clinical Type 1 Diabetes Metabolic System Model and *in Silico* Simulation Tool. Journal of Diabetes Science and Technology, 2008, 2, 424-435.	2.2	19
179	Hypoglycemia Detection in Critical Care Using Continuous Glucose Monitors: An in SilicoProof of Concept Analysis. Journal of Diabetes Science and Technology, 2010, 4, 15-24.	2.2	19
180	HF2V dissipator effects on the performance of a 3 story moment frame. Journal of Constructional Steel Research, 2011, 67, 1843-1849.	3.9	19

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181	Beat-to-beat estimation of the continuous left and right cardiac elastance from metrics commonly available in clinical settings. BioMedical Engineering OnLine, 2012, 11, 73.	2.7	19
182	Reformulation of the pressure-dependent recruitment model (PRM) of respiratory mechanics. Biomedical Signal Processing and Control, 2014, 12, 47-53.	5.7	19
183	Experimental Test and Validation of a Direction- and Displacement-Dependent Viscous Damper. Journal of Engineering Mechanics - ASCE, 2017, 143, .	2.9	19
184	Derivative weighted active insulin control algorithms and intensive care unit trials. Control Engineering Practice, 2005, 13, 1129-1137.	5.5	18
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