

Geoff Chase

List of Publications by Year in descending order

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Version: 2024-02-01

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	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
2	Asymmetric Friction Connection Bolt Lever Arm Effects on Hysteretic Behaviour. Journal of Earthquake Engineering, 2022, 26, 1543-1564.	2.5	4
3	The Impact of Exogenous Insulin Input on Calculating Hepatic Clearance Parameters. Journal of Diabetes Science and Technology, 2022, 16, 945-954.	2.2	4
4	Real-world application of hysteresis loop analysis for stiffness identification of an instrumented building across multiple seismic events. Journal of Building Engineering, 2022, 45, 103524.	3.4	4
5	Nonlinear Finite-Element Modeling of HF2V Lead Extrusion Damping Devices: Generic Design Tool. Journal of Structural Engineering, 2022, 148, .	3.4	8
6	Prediction and estimation of pulmonary response and elastance evolution for volume-controlled and pressure-controlled ventilation. Biomedical Signal Processing and Control, 2022, 72, 103367.	5.7	14
7	Over-distension prediction via hysteresis loop analysis and patient-specific basis functions in a virtual patient model. Computers in Biology and Medicine, 2022, 141, 105022.	7.0	13
8	Protocol conception for safe selection of mechanical ventilation settings for respiratory failure Patients. Computer Methods and Programs in Biomedicine, 2022, 214, 106577.	4.7	7
9	Quantifying neonatal patient effort using non-invasive model-based methods. Medical and Biological Engineering and Computing, 2022, 60, 739-751.	2.8	2
10	Quantifying ventilator unloading in CPAP ventilation. Computers in Biology and Medicine, 2022, 142, 105225.	7.0	16
11	Model-based patient matching for in-parallel pressure-controlled ventilation. BioMedical Engineering OnLine, 2022, 21, 11.	2.7	0
12	Stochastic integrated model-based protocol for volume-controlled ventilation setting. BioMedical Engineering OnLine, 2022, 21, 13.	2.7	0
13	Reconstructing asynchrony for mechanical ventilation using a hysteresis loop virtual patient model. BioMedical Engineering OnLine, 2022, 21, 16.	2.7	8
14	Determining Losses in Jet Injection Subcutaneous Insulin Delivery: A Model-Based Approach. Journal of Diabetes Science and Technology, 2022, , 193229682210850.	2.2	1
15	Association of Neonatal Hypoglycemia With Academic Performance in Mid-Childhood. JAMA - Journal of the American Medical Association, 2022, 327, 1158.	7.4	32
16	Mixed reality-integrated 3D/2D vision mapping for intuitive teleoperation of mobile manipulator. Robotics and Computer-Integrated Manufacturing, 2022, 77, 102332.	9.9	16
17	Physiological trend analysis of a novel cardio-pulmonary model during a preload reduction manoeuvre. Computer Methods and Programs in Biomedicine, 2022, 220, 106819.	4.7	2
18	Mixed-Reality-Enhanced Human-Robot Interaction with an Imitation-Based Mapping Approach for Intuitive Teleoperation of a Robotic Arm-Hand System. Applied Sciences (Switzerland), 2022, 12, 4740.	2.5	16

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19	Estimating the incidence of spontaneous breathing effort of mechanically ventilated patients using a non-linear auto regressive (NARX) model. <i>Computer Methods and Programs in Biomedicine</i> , 2022, 220, 106835.	4.7	3
20	Model-Based Glycaemic Control in Critically Ill Diabetes Mellitus Patients: Monte Carlo Sensitivity Analysis. , 2022, , .		0
21	CPAP pressure and flow data at 2 positive pressure levels and multiple controlled breathing rates from a trial of 30 adults. <i>BMC Research Notes</i> , 2022, 15, .	1.4	0
22	Clinical Recommendations for Managing the Impact of Insulin Adsorptive Loss in Hospital and Diabetes Care. <i>Journal of Diabetes Science and Technology</i> , 2021, 15, 193229682091587.	2.2	7
23	Estimating Increased EGP during Stress Response in Critically Ill Patients. <i>Journal of Diabetes Science and Technology</i> , 2021, 15, 193229682092284.	2.2	6
24	Accurate end systole detection in dicrotic notch-less arterial pressure waveforms. <i>Journal of Clinical Monitoring and Computing</i> , 2021, 35, 79-88.	1.6	8
25	A new pinched nonlinear hysteretic structural model for automated creation of digital clones in structural health monitoring. <i>Structural Health Monitoring</i> , 2021, 20, 101-117.	7.5	8
26	Support vector machines for automated modelling of nonlinear structures using health monitoring results. <i>Mechanical Systems and Signal Processing</i> , 2021, 149, 107201.	8.0	26
27	Capacity of Infusion Lines for Insulin Adsorption: Effect of Flow Rate on Total Adsorption. <i>Journal of Diabetes Science and Technology</i> , 2021, 15, 109-120.	2.2	13
28	Increased insulin resistance in intensive care: longitudinal retrospective analysis of glycaemic control patients in a New Zealand ICU. <i>Therapeutic Advances in Endocrinology and Metabolism</i> , 2021, 12, 204201882110121.	3.2	1
29	Variability in Estimated Modelled Insulin Secretion. <i>Journal of Diabetes Science and Technology</i> , 2021, , 193229682199112.	2.2	2
30	Risk-Based Care: Let's Think Outside the Box. <i>Frontiers in Medicine</i> , 2021, 8, 535244.	2.6	1
31	Virtual patients for mechanical ventilation in the intensive care unit. <i>Computer Methods and Programs in Biomedicine</i> , 2021, 199, 105912.	4.7	43
32	Is Mortality Rate of Ventilated Patients With Coronavirus Disease 2019 So High?. <i>Critical Care Medicine</i> , 2021, Publish Ahead of Print, e738-e739.	0.9	1
33	Using Field Based Data to Model Sprint Track Cycling Performance. <i>Sports Medicine - Open</i> , 2021, 7, 20.	3.1	10
34	Real-time structural health monitoring of nonlinear hysteretic structures using a fast and slow dynamics separation method. <i>IFAC Journal of Systems and Control</i> , 2021, 15, 100122.	1.7	0
35	High Inter-Patient Variability in Sepsis Evolution: A Hidden Markov Model Analysis. <i>Computer Methods and Programs in Biomedicine</i> , 2021, 201, 105956.	4.7	1
36	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

#	ARTICLE	IF	CITATIONS
37	The Effects of Additional Local-Mixing Compartments in the DISST Model-Based Assessment of Insulin Sensitivity. <i>Journal of Diabetes Science and Technology</i> , 2021, , 193229682110216.	2.2	1
38	The goldilocks problem: Nutrition and its impact on glycaemic control. <i>Clinical Nutrition</i> , 2021, 40, 3677-3687.	5.0	2
39	Tube-load model: A clinically applicable pulse contour analysis method for estimation of cardiac stroke volume. <i>Computer Methods and Programs in Biomedicine</i> , 2021, 204, 106062.	4.7	5
40	Serum fluoride levels in ambulance staff after commencement of methoxyflurane administration compared to meta-analysis results for the general public. <i>International Journal of Occupational Medicine and Environmental Health</i> , 2021, , .	1.3	1
41	Estimating Enhanced Endogenous Glucose Production in Intensive Care Unit Patients with Severe Insulin Resistance. <i>Journal of Diabetes Science and Technology</i> , 2021, , 193229682110182.	2.2	4
42	Modeling limit force capacities of high force to volume lead extrusion dampers. <i>Frontiers of Structural and Civil Engineering</i> , 2021, 15, 609-622.	2.9	3
43	Higher Dimensional Insulin Sensitivity Prediction in Intensive Care. , 2021, , .		0
44	Modeling viscous damping in actuated breast tissue to provide diagnostic insight for breast cancer: A proof-of-concept analysis. <i>Medical Physics</i> , 2021, 48, 4978-4992.	3.0	2
45	Post-intensive care syndrome after a critical COVID-19: cohort study from a Belgian follow-up clinic. <i>Annals of Intensive Care</i> , 2021, 11, 118.	4.6	77
46	Reply to: Comment on: "Using Field Based Data to Model Sprint Track Cycling Performance" <i>Sports Medicine - Open</i> , 2021, 7, 61.	3.1	1
47	Preload & Frank-Starling curves, from textbook to bedside: Clinically applicable non-additionally invasive model-based estimation in pigs. <i>Computers in Biology and Medicine</i> , 2021, 135, 104627.	7.0	4
48	Quantifying patient spontaneous breathing effort using model-based methods. <i>Biomedical Signal Processing and Control</i> , 2021, 69, 102809.	5.7	7
49	The CREBRF diabetes-protective rs373863828-A allele is associated with enhanced early insulin release in men of Māori and Pacific ancestry. <i>Diabetologia</i> , 2021, 64, 2779-2789.	6.3	7
50	Evaluation of Pinching Effects on a Real Concrete Building Seismic Performance by Resimulating Displacement Responses Using HLA SHM Results. <i>Journal of Performance of Constructed Facilities</i> , 2021, 35, .	2.0	3
51	Stochastic Modelling of Respiratory System Elastance for Mechanically Ventilated Respiratory Failure Patients. <i>Annals of Biomedical Engineering</i> , 2021, 49, 3280-3295.	2.5	15
52	Frequency and duration of ambulance officer exposure to nitrous oxide and methoxyflurane in New Zealand. <i>International Archives of Occupational and Environmental Health</i> , 2021, 94, 1773-1782.	2.3	0
53	Model-based estimation of negative inspiratory driving pressure in patients receiving invasive NAVA mechanical ventilation. <i>Computer Methods and Programs in Biomedicine</i> , 2021, 208, 106300.	4.7	23
54	Insulin sensitivity in critically ill patients: are women more insulin resistant?. <i>Annals of Intensive Care</i> , 2021, 11, 12.	4.6	10

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55	Network Data Acquisition and Monitoring System for Intensive Care Mechanical Ventilation Treatment. IEEE Access, 2021, 9, 91859-91873.	4.2	18
56	Predicting fluid-response, the heart of hemodynamic management: A model-based solution. Computers in Biology and Medicine, 2021, 139, 104950.	7.0	2
57	B-spline modelling of inspiratory drive in NAVA-ventilated patients. IFAC-PapersOnLine, 2021, 54, 103-108.	0.9	10
58	STAR-3D Clinical Trial Results: Improved performance and safety. IFAC-PapersOnLine, 2021, 54, 490-495.	0.9	0
59	Impact of Two Lung Elastance Identification Methods on Pulmonary Mechanics Prediction. IFAC-PapersOnLine, 2021, 54, 97-102.	0.9	0
60	Predicting Pulmonary Distension in a Virtual Patient Model for Mechanical Ventilation. IFAC-PapersOnLine, 2021, 54, 91-96.	0.9	1
61	Safe Mechanical Ventilation Treatment Settings for Respiratory Failure Patients. IFAC-PapersOnLine, 2021, 54, 115-120.	0.9	1
62	Image Pre-processing Significance on Regions of Impact in a Trained Network for Facial Emotion Recognition. IFAC-PapersOnLine, 2021, 54, 299-303.	0.9	2
63	Minimal Lung Mechanics Basis-functions for a Mechanical Ventilation Virtual Patient. IFAC-PapersOnLine, 2021, 54, 127-132.	0.9	3
64	Behavior Analysis of Sex based Cohorts Using the Toolset of Artificial Intelligence Based Insulin Sensitivity Prediction Methods. IFAC-PapersOnLine, 2021, 54, 352-357.	0.9	1
65	Pilot study of model-based estimation of inspiratory driving pressure in CPAP ventilation. IFAC-PapersOnLine, 2021, 54, 109-114.	0.9	5
66	Estimating patient-specific maximum recruitable volume in neonatal lungs. IFAC-PapersOnLine, 2021, 54, 180-185.	0.9	0
67	The separation of insulin pump hardware and software - a novel and low-cost approach to insulin pump design. IFAC-PapersOnLine, 2021, 54, 502-507.	0.9	5
68	Model-based Patient Matching for in-parallel Multiplexing Mechanical Ventilation Support. IFAC-PapersOnLine, 2021, 54, 121-126.	0.9	2
69	Does Facemask Impact Diagnostic During Pulmonary Auscultation?. IFAC-PapersOnLine, 2021, 54, 192-197.	0.9	0
70	Mixed Reality-Enhanced Intuitive Teleoperation with Hybrid Virtual Fixtures for Intelligent Robotic Welding. Applied Sciences (Switzerland), 2021, 11, 11280.	2.5	12
71	Methoxyflurane toxicity: historical determination and lessons for modern patient and occupational exposure. New Zealand Medical Journal, 2021, 134, 76-90.	0.5	2
72	Analysis of Induced Voltage on Pipeline Located Close to Parallel Distribution System. Energies, 2021, 14, 8536.	3.1	3

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73	Seismic Behavior of a Self-Centering System with 2 nd Viscous Damper. Journal of Earthquake Engineering, 2020, 24, 470-484.	2.5	15
74	Nonlinear Spectral Analysis for Structures with Re-centring D3 Viscous Dissipaters. Journal of Earthquake Engineering, 2020, 24, 1530-1546.	2.5	5
75	Assessment of the Dynamic Insulin Secretion and Sensitivity Test (DISST) Pre and Post Gastric bypass Surgery. Experimental and Clinical Endocrinology and Diabetes, 2020, 128, 164-169.	1.2	2
76	Authors'™ Response to Drs. Ece Salihoglu and Ziya Salihoglu's™ Letter to the Editor. Annals of Biomedical Engineering, 2020, 48, 2-3.	2.5	0
77	Clinically applicable model-based method, for physiologically accurate flow waveform and stroke volume estimation. Computer Methods and Programs in Biomedicine, 2020, 185, 105125.	4.7	10
78	Mechanically ventilated premature babies have sex differences in specific elastance: A pilot study. Pediatric Pulmonology, 2020, 55, 177-184.	2.0	9
79	Kernel density estimates for sepsis classification. Computer Methods and Programs in Biomedicine, 2020, 188, 105295.	4.7	5
80	A combined SHM/IDA method for assessing collapse capacity and risk in subsequent ground motions. Journal of Civil Structural Health Monitoring, 2020, 10, 17-28.	3.9	3
81	Patient-Specific Monitoring and Trend Analysis of Model-Based Markers of Fluid Responsiveness in Sepsis: A Proof-of-Concept Animal Study. Annals of Biomedical Engineering, 2020, 48, 682-694.	2.5	9
82	In silico validation of a new model-based oral-subcutaneous insulin sensitivity testing through Monte Carlo sensitivity analyses. Biomedical Signal Processing and Control, 2020, 61, 102030.	5.7	6
83	Seismic behaviour of symmetric friction connections for steel buildings. Engineering Structures, 2020, 224, 111200.	5.3	8
84	Letter to the Editor in response to "COVID-19: desperate times call for desperate measures". Critical Care, 2020, 24, 415.	5.8	0
85	The contribution of gender segregated secondary education on the progression to engineering. Australasian Journal of Engineering Education, 2020, 25, 31-38.	1.4	3
86	Serum fluoride levels following commencement of methoxyflurane for patient analgesia in an ambulance service. British Journal of Anaesthesia, 2020, 125, e457-e458.	3.4	2
87	Prediction of lung mechanics throughout recruitment maneuvers in pressure-controlled ventilation. Computer Methods and Programs in Biomedicine, 2020, 197, 105696.	4.7	22
88	<p>Assessment of Glycemic Control Protocol (STAR) Through Compliance Analysis Amongst Malaysian ICU Patients</p>. Medical Devices: Evidence and Research, 2020, Volume 13, 139-149.	0.8	0
89	Risk and reward: extending stochastic glycaemic control intervals to reduce workload. BioMedical Engineering OnLine, 2020, 19, 26.	2.7	6
90	Parameter updating of a patient-specific lung mechanics model for optimising mechanical ventilation. Biomedical Signal Processing and Control, 2020, 60, 102003.	5.7	14

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91	Incorporating pulse wave velocity into model-based pulse contour analysis method for estimation of cardiac stroke volume. Computer Methods and Programs in Biomedicine, 2020, 195, 105553.	4.7	5
92	Measuring lung mechanics of expiratory tidal breathing with non-invasive breath occlusion. BioMedical Engineering OnLine, 2020, 19, 32.	2.7	5
93	Safe doubling of ventilator capacity: a last resort proposal for last resorts. Critical Care, 2020, 24, 222.	5.8	14
94	Virtual patient trials of a multi-input stochastic model for tight glycaemic control using insulin sensitivity and blood glucose data. Biomedical Signal Processing and Control, 2020, 59, 101896.	5.7	4
95	Clinical application scenarios to handle insulin resistance and high endogenous glucose production for intensive care patients. IFAC-PapersOnLine, 2020, 53, 16299-16304.	0.9	1
96	Model-based PEEP titration versus standard practice in mechanical ventilation: a randomised controlled trial. Trials, 2020, 21, 130.	1.6	22
97	Estimating (unidentifiable) enhanced EGP in glycaemic control modelling: Dancing with minions of the Dark Lord. IFAC-PapersOnLine, 2020, 53, 16155-16160.	0.9	0
98	Artificial Intelligence Based Insulin Sensitivity Prediction for Personalized Glycaemic Control in Intensive Care. IFAC-PapersOnLine, 2020, 53, 16335-16340.	0.9	5
99	Automated structural dynamic modelling using model-free health monitoring results. Bulletin of the New Zealand Society for Earthquake Engineering, 2020, 53, 189-202.	0.5	2
100	Rayleigh Damping Modelling for Tumor Detection using Digital Image Elasto Tomography (DIET). IFAC-PapersOnLine, 2020, 53, 16269-16274.	0.9	0
101	Rayleigh Damping Modelling to Assess Viscous Behaviour in Actuated Breast Tissue. IFAC-PapersOnLine, 2020, 53, 16263-16268.	0.9	0
102	Using the Adapted Levenberg-Marquardt method to determine the validity of ignoring insulin and glucose data that is affected by mixing. IFAC-PapersOnLine, 2020, 53, 16341-16346.	0.9	2
103	Virtual Patient Modeling and Prediction Validation for Pressure Controlled Mechanical Ventilation. IFAC-PapersOnLine, 2020, 53, 16221-16226.	0.9	2
104	Insulin Resistance in ICU Patients: Women Have Stronger Metabolic Response. IFAC-PapersOnLine, 2020, 53, 16203-16208.	0.9	0
105	A Nonlinear Hysteretic Model for Automated Prediction of Lung Mechanics during Mechanical Ventilation. IFAC-PapersOnLine, 2020, 53, 817-822.	0.9	4
106	Safe and effective glycaemic control in premature infants: observational clinical results from the computerised STAR-GRYPHON protocol. Archives of Disease in Childhood: Fetal and Neonatal Edition, 2019, 104, F205-F211.	2.8	8
107	<p>Model-based glycemc control in a Malaysian intensive care unit: performance and safety study</p>. Medical Devices: Evidence and Research, 2019, Volume 12, 215-226.	0.8	12
108	A bootstrap approach for predicting fluoride toxicity in paramedics after occupational methoxyflurane exposure. IFAC Journal of Systems and Control, 2019, 9, 100061.	1.7	1

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109	The state of variability: A vision for descriptors of glycaemia. Annual Reviews in Control, 2019, 48, 472-484.	7.9	7
110	STAR-LiÃge Clinical Trial Interim Results: Safe and Effective Glycemic Control for All. , 2019, 2019, 277-280.		3
111	Editorial: Special Section on Biological Medical Systems. Annual Reviews in Control, 2019, 48, 357-358.	7.9	1
112	A framework for brain learning-based control of smart structures. Advanced Engineering Informatics, 2019, 42, 100986.	8.0	5
113	Experimental Validation of a Radar-Based Structural Health Monitoring System. IEEE/ASME Transactions on Mechatronics, 2019, 24, 2064-2072.	5.8	11
114	Endogenous glucose production parameter estimation for intensive care patients. , 2019, , .		3
115	Clinical Compliance in Personalised Model-based Medical Decision Support: Do computers and interfaces yield better compliance?. IFAC-PapersOnLine, 2019, 51, 341-346.	0.9	2
116	Multi-input stochastic prediction of insulin sensitivity for tight glycaemic control using insulin sensitivity and blood glucose data. Computer Methods and Programs in Biomedicine, 2019, 182, 105043.	4.7	8
117	A subcutaneous insulin pharmacokinetic model for insulin Detemir. Computer Methods and Programs in Biomedicine, 2019, 178, 1-9.	4.7	5
118	Parameter estimation in a minimal model of cardio-pulmonary interactions. Mathematical Biosciences, 2019, 313, 81-94.	1.9	6
119	Quantifying neonatal pulmonary mechanics in mechanical ventilation. Biomedical Signal Processing and Control, 2019, 52, 206-217.	5.7	20
120	Model-based management of cardiovascular failure: Where medicine and control systems converge. Annual Reviews in Control, 2019, 48, 383-391.	7.9	16
121	Glycemic control in the intensive care unit: A control systems perspective. Annual Reviews in Control, 2019, 48, 359-368.	7.9	30
122	Modelling insulin adsorption in intravenous infusion sets in the intensive care unit. IFAC Journal of Systems and Control, 2019, 8, 100042.	1.7	5
123	Predictive Virtual Patient Modelling of Mechanical Ventilation: Impact of Recruitment Function. Annals of Biomedical Engineering, 2019, 47, 1626-1641.	2.5	41
124	Repeatability and High-Speed Validation of Supplemental Lead-Extrusion Energy Dissipation Devices. Advances in Civil Engineering, 2019, 2019, 1-13.	0.7	6
125	Degradation evaluation of lateral story stiffness using HLA-based deep learning networks. Advanced Engineering Informatics, 2019, 39, 259-268.	8.0	27
126	Technical Support of Wound Healing Processes: Project Status. Current Directions in Biomedical Engineering, 2019, 5, 521-523.	0.4	0

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127	3D kernel-density stochastic model for more personalized glycaemic control: development and in-silico validation. <i>BioMedical Engineering OnLine</i> , 2019, 18, 102.	2.7	17
128	A finite element model for insulin adsorption in ICU infusion sets. , 2019, 2019, 1682-1685.		1
129	Steel Building Friction Connection Seismic Performance – Corrosion Effects. <i>Structures</i> , 2019, 19, 96-109.	3.6	4
130	Laser doppler vibrometer validation of an optical flow motion tracking algorithm. <i>Biomedical Signal Processing and Control</i> , 2019, 49, 322-327.	5.7	4
131	Insulin Units and Conversion Factors: A Story of Truth, Boots, and Faster Half-Truths. <i>Journal of Diabetes Science and Technology</i> , 2019, 13, 597-600.	2.2	74
132	Towards Point-of-Care Insulin Detection. <i>ACS Sensors</i> , 2019, 4, 3-19.	7.8	41
133	Practical identifiability analysis of a minimal cardiovascular system model. <i>Computer Methods and Programs in Biomedicine</i> , 2019, 171, 53-65.	4.7	15
134	Evaluation of model-based methods in estimating respiratory mechanics in the presence of variable patient effort. <i>Computer Methods and Programs in Biomedicine</i> , 2019, 171, 67-79.	4.7	26
135	Copula Modelling of Nurses’ Agitation-Sedation Rating of ICU Patients. <i>Communications in Computer and Information Science</i> , 2019, , 148-161.	0.5	4
136	Assessing mechanical ventilation asynchrony through iterative airway pressure reconstruction. <i>Computer Methods and Programs in Biomedicine</i> , 2018, 157, 217-224.	4.7	35
137	Design and Experimental Validation of a Re-centring Viscous Dissipater. <i>Structures</i> , 2018, 13, 193-200.	3.6	17
138	The Need to Calculate Target Glucose Levels When Measuring Changes in Insulin Sensitivity During Interventions for Individuals With Type 2 Diabetes. <i>Journal of Diabetes Science and Technology</i> , 2018, 12, 665-672.	2.2	2
139	Finite element modelling and validation for breast cancer detection using digital image elasto-tomography. <i>Medical and Biological Engineering and Computing</i> , 2018, 56, 1715-1729.	2.8	5
140	Spectral Analysis and Experimental Validation of a Low-Damage Hybrid Dissipater. <i>Key Engineering Materials</i> , 2018, 763, 1007-1013.	0.4	0
141	Generalisability of a Virtual Trials Method for Glycaemic Control in Intensive Care. <i>IEEE Transactions on Biomedical Engineering</i> , 2018, 65, 1543-1553.	4.2	46
142	Accurate and precise prediction of insulin sensitivity variance in critically ill patients. <i>Biomedical Signal Processing and Control</i> , 2018, 39, 327-335.	5.7	5
143	Dynamic Friction Coefficient and Performance of Asymmetric Friction Connections. <i>Structures</i> , 2018, 14, 416-423.	3.6	4
144	Silicone phantom validation of breast cancer tumor detection using nominal stiffness identification in digital imaging elasto-tomography (DIET). <i>Biomedical Signal Processing and Control</i> , 2018, 39, 435-447.	5.7	16

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145	Beat-by-Beat Estimation of the Left Ventricular Pressureâ€œVolume Loop Under Clinical Conditions. <i>Annals of Biomedical Engineering</i> , 2018, 46, 171-185.	2.5	5
146	Continuous Glucose Monitoring Measures Can Be Used for Glycemic Control in the ICU: An In-Silico Study. <i>Journal of Diabetes Science and Technology</i> , 2018, 12, 7-19.	2.2	17
147	Autoregressive Modeling of Drift and Random Error to Characterize a Continuous Intravascular Glucose Monitoring Sensor. <i>Journal of Diabetes Science and Technology</i> , 2018, 12, 90-104.	2.2	11
148	An analysis of the impact of the inclusion of expiration data on the fitting of a predictive pulmonary elastance model. <i>Current Directions in Biomedical Engineering</i> , 2018, 4, 255-258.	0.4	1
149	Basis function identification of lung mechanics in mechanical ventilation for predicting outcomes of therapy changes: A first virtual patient. <i>IFAC-PapersOnLine</i> , 2018, 51, 299-304.	0.9	3
150	Changes in Identified, Model-based Insulin Sensitivity can be used to Improve Risk and Variability Forecasting in Glycaemic Control. <i>IFAC-PapersOnLine</i> , 2018, 51, 311-316.	0.9	1
151	Model based insulin absorption into intravenous infusion sets in adult and neonatal intensive care unitâ€™s. <i>IFAC-PapersOnLine</i> , 2018, 51, 24-29.	0.9	3
152	Comparison of modulated and clinically set nutrition protocolâ€™s for STAR. <i>IFAC-PapersOnLine</i> , 2018, 51, 384-389.	0.9	0
153	An in-silico Study of Using Continuous Glucose Monitoring Measures for Glycaemic Control in the ICU.. <i>IFAC-PapersOnLine</i> , 2018, 51, 361-366.	0.9	0
154	Preliminary results from the STAR-LiÃƒge clinical trial: Virtual trials, safety, performance, and compliance analysis. <i>IFAC-PapersOnLine</i> , 2018, 51, 355-360.	0.9	9
155	Unsupervised Classification based Analysis of the Temporal Pattern of Insulin Sensitivity and Modelling Noise of Patient Groups under Tight Glycemic Control. <i>IFAC-PapersOnLine</i> , 2018, 51, 62-67.	0.9	1
156	Specific compliance: is it truly independent of lung volume?. <i>IFAC-PapersOnLine</i> , 2018, 51, 299-304.	0.9	3
157	Viscous Damping in Actuated Breast Tissue to Detect Tumors in a Digital Image Elasto Tomography (DIET) System. <i>IFAC-PapersOnLine</i> , 2018, 51, 264-269.	0.9	0
158	Lung Mechanics in Premature infants: Modelling and clinical validation. <i>IFAC-PapersOnLine</i> , 2018, 51, 225-230.	0.9	3
159	Development of a Predictive Pulmonary Elastance Model to Describe Lung Mechanics throughout Recruitment Manoeuvres. <i>IFAC-PapersOnLine</i> , 2018, 51, 215-220.	0.9	5
160	Clinical Application of Respiratory Elastance (CARE Trial) for Mechanically Ventilated Respiratory Failure Patients: A Model-based Study. <i>IFAC-PapersOnLine</i> , 2018, 51, 209-214.	0.9	25
161	3D Stochastic Modelling of Insulin Sensitivity in STAR: Virtual trials analysis. <i>IFAC-PapersOnLine</i> , 2018, 51, 128-133.	0.9	0
162	Hidden Markov Models for Sepsis Classification. <i>IFAC-PapersOnLine</i> , 2018, 51, 110-115.	0.9	3

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163	Model-based Modified OGTT Insulin Sensitivity Test Design. IFAC-PapersOnLine, 2018, 51, 86-91.	0.9	4
164	Accurate dicrotic notch detection using adaptive shear transforms. IFAC-PapersOnLine, 2018, 51, 74-79.	0.9	3
165	An Investigation into the Clinical Utility of Transfer Functions between the Aortic and Femoral Pressure Waveforms. IFAC-PapersOnLine, 2018, 51, 68-73.	0.9	2
166	Glycaemic State Analysis from Continuous Glucose Monitoring Measurements in Infants. IFAC-PapersOnLine, 2018, 51, 276-281.	0.9	4
167	Linking Bayesian Network and Intensive Care Units Data: A Glycemic Control Study. , 2018, , .		3
168	Structural health monitoring of tissue mechanics for non-invasive diagnosis of breast cancer. Automatisierungstechnik, 2018, 66, 1037-1050.	0.8	3
169	Blood pressure waveform contour analysis for assessing peripheral resistance changes in sepsis. BioMedical Engineering OnLine, 2018, 17, 171.	2.7	0
170	Biomedical engineerâ€™s guide to the clinical aspects of intensive care mechanical ventilation. BioMedical Engineering OnLine, 2018, 17, 169.	2.7	45
171	Hysteretic Behaviour of Asymmetrical Friction Connections Using Brake Pads of D3923. Structures, 2018, 16, 164-175.	3.6	7
172	Nutrition delivery, workload and performance in a model-based ICU glycaemic control system. Computer Methods and Programs in Biomedicine, 2018, 166, 9-18.	4.7	10
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