

# R Arthur Bouwman

## List of Publications by Year in descending order

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Version: 2024-02-01

109  
papers

3,163  
citations

186265

28  
h-index

175258

52  
g-index

111  
all docs

111  
docs citations

111  
times ranked

4258  
citing authors

#	ARTICLE	IF	CITATIONS
1	Clinical validation of a computerized algorithm to determine mean systemic filling pressure. Journal of Clinical Monitoring and Computing, 2022, 36, 191-198.	1.6	16
2	Identifying adverse drug reactions from free-text electronic hospital health record notes. British Journal of Clinical Pharmacology, 2022, 88, 1235-1245.	2.4	11
3	Medical Instrument Segmentation in 3D US by Hybrid Constrained Semi-Supervised Learning. IEEE Journal of Biomedical and Health Informatics, 2022, 26, 762-773.	6.3	9
4	Diagnostic performance of echocardiography to predict cardiac tamponade after cardiac surgery. European Journal of Cardio-thoracic Surgery, 2022, 62, .	1.4	2
5	Correlation of Carotid Doppler Blood Flow With Invasive Cardiac Output Measurements in Cardiac Surgery Patients. Journal of Cardiothoracic and Vascular Anesthesia, 2022, 36, 1081-1091.	1.3	10
6	Accuracy of vital parameters measured by a wearable patch following major abdominal cancer surgery. European Journal of Surgical Oncology, 2022, 48, 917-923.	1.0	7
7	3D biplane versus conventional 2D ultrasound imaging for internal jugular vein cannulation. Intensive Care Medicine, 2022, 48, 236-237.	8.2	3
8	Preoperative anaemia and outcome after elective cardiac surgery: a Dutch national registry analysis. British Journal of Anaesthesia, 2022, 128, 636-643.	3.4	18
9	Postbariatric EARly discharge Controlled by Healthdot (PEACH) trial: study protocol for a preference-based randomized trial. Trials, 2022, 23, 67.	1.6	7
10	Acoustic lens improves superficial in-plane ultrasound-guided procedures – The significance of the beam width artefact. Journal of Clinical Anesthesia, 2022, 78, 110666.	1.6	3
11	Screening for Mild Cognitive Impairment in the Preoperative Setting: A Narrative Review. Healthcare (Switzerland), 2022, 10, 1112.	2.0	8
12	Continuous remote monitoring in postbariatric surgery patients: development of an early warning protocol. Surgery for Obesity and Related Diseases, 2022, 18, 1298-1303.	1.2	6
13	Efficient and Robust Instrument Segmentation in 3D Ultrasound Using Patch-of-Interest-FuseNet with Hybrid Loss. Medical Image Analysis, 2021, 67, 101842.	11.6	15
14	Intelligent checklists improve checklist compliance in the intensive care unit: a prospective before-and-after mixed-method study. British Journal of Anaesthesia, 2021, 126, 404-414.	3.4	12
15	Validation of Heart Rate Extracted From Wrist-Based Photoplethysmography in the Perioperative Setting: Prospective Observational Study. JMIR Cardio, 2021, 5, e27765.	1.7	3
16	Reliability of heart rate and respiration rate measurements with a wireless accelerometer in postbariatric recovery. PLoS ONE, 2021, 16, e0247903.	2.5	19
17	Evaluation of adding the Erector spinae plane block to standard anesthetic care in patients undergoing posterior lumbar interbody fusion surgery. Scientific Reports, 2021, 11, 7631.	3.3	16
18	Interfascial Plane Blocks Reduce Postoperative Pain and Morphine Consumption in Thoracic Outlet Decompression. Annals of Vascular Surgery, 2020, 66, 301-308.	0.9	10

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19	Liraglutide for perioperative management of hyperglycaemia in cardiac surgery patients: a multicentre randomized superiority trial. <i>Diabetes, Obesity and Metabolism</i> , 2020, 22, 557-565.	4.4	28
20	Testing the effects of checklists on team behaviour during emergencies on general wards: An observational study using high-fidelity simulation. <i>Resuscitation</i> , 2020, 157, 3-12.	3.0	6
21	Method for measurement of arterial compliance by fusion of oscillometry and pulse wave velocity. , 2020, 2020, 469-472.		1
22	Fully automated postoperative ventilation in cardiac surgery patients: a randomised clinical trial. <i>British Journal of Anaesthesia</i> , 2020, 125, 739-749.	3.4	22
23	Acute isotonic hyponatremia after single dose histidine-tryptophan-ketoglutarate cardioplegia: an observational study. <i>Perfusion (United Kingdom)</i> , 2020, 36, 026765912094695.	1.0	4
24	Effects of Liraglutide on Myocardial Function After Cardiac Surgery: A Secondary Analysis of the Randomised Controlled GLOBE Trial. <i>Journal of Clinical Medicine</i> , 2020, 9, 673.	2.4	4
25	A modelling framework for assessment of arterial compliance by fusion of oscillometry and pulse wave velocity information. <i>Computer Methods and Programs in Biomedicine</i> , 2020, 196, 105492.	4.7	11
26	An Angle-Independent Cross-Sectional Doppler Method for Flow Estimation in the Common Carotid Artery. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2020, 67, 1513-1524.	3.0	5
27	Cost-utilization of peripheral intravenous cannulation in hospitalized adults: An observational study. <i>Journal of Vascular Access</i> , 2020, 21, 687-693.	0.9	17
28	User Experience of a Chatbot Questionnaire Versus a Regular Computer Questionnaire: Prospective Comparative Study. <i>JMIR Medical Informatics</i> , 2020, 8, e21982.	2.6	16
29	Barriers to ultrasound guidance for central venous access: a survey among Dutch intensivists and anaesthesiologists. <i>Journal of Clinical Monitoring and Computing</i> , 2019, 33, 1023-1031.	1.6	8
30	The Modified A-DIVA Scale as a Predictive Tool for Prospective Identification of Adult Patients at Risk of a Difficult Intravenous Access: A Multicenter Validation Study. <i>Journal of Clinical Medicine</i> , 2019, 8, 144.	2.4	61
31	Implementation of an automated early warning scoring system in a surgical ward: Practical use and effects on patient outcomes. <i>PLoS ONE</i> , 2019, 14, e0213402.	2.5	14
32	A mathematical model to investigate the effects of intravenous fluid administration and fluid loss. <i>Journal of Biomechanics</i> , 2019, 88, 4-11.	2.1	2
33	Differences in identification of patientsâ€™ deterioration may hamper the success of clinical escalation protocols. <i>QJM - Monthly Journal of the Association of Physicians</i> , 2019, 112, 497-504.	0.5	3
34	Clinical use of electrical stimulation with the Veinplicity <sup>®</sup> device and its effect on the first attempt success rate of peripheral intravenous cannulation: A non-randomized clinical trial. <i>Journal of Vascular Access</i> , 2019, 20, 621-629.	0.9	10
35	Towards flow Estimation in the Common Carotid Artery Using Free-Hand Cross-Sectional Doppler. , 2019, , .		1
36	Post-anaesthesia pulmonary complications after use of muscle relaxants (POPULAR): a multicentre, prospective observational study. <i>Lancet Respiratory Medicine</i> , 2019, 7, 129-140.	10.7	241

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37	Prospective observational cohort study on grading the severity of postoperative complications in global surgery research. <i>British Journal of Surgery</i> , 2019, 106, e73-e80.	0.3	13
38	Letter to the Editor on the original article "Ultrasound-guided peripheral intravenous access placement for children in the emergency department" by Takehito Otani. <i>European Journal of Pediatrics</i> , 2019, 178, 431-432.	2.7	2
39	RegressionExplorer: Interactive Exploration of Logistic Regression Models with Subgroup Analysis. <i>IEEE Transactions on Visualization and Computer Graphics</i> , 2019, 25, 246-255.	4.4	39
40	Establishing the required components for training in ultrasound-guided peripheral intravenous cannulation: a systematic review of available evidence. <i>Medical Ultrasonography</i> , 2019, 21, 464.	0.8	15
41	Pressure gradient vs. flow relationships to characterize the physiology of a severely stenotic aortic valve before and after transcatheter valve implantation. <i>European Heart Journal</i> , 2018, 39, 2646-2655.	2.2	38
42	The surgical safety checklist and patient outcomes after surgery: a prospective observational cohort study, systematic review and meta-analysis. <i>British Journal of Anaesthesia</i> , 2018, 120, 146-155.	3.4	92
43	The RAQET Study: the Effect of Eating a Popsicle Directly After Bariatric Surgery on the Quality of Patient Recovery; a Randomised Controlled Trial. <i>Indian Journal of Surgery</i> , 2018, 80, 245-251.	0.3	2
44	The Hemodynamic Effects of Different Pacing Modalities After Cardiopulmonary Bypass in Patients With Reduced Left Ventricular Function. <i>Journal of Cardiothoracic and Vascular Anesthesia</i> , 2018, 32, 259-266.	1.3	6
45	The safety and efficiency of a fast-track protocol for sleeve gastrectomy: a team approach. <i>Minerva Anestesiologica</i> , 2018, 84, 898-906.	1.0	10
46	Cardiac structure and function before and after bariatric surgery: a clinical overview. <i>Clinical Obesity</i> , 2018, 8, 434-443.	2.0	20
47	Pain upon inserting a peripheral intravenous catheter: Size does not matter. <i>Journal of Vascular Access</i> , 2018, 19, 258-265.	0.9	24
48	Comparison of ultrasound guidance with palpation and direct visualisation for peripheral vein cannulation in adult patients: a systematic review and meta-analysis. <i>British Journal of Anaesthesia</i> , 2018, 121, 358-366.	3.4	104
49	Study protocol of the randomised placebo-controlled GLOBE trial: GLP-1 receptor agonist vs. insulin for glycaemic control during cardiac surgery. <i>BMJ Open</i> , 2018, 8, e022189.	1.9	8
50	Safety of moderate-to-deep sedation performed by sedation practitioners. <i>European Journal of Anaesthesiology</i> , 2018, 35, 659-666.	1.7	18
51	Short-Term Changes in Cardiovascular Hemodynamics in Response to Bariatric Surgery and Weight Loss Using the Nexfin® Non-invasive Continuous Monitoring Device: a Pilot Study. <i>Obesity Surgery</i> , 2017, 27, 1835-1841.	2.1	15
52	Validation of the Nexfin® non-invasive continuous blood pressure monitoring validated against Riva-Rocci/Korotkoff in a bariatric patient population. <i>Journal of Clinical Anesthesia</i> , 2017, 39, 89-95.	1.6	7
53	Improving needle tip identification during ultrasound-guided procedures in anaesthetic practice. <i>Anaesthesia</i> , 2017, 72, 889-904.	3.8	63
54	Noninvasive pulmonary transit time: A new parameter for general cardiac performance. <i>Echocardiography</i> , 2017, 34, 1138-1145.	0.9	14

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55	Use of failure-to-rescue to identify international variation in postoperative care in low-, middle- and high-income countries: a 7-day cohort study of elective surgery. <i>British Journal of Anaesthesia</i> , 2017, 119, 258-266.	3.4	67
56	Intelligent dynamic clinical checklists improved checklist compliance in the intensive care unit. <i>British Journal of Anaesthesia</i> , 2017, 119, 231-238.	3.4	32
57	Myocardial Microvascular Responsiveness During Acute Cardiac Sympathectomy Induced by Thoracic Epidural Anesthesia. <i>Journal of Cardiothoracic and Vascular Anesthesia</i> , 2017, 31, 134-141.	1.3	7
58	Use of Postoperative Peak Arterial Lactate Level to Predict Outcome After Cardiac Surgery. <i>Journal of Cardiothoracic and Vascular Anesthesia</i> , 2017, 31, 45-53.	1.3	36
59	Reducing Caloric Intake Prevents Ischemic Injury and Myocardial Dysfunction and Affects Anesthetic Cardioprotection in Type 2 Diabetic Rats. <i>Journal of Diabetes Research</i> , 2017, 2017, 1-10.	2.3	2
60	Myocardial Perfusion and Function Are Distinctly Altered by Sevoflurane Anesthesia in Diet-Induced Prediabetic Rats. <i>Journal of Diabetes Research</i> , 2016, 2016, 1-9.	2.3	11
61	Development of the A-DIVA Scale. <i>Medicine (United States)</i> , 2016, 95, e3428.	1.0	62
62	The effect of perioperative insulin treatment on cardiodepression in mild adiposity in mice. <i>Cardiovascular Diabetology</i> , 2016, 15, 135.	6.8	3
63	Perioperative respiratory care in obese patients undergoing bariatric surgery: Implications for clinical practice. <i>Respiratory Medicine</i> , 2016, 117, 73-80.	2.9	17
64	Global patient outcomes after elective surgery: prospective cohort study in 27 low-, middle- and high-income countries. <i>British Journal of Anaesthesia</i> , 2016, 117, 601-609.	3.4	400
65	Can Sonography of the Inferior Vena Cava Predict More than Just Intraoperative Hypotension?. <i>Anesthesiology</i> , 2016, 125, 812-813.	2.5	0
66	Pulmonary transit time measurement by contrast-enhanced ultrasound in left ventricular dyssynchrony. <i>Echo Research and Practice</i> , 2016, 3, 35-43.	2.5	9
67	Reliability, repeatability, and reproducibility of pulmonary transit time assessment by contrast enhanced echocardiography. <i>Cardiovascular Ultrasound</i> , 2015, 14, 1.	1.6	15
68	Evaluation of a new double-lumen endobronchial tube with an integrated camera (VivaSight <sup>DL</sup> ): a prospective multicentre observational study. <i>Anaesthesia</i> , 2015, 70, 962-968.	3.8	31
69	Pulmonary blood volume measured by contrast enhanced ultrasound: a comparison with transpulmonary thermodilution. <i>British Journal of Anaesthesia</i> , 2015, 115, 53-60.	3.4	13
70	Reply from the authors: Anaesthetic management during open and percutaneous irreversible electroporation. <i>British Journal of Anaesthesia</i> , 2015, 115, 473-474.	3.4	0
71	The myth of the difficult airway: airway management revisited. <i>Anaesthesia</i> , 2015, 70, 244-249.	3.8	37
72	Phrenic nerve palsy following interscalene brachial plexus block; a long lasting serious complication. <i>Acta Anaesthesiologica Belgica</i> , 2015, 66, 91-4.	0.1	7

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73	Reply from the authors. <i>British Journal of Anaesthesia</i> , 2014, 112, 579-580.	3.4	0
74	Anaesthetic management during open and percutaneous irreversible electroporation. <i>British Journal of Anaesthesia</i> , 2014, 113, 985-992.	3.4	80
75	The Impact of Postoperative Renal Replacement Therapy on Long-Term Outcome After Cardiac Surgery Increases with Age. <i>Journal of Cardiac Surgery</i> , 2014, 29, 464-469.	0.7	4
76	Diaphragm Fiber Strength Is Reduced in Critically Ill Patients and Restored by a Troponin Activator. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2014, 189, 863-865.	5.6	40
77	Cardiovascular autonomic function testing under non-standardised and standardised conditions in cardiovascular patients with type 2 diabetes mellitus. <i>Anaesthesia</i> , 2014, 69, 476-483.	3.8	6
78	Relax, It's Just Laparoscopy! A Prospective Randomized Trial on Heart Rate Variability of the Surgeon in Robot-Assisted versus Conventional Laparoscopic Cholecystectomy. <i>Digestive Surgery</i> , 2014, 31, 225-232.	1.2	53
79	Ablation of colorectal liver metastases by irreversible electroporation: results of the COLDFIRE-I ablate-and-resect study. <i>European Radiology</i> , 2014, 24, 2467-2475.	4.5	76
80	Myocardial blood flow under general anaesthesia with sevoflurane in type 2 diabetic patients: a pilot study. <i>Cardiovascular Diabetology</i> , 2014, 13, 62.	6.8	8
81	Irreversible Electroporation for Nonthermal Tumor Ablation in the Clinical Setting: A Systematic Review of Safety and Efficacy. <i>Journal of Vascular and Interventional Radiology</i> , 2014, 25, 997-1011.	0.5	343
82	Diabetes, perioperative ischaemia and volatile anaesthetics: consequences of derangements in myocardial substrate metabolism. <i>Cardiovascular Diabetology</i> , 2013, 12, 42.	6.8	17
83	Tracheal intubation with a camera embedded in the tube tip (Vivasight <sup>®</sup> ). <i>Anaesthesia</i> , 2013, 68, 74-78.	3.8	24
84	Short-term heart rate variability in healthy adults. <i>Anaesthesia</i> , 2013, 68, 775-777.	3.8	8
85	PS9 - 6. Cardiac microvascular perfusion defects precede insulin resistance in mildly obese mice. <i>Nederlands Tijdschrift Voor Diabetologie</i> , 2013, 11, 169-170.	0.0	0
86	Minimally invasive intraoperative estimation of left-ventricular end-systolic elastance with phenylephrine as loading intervention. <i>British Journal of Anaesthesia</i> , 2013, 111, 750-758.	3.4	3
87	General Anesthesia with Sevoflurane Decreases Myocardial Blood Volume and Hyperemic Blood Flow in Healthy Humans. <i>Anesthesia and Analgesia</i> , 2013, 116, 767-774.	2.2	11
88	In Response. <i>Anesthesia and Analgesia</i> , 2013, 117, 746.	2.2	5
89	Contrast-Enhanced Ultrasound for Myocardial Perfusion Imaging. <i>Anesthesia and Analgesia</i> , 2012, 114, 938-945.	2.2	18
90	I. Minimal invasive cardiac output monitoring: get the dose of fluid right. <i>British Journal of Anaesthesia</i> , 2012, 109, 299-302.	3.4	2

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91	Comparison of noninvasive continuous arterial waveform analysis (Nexfin) with transthoracic Doppler echocardiography for monitoring of cardiac output. <i>Journal of Clinical Anesthesia</i> , 2012, 24, 304-309.	1.6	64
92	High fat diet-induced glucose intolerance impairs myocardial function, but not myocardial perfusion during hyperaemia: a pilot study. <i>Cardiovascular Diabetology</i> , 2012, 11, 74.	6.8	12
93	Selective Diaphragm Muscle Weakness After Contractile Inactivity During Thoracic Surgery. <i>Annals of Surgery</i> , 2011, 254, 1044-1049.	4.2	51
94	Level of agreement between heart rate variability and pulse rate variability in healthy individuals. <i>European Journal of Anaesthesiology</i> , 2011, 28, 34-38.	1.7	27
95	Reproducibility of non-standardised autonomic function testing in the pre-operative assessment screening clinic*. <i>Anaesthesia</i> , 2011, 66, 10-14.	3.8	13
96	Beat-to-Beat Hemodynamic Monitoring During Electroconvulsive Therapy. <i>Journal of ECT</i> , 2011, 27, 189-191.	0.6	11
97	Effect of bupivacaine on sevoflurane-induced preconditioning in isolated rat hearts. <i>European Journal of Pharmacology</i> , 2010, 647, 132-138.	3.5	12
98	Response to Letter Regarding Article, "Reactive Oxygen Species-Induced Stimulation of 5-AMP-Activated Protein Kinase Mediates Sevoflurane-Induced Cardioprotection". <i>Circulation</i> , 2010, 121, .	1.6	3
99	Reactive Oxygen Species-Induced Stimulation of 5-AMP-Activated Protein Kinase Mediates Sevoflurane-Induced Cardioprotection. <i>Circulation</i> , 2009, 120, S10-5.	1.6	79
100	Pericardial Calcification Noted Long after Sydenham's Chorea. <i>New England Journal of Medicine</i> , 2009, 361, 1386-1386.	27.0	2
101	Acute transient thyroid swelling after catheterization of the subclavian vein. <i>Critical Care</i> , 2009, 13, 419.	5.8	7
102	Sevoflurane-induced cardioprotection depends on PKC- $\delta$ activation via production of reactive oxygen species. <i>British Journal of Anaesthesia</i> , 2007, 99, 639-645.	3.4	37
103	Cardioprotection Via Activation of Protein Kinase C- $\delta$ Depends on Modulation of the Reverse Mode of the Na <sup>+</sup> /Ca <sup>2+</sup> Exchanger. <i>Circulation</i> , 2006, 114, 1-226-1-232.	1.6	34
104	The mechanism of sevoflurane-induced cardioprotection is independent of the applied ischaemic stimulus in rat trabeculae. <i>British Journal of Anaesthesia</i> , 2006, 97, 307-314.	3.4	6
105	SIH <sup>2</sup> "a novel lipophilic iron chelator" protects H9c2 cardiomyoblasts from oxidative stress-induced mitochondrial injury and cell death. <i>Journal of Molecular and Cellular Cardiology</i> , 2005, 39, 345-354.	1.9	85
106	Reactive Oxygen Species Precede Protein Kinase C- $\delta$ Activation Independent of Adenosine Triphosphate-sensitive Mitochondrial Channel Opening in Sevoflurane-induced Cardioprotection. <i>Anesthesiology</i> , 2004, 100, 506-514.	2.5	54
107	Adenoviral Vector Transfection into the Pulmonary Epithelium after Cecal Ligation and Puncture in Rats. <i>Anesthesiology</i> , 2001, 95, 974-982.	2.5	30
108	CECAL LIGATION AND DOUBLE PUNCTURE IMPAIRS HEAT SHOCK PROTEIN 70 (HSP-70) EXPRESSION IN THE LUNGS OF RATS. <i>Shock</i> , 2000, 13, 19-23.	2.1	70

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109	ADENOVIRAL VECTOR TRANSFECTION IS DETECTED PRIMARILY IN TYPE II PULMONARY EPITHELIUM AFTER CECAL LIGATION AND PUNCTURE IN RATS. <i>Critical Care Medicine</i> , 1999, 27, A97.	0.9	0