

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	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
2	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
3	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
4	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
5	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
6	SIHâ€”a novel lipophilic iron chelatorâ€”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
7	Anaesthetic management during open and percutaneous irreversible electroporation. <i>British Journal of Anaesthesia</i> , 2014, 113, 985-992.	3.4	80
8	Reactive Oxygen Speciesâ€”Induced Stimulation of 5â€”AMP-Activated Protein Kinase Mediates Sevoflurane-Induced Cardioprotection. <i>Circulation</i> , 2009, 120, S10-5.	1.6	79
9	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
10	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
11	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
12	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
13	Improving needle tip identification during ultrasound-guided procedures in anaesthetic practice. <i>Anaesthesia</i> , 2017, 72, 889-904.	3.8	63
14	Development of the A-DIVA Scale. <i>Medicine (United States)</i> , 2016, 95, e3428.	1.0	62
15	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
16	Reactive Oxygen Species Precede Protein Kinase C-Î” Activation Independent of Adenosine Triphosphateâ€”sensitive Mitochondrial Channel Opening in Sevoflurane-induced Cardioprotection. <i>Anesthesiology</i> , 2004, 100, 506-514.	2.5	54
17	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
18	Selective Diaphragm Muscle Weakness After Contractile Inactivity During Thoracic Surgery. <i>Annals of Surgery</i> , 2011, 254, 1044-1049.	4.2	51

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19	Diaphragm Fiber Strength Is Reduced in Critically Ill Patients and Restored by a Troponin Activator. American Journal of Respiratory and Critical Care Medicine, 2014, 189, 863-865.	5.6	40
20	RegressionExplorer: Interactive Exploration of Logistic Regression Models with Subgroup Analysis. IEEE Transactions on Visualization and Computer Graphics, 2019, 25, 246-255.	4.4	39
21	Pressure gradient vs. flow relationships to characterize the physiology of a severely stenotic aortic valve before and after transcatheter valve implantation. European Heart Journal, 2018, 39, 2646-2655.	2.2	38
22	Sevoflurane-induced cardioprotection depends on PKC- ζ activation via production of reactive oxygen species. British Journal of Anaesthesia, 2007, 99, 639-645.	3.4	37
23	The myth of the difficult airway: airway management revisited. Anaesthesia, 2015, 70, 244-249.	3.8	37
24	Use of Postoperative Peak Arterial Lactate Level to Predict Outcome After Cardiac Surgery. Journal of Cardiothoracic and Vascular Anesthesia, 2017, 31, 45-53.	1.3	36
25	Cardioprotection Via Activation of Protein Kinase C- δ Depends on Modulation of the Reverse Mode of the Na ⁺ /Ca ²⁺ Exchanger. Circulation, 2006, 114, 1-226-1-232.	1.6	34
26	Intelligent dynamic clinical checklists improved checklist compliance in the intensive care unit. British Journal of Anaesthesia, 2017, 119, 231-238.	3.4	32
27	Evaluation of a new double-lumen endobronchial tube with an integrated camera (VivaSight ^{DL}): a prospective multicentre observational study. Anaesthesia, 2015, 70, 962-968.	3.8	31
28	Adenoviral Vector Transfection into the Pulmonary Epithelium after Cecal Ligation and Puncture in Rats. Anesthesiology, 2001, 95, 974-982.	2.5	30
29	Liraglutide for perioperative management of hyperglycaemia in cardiac surgery patients: a multicentre randomized superiority trial. Diabetes, Obesity and Metabolism, 2020, 22, 557-565.	4.4	28
30	Level of agreement between heart rate variability and pulse rate variability in healthy individuals. European Journal of Anaesthesiology, 2011, 28, 34-38.	1.7	27
31	Tracheal intubation with a camera embedded in the tube tip (Vivasight ^{DL}). Anaesthesia, 2013, 68, 74-78.	3.8	24
32	Pain upon inserting a peripheral intravenous catheter: Size does not matter. Journal of Vascular Access, 2018, 19, 258-265.	0.9	24
33	Fully automated postoperative ventilation in cardiac surgery patients: a randomised clinical trial. British Journal of Anaesthesia, 2020, 125, 739-749.	3.4	22
34	Cardiac structure and function before and after bariatric surgery: a clinical overview. Clinical Obesity, 2018, 8, 434-443.	2.0	20
35	Reliability of heart rate and respiration rate measurements with a wireless accelerometer in postbariatric recovery. PLoS ONE, 2021, 16, e0247903.	2.5	19
36	Contrast-Enhanced Ultrasound for Myocardial Perfusion Imaging. Anesthesia and Analgesia, 2012, 114, 938-945.	2.2	18

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37	Safety of moderate-to-deep sedation performed by sedation practitioners. <i>European Journal of Anaesthesiology</i> , 2018, 35, 659-666.	1.7	18
38	Preoperative anaemia and outcome after elective cardiac surgery: a Dutch national registry analysis. <i>British Journal of Anaesthesia</i> , 2022, 128, 636-643.	3.4	18
39	Diabetes, perioperative ischaemia and volatile anaesthetics: consequences of derangements in myocardial substrate metabolism. <i>Cardiovascular Diabetology</i> , 2013, 12, 42.	6.8	17
40	Perioperative respiratory care in obese patients undergoing bariatric surgery: Implications for clinical practice. <i>Respiratory Medicine</i> , 2016, 117, 73-80.	2.9	17
41	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
42	Clinical validation of a computerized algorithm to determine mean systemic filling pressure. <i>Journal of Clinical Monitoring and Computing</i> , 2022, 36, 191-198.	1.6	16
43	Evaluation of adding the Erector spinae plane block to standard anesthetic care in patients undergoing posterior lumbar interbody fusion surgery. <i>Scientific Reports</i> , 2021, 11, 7631.	3.3	16
44	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
45	Reliability, repeatability, and reproducibility of pulmonary transit time assessment by contrast enhanced echocardiography. <i>Cardiovascular Ultrasound</i> , 2015, 14, 1.	1.6	15
46	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
47	Efficient and Robust Instrument Segmentation in 3D Ultrasound Using Patch-of-Interest-FuseNet with Hybrid Loss. <i>Medical Image Analysis</i> , 2021, 67, 101842.	11.6	15
48	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
49	Noninvasive pulmonary transit time: A new parameter for general cardiac performance. <i>Echocardiography</i> , 2017, 34, 1138-1145.	0.9	14
50	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
51	Reproducibility of non-standardised autonomic function testing in the pre-operative assessment screening clinic*. <i>Anaesthesia</i> , 2011, 66, 10-14.	3.8	13
52	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
53	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
54	Effect of bupivacaine on sevoflurane-induced preconditioning in isolated rat hearts. <i>European Journal of Pharmacology</i> , 2010, 647, 132-138.	3.5	12

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55	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
56	Intelligent checklists improve checklist compliance in the intensive care unit: a prospective before-and-after mixed-method study. <i>British Journal of Anaesthesia</i> , 2021, 126, 404-414.	3.4	12
57	Beat-to-Beat Hemodynamic Monitoring During Electroconvulsive Therapy. <i>Journal of ECT</i> , 2011, 27, 189-191.	0.6	11
58	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
59	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
60	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
61	Identifying adverse drug reactions from free-text electronic hospital health record notes. <i>British Journal of Clinical Pharmacology</i> , 2022, 88, 1235-1245.	2.4	11
62	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
63	Clinical use of electrical stimulation with the Veinplicity [®] 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
64	Interfascial Plane Blocks Reduce Postoperative Pain and Morphine Consumption in Thoracic Outlet Decompression. <i>Annals of Vascular Surgery</i> , 2020, 66, 301-308.	0.9	10
65	Correlation of Carotid Doppler Blood Flow With Invasive Cardiac Output Measurements in Cardiac Surgery Patients. <i>Journal of Cardiothoracic and Vascular Anesthesia</i> , 2022, 36, 1081-1091.	1.3	10
66	Medical Instrument Segmentation in 3D US by Hybrid Constrained Semi-Supervised Learning. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2022, 26, 762-773.	6.3	9
67	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
68	Short-term heart rate variability in healthy adults. <i>Anaesthesia</i> , 2013, 68, 775-777.	3.8	8
69	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
70	Study protocol of the randomised placebo-controlled GLOBE trial: GLP-1 receptor agonist treatment and risk stratification of hyperglycaemia during cardiac surgery. <i>BMJ Open</i> , 2018, 8, e022189.	1.9	8
71	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
72	Screening for Mild Cognitive Impairment in the Preoperative Setting: A Narrative Review. <i>Healthcare (Switzerland)</i> , 2022, 10, 1112.	2.0	8

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73	Acute transient thyroid swelling after catheterization of the subclavian vein. <i>Critical Care</i> , 2009, 13, 419.	5.8	7
74	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
75	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
76	Accuracy of vital parameters measured by a wearable patch following major abdominal cancer surgery. <i>European Journal of Surgical Oncology</i> , 2022, 48, 917-923.	1.0	7
77	Postbariatric EARly discharge Controlled by Healthdot (PEACH) trial: study protocol for a preference-based randomized trial. <i>Trials</i> , 2022, 23, 67.	1.6	7
78	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
79	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
80	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
81	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
82	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
83	Continuous remote monitoring in postbariatric surgery patients: development of an early warning protocol. <i>Surgery for Obesity and Related Diseases</i> , 2022, 18, 1298-1303.	1.2	6
84	In Response. <i>Anesthesia and Analgesia</i> , 2013, 117, 746.	2.2	5
85	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
86	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
87	Acute isotonic hyponatremia after single dose histidine-tryptophan-ketoglutarate cardioplegia: an observational study. <i>Perfusion (United Kingdom)</i> , 2020, 36, 026765912094695.	1.0	4
88	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
89	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
90	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

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91	The effect of perioperative insulin treatment on cardiodepression in mild adiposity in mice. <i>Cardiovascular Diabetology</i> , 2016, 15, 135.	6.8	3
92	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
93	Validation of Heart Rate Extracted From Wrist-Based Photoplethysmography in the Perioperative Setting: Prospective Observational Study. <i>JMIR Cardio</i> , 2021, 5, e27765.	1.7	3
94	3D biplane versus conventional 2D ultrasound imaging for internal jugular vein cannulation. <i>Intensive Care Medicine</i> , 2022, 48, 236-237.	8.2	3
95	Acoustic lens improves superficial in-plane ultrasound-guided procedures â€” The significance of the beam width artefact. <i>Journal of Clinical Anesthesia</i> , 2022, 78, 110666.	1.6	3
96	Pericardial Calcification Noted Long after Sydenham's Chorea. <i>New England Journal of Medicine</i> , 2009, 361, 1386-1386.	27.0	2
97	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
98	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
99	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
100	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
101	Letter to the Editor on the original article â€œUltrasound-guided peripheral intravenous access placement for children in the emergency departmentâ€”by â€œTakehito Otaniâ€”. <i>European Journal of Pediatrics</i> , 2019, 178, 431-432.	2.7	2
102	Diagnostic performance of echocardiography to predict cardiac tamponade after cardiac surgery. <i>European Journal of Cardio-thoracic Surgery</i> , 2022, 62, .	1.4	2
103	Towards flow Estimation in the Common Carotid Artery Using Free-Hand Cross-Sectional Doppler. , 2019, , .		1
104	Method for measurement of arterial compliance by fusion of oscillometry and pulse wave velocity. , 2020, 2020, 469-472.		1
105	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
106	Reply from the authors. <i>British Journal of Anaesthesia</i> , 2014, 112, 579-580.	3.4	0
107	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
108	Can Sonography of the Inferior Vena Cava Predict More than Just Intraoperative Hypotension?. <i>Anesthesiology</i> , 2016, 125, 812-813.	2.5	0

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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