

# Alain F Kalmar

## List of Publications by Year in descending order

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56  
papers

1,357  
citations

331670

21  
h-index

345221

36  
g-index

57  
all docs

57  
docs citations

57  
times ranked

1359  
citing authors

#	ARTICLE	IF	CITATIONS
1	Influence of steep Trendelenburg position and CO <sub>2</sub> pneumoperitoneum on cardiovascular, cerebrovascular, and respiratory homeostasis during robotic prostatectomy. <i>British Journal of Anaesthesia</i> , 2010, 104, 433-439.	3.4	200
2	Reversal of Rocuronium-Induced Neuromuscular Block with the Novel Drug Sugammadex Is Equally Effective Under Maintenance Anesthesia with Propofol or Sevoflurane. <i>Anesthesia and Analgesia</i> , 2007, 104, 563-568.	2.2	124
3	Value of Cushing reflex as warning sign for brain ischaemia during neuroendoscopy – This work was performed at the Department of Anaesthesia, Ghent University Hospital, Ghent, Belgium.. <i>British Journal of Anaesthesia</i> , 2005, 94, 791-799.	3.4	66
4	Excessive chest compression rate is associated with insufficient compression depth in prehospital cardiac arrest. <i>Resuscitation</i> , 2012, 83, 1319-1323.	3.0	66
5	Comparison of continuous non-invasive finger arterial pressure monitoring with conventional intermittent automated arm arterial pressure measurement in patients under general anaesthesia. <i>British Journal of Anaesthesia</i> , 2014, 113, 67-74.	3.4	65
6	Time course of inhaled anaesthetic drug delivery using a new multifunctional closed-circuit anaesthesia ventilator. In vitro comparison with a classical anaesthesia machine –. <i>British Journal of Anaesthesia</i> , 2005, 94, 306-317.	3.4	61
7	Accuracy of non-invasive measurement of haemoglobin concentration by pulse co-oximetry during steady-state and dynamic conditions in liver surgery. <i>British Journal of Anaesthesia</i> , 2012, 109, 522-528.	3.4	56
8	Comparison of arterial pressure and plethysmographic waveform-based dynamic preload variables in assessing fluid responsiveness and dynamic arterial tone in patients undergoing major hepatic resection. <i>British Journal of Anaesthesia</i> , 2013, 110, 940-946.	3.4	50
9	Cerebral haemodynamic physiology during steep Trendelenburg position and CO <sub>2</sub> pneumoperitoneum. <i>British Journal of Anaesthesia</i> , 2012, 108, 478-484.	3.4	46
10	Phenylephrine increases cardiac output by raising cardiac preload in patients with anesthesia induced hypotension. <i>Journal of Clinical Monitoring and Computing</i> , 2018, 32, 969-976.	1.6	44
11	Accuracy of the Composite Variability Index as a Measure of the Balance Between Nociception and Antinociception During Anesthesia. <i>Anesthesia and Analgesia</i> , 2014, 119, 288-301.	2.2	42
12	Differential effects of phenylephrine and norepinephrine on peripheral tissue oxygenation during general anaesthesia. <i>European Journal of Anaesthesiology</i> , 2015, 32, 571-580.	1.7	39
13	Inhaled Anesthetics: Environmental Role, Occupational Risk, and Clinical Use. <i>Journal of Clinical Medicine</i> , 2021, 10, 1306.	2.4	35
14	Optic Nerve Sheath Diameter Remains Constant during Robot Assisted Laparoscopic Radical Prostatectomy. <i>PLoS ONE</i> , 2014, 9, e111916.	2.5	34
15	Transfer of normal 99mTc-ECD brain SPET databases between different gamma cameras. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2001, 28, 435-449.	2.1	33
16	Noninvasive pulse pressure variation and stroke volume variation to predict fluid responsiveness at multiple thresholds: a prospective observational study. <i>Canadian Journal of Anaesthesia</i> , 2015, 62, 1153-1160.	1.6	33
17	Patients with cardiac arrest are ventilated two times faster than guidelines recommend: An observational prehospital study using tracheal pressure measurement. <i>Resuscitation</i> , 2013, 84, 921-926.	3.0	32
18	Comparisons of Electroencephalographically Derived Measures of Hypnosis and Antinociception in Response to Standardized Stimuli During Target-Controlled Propofol-Remifentanyl Anesthesia. <i>Anesthesia and Analgesia</i> , 2016, 122, 382-392.	2.2	28

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19	Management practices for postdural puncture headache in obstetrics: a prospective, international, cohort study. <i>British Journal of Anaesthesia</i> , 2020, 125, 1045-1055.	3.4	25
20	Tissue oxygenation as a target for goal-directed therapy in high-risk surgery: a pilot study. <i>BMC Anesthesiology</i> , 2014, 14, 122.	1.8	22
21	Pulmonary gas exchange is well preserved during robot assisted surgery in steep Trendelenburg position. <i>Acta Anaesthesiologica Belgica</i> , 2009, 60, 229-33.	0.1	22
22	A novel method to detect accidental oesophageal intubation based on ventilation pressure waveforms. <i>Resuscitation</i> , 2012, 83, 177-182.	3.0	19
23	Prophylactic atropine administration attenuates the negative haemodynamic effects of induction of anaesthesia with propofol and high-dose remifentanyl. <i>European Journal of Anaesthesiology</i> , 2017, 34, 695-701.	1.7	16
24	Exceptional Clinical Observation: Total Brain Ischemia During Normal Intracranial Pressure Readings Caused by Obstruction of the Outflow of a Neuroendoscope. <i>Journal of Neurosurgical Anesthesiology</i> , 2005, 17, 175-176.	1.2	15
25	Anesthetic Considerations for Robotic Surgery in the Steep Trendelenburg Position. <i>Advances in Anesthesia</i> , 2012, 30, 75-96.	0.9	15
26	Bispectral index values and propofol concentrations at loss and return of consciousness in patients with frontal brain tumours and control patients. <i>British Journal of Anaesthesia</i> , 2014, 112, 110-117.	3.4	15
27	Chest compressions during ventilation in out-of-hospital cardiac arrest cause reversed airflow. <i>Resuscitation</i> , 2018, 129, 97-102.	3.0	15
28	A Novel Design for Steerable Instruments Based on Laser-Cut Nitinol. <i>Surgical Innovation</i> , 2014, 21, 303-311.	0.9	14
29	Influence of an increased intracranial pressure on cerebral and systemic haemodynamics during endoscopic neurosurgery: an animal model. <i>British Journal of Anaesthesia</i> , 2009, 102, 361-368.	3.4	13
30	Ventilation and outcomes following robotic-assisted abdominal surgery: an international, multicentre observational study. <i>British Journal of Anaesthesia</i> , 2021, 126, 533-543.	3.4	13
31	The effect of fluid resuscitation on the effective circulating volume in patients undergoing liver surgery: a post-hoc analysis of a randomized controlled trial. <i>Journal of Clinical Monitoring and Computing</i> , 2018, 32, 73-80.	1.6	9
32	Hemodynamics and tissue oxygenation during balanced anesthesia with a high antinociceptive contribution: an observational study. <i>Perioperative Medicine (London, England)</i> , 2014, 3, 9.	1.5	8
33	Brain changes due to hypoxia during light anaesthesia can be prevented by deepening anaesthesia; a study in rats. <i>PLoS ONE</i> , 2018, 13, e0193062.	2.5	8
34	Clinical and Radiological Outcomes of Hallux Rigidus Treated With Cheilectomy and a Moberg-Akin Osteotomy. <i>Foot and Ankle International</i> , 2020, 41, 294-302.	2.3	8
35	Long-term pressure monitoring with arterial applanation tonometry: A non-invasive alternative during clinical intervention?. <i>Technology and Health Care</i> , 2008, 16, 183-193.	1.2	6
36	Complete mesocolic excision does not increase short-term complications in laparoscopic left-sided colectomies: a comparative retrospective single-center study. <i>Langenbeck's Archives of Surgery</i> , 2019, 404, 557-564.	1.9	6

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37	Lower Extremity Near-infrared Spectroscopy After Popliteal Block For Orthopaedic Foot Surgery. The Open Orthopaedics Journal, 2016, 10, 258-263.	0.2	6
38	The use of the trendelenburg position in the surgical treatment of extreme cerebellar slump. British Journal of Neurosurgery, 2016, 30, 115-119.	0.8	5
39	International multicenter observational study on assessment of ventilatory management during general anaesthesia for robotic surgery and its effects on postoperative pulmonary complication (AVATaR): study protocol and statistical analysis plan. BMJ Open, 2018, 8, e021643.	1.9	5
40	Comparison of haemodynamic- and electroencephalographic-monitored effects evoked by four combinations of effect-site concentrations of propofol and remifentanyl, yielding a predicted tolerance to laryngoscopy of 90%. Journal of Clinical Monitoring and Computing, 2021, 35, 815-825.	1.6	5
41	Steep Trendelenburg position, intracranial pressure, and dexamethasone. British Journal of Anaesthesia, 2010, 105, 548-549.	3.4	4
42	Pressure monitoring during neuroendoscopy: new insights. British Journal of Anaesthesia, 2011, 107, 218-224.	3.4	4
43	Improved haemodynamic stability and cerebral tissue oxygenation after induction of anaesthesia with sufentanil compared to remifentanyl: a randomised controlled trial. BMC Anesthesiology, 2020, 20, 258.	1.8	4
44	Perioperative Calibration of Noninvasive Hemoglobin Monitoring. Anesthesia and Analgesia, 2014, 118, 481.	2.2	3
45	Is the Human Brain Capable of Controlling Seven Degrees of Freedom?. Journal of Surgical Research, 2019, 238, 1-9.	1.6	3
46	Heart rate and the assessment of changes in venous return after phenylephrine. Journal of Applied Physiology, 2013, 114, 1646-1646.	2.5	2
47	Automatic detection of oesophageal intubation based on ventilation pressure waveforms shows high sensitivity and specificity in patients with pulmonary disease. Resuscitation, 2016, 105, 36-40.	3.0	2
48	Articulated Instruments and 3D Visualization: A Synergy? Evaluation of Execution Time, Errors, and Visual Fatigue. Surgical Innovation, 2019, 26, 456-463.	0.9	2
49	Minimizing sevoflurane wastage by sensible use of automated gas control technology in the flow-i workstation: an economic and ecological assessment. Journal of Clinical Monitoring and Computing, 2022, 36, 1601-1610.	1.6	2
50	Long-term pressure monitoring with arterial applanation tonometry: a non-invasive alternative during clinical intervention?. Technology and Health Care, 2008, 16, 183-93.	1.2	2
51	Carbon Footprint of Anesthesia: Comment. Anesthesiology, 2022, , .	2.5	2
52	The Validity of Eadyn in Spontaneously Breathing Patients. Anesthesia and Analgesia, 2015, 121, 1400.	2.2	1
53	A novel hybrid 3D endoscope zooming and repositioning system: Design and feasibility study. International Journal of Medical Robotics and Computer Assisted Surgery, 2020, 16, e2050.	2.3	1
54	Reply from the authors: Are we ready for non-invasive blood pressure monitoring?â€”reply. British Journal of Anaesthesia, 2015, 115, 130-131.	3.4	0

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55	Needle-Assisted Laparoendoscopic Single-Site Radical Prostatectomy Using a New Series of Steerable Instruments: Feasible Option to Overcome Current Limits?. Videourology (New Rochelle, N Y ), 2018, 32, .	0.1	0
56	Life cycle assessment of memsorb use. Journal of Clinical Monitoring and Computing, 2022, 36, 1569-1571.	1.6	0