

Gareth L Ackland

List of Publications by Year in descending order

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Version: 2024-02-01

106
papers

6,423
citations

126858

33
h-index

69214

77
g-index

116
all docs

116
docs citations

116
times ranked

6258
citing authors

#	ARTICLE	IF	CITATIONS
1	Myocardial Injury after Noncardiac Surgery. <i>Anesthesiology</i> , 2014, 120, 564-578.	1.3	740
2	Effect of a Perioperative, Cardiac Outputâ€“Guided Hemodynamic Therapy Algorithm on Outcomes Following Major Gastrointestinal Surgery. <i>JAMA - Journal of the American Medical Association</i> , 2014, 311, 2181.	3.8	718
3	Association of Postoperative High-Sensitivity Troponin Levels With Myocardial Injury and 30-Day Mortality Among Patients Undergoing Noncardiac Surgery. <i>JAMA - Journal of the American Medical Association</i> , 2017, 317, 1642.	3.8	579
4	Perioperative Quality Initiative consensus statement on intraoperative blood pressure, risk and outcomes for elective surgery. <i>British Journal of Anaesthesia</i> , 2019, 122, 563-574.	1.5	342
5	Assessment of functional capacity before major non-cardiac surgery: an international, prospective cohort study. <i>Lancet, The</i> , 2018, 391, 2631-2640.	6.3	317
6	Functional Oxygen Sensitivity of Astrocytes. <i>Journal of Neuroscience</i> , 2015, 35, 10460-10473.	1.7	219
7	Cardioprotection evoked by remote ischaemic preconditioning is critically dependent on the activity of vagal pre-ganglionic neurones. <i>Cardiovascular Research</i> , 2012, 95, 487-494.	1.8	187
8	Cardioprotection, attenuated systemic inflammation, and survival benefit of Î² ₁ -adrenoceptor blockade in severe sepsis in rats*. <i>Critical Care Medicine</i> , 2010, 38, 388-394.	0.4	181
9	Association between complications and death within 30 days after noncardiac surgery. <i>Cmaj</i> , 2019, 191, E830-E837.	0.9	181
10	A Prospective International Multicentre Cohort Study of Intraoperative Heart Rate and Systolic Blood Pressure and Myocardial Injury After Noncardiac Surgery: Results of the VISION Study. <i>Anesthesia and Analgesia</i> , 2018, 126, 1936-1945.	1.1	151
11	International Consensus Based Review and Recommendations for Minimum Reporting Standards in Research on Transcutaneous Vagus Nerve Stimulation (Version 2020). <i>Frontiers in Human Neuroscience</i> , 2020, 14, 568051.	1.0	143
12	Remote ischaemic preâ€“and delayed postconditioning â€“ similar degree of cardioprotection but distinct mechanisms. <i>Experimental Physiology</i> , 2012, 97, 908-917.	0.9	128
13	Perioperative Quality Initiative consensus statement on preoperative blood pressure, risk and outcomes for elective surgery. <i>British Journal of Anaesthesia</i> , 2019, 122, 552-562.	1.5	127
14	Effectiveness of a national quality improvement programme to improve survival after emergency abdominal surgery (EPOCH): a stepped-wedge cluster-randomised trial. <i>Lancet, The</i> , 2019, 393, 2213-2221.	6.3	123
15	Chronic Kidney Disease and Postoperative Morbidity After Elective Orthopedic Surgery. <i>Anesthesia and Analgesia</i> , 2011, 112, 1375-1381.	1.1	122
16	Individualised oxygen delivery targeted haemodynamic therapy in high-risk surgical patients: a multicentre, randomised, double-blind, controlled, mechanistic trial. <i>Lancet Respiratory Medicine</i> , the, 2015, 3, 33-41.	5.2	105
17	Mechanisms of CO ₂ /H ⁺ Sensitivity of Astrocytes. <i>Journal of Neuroscience</i> , 2016, 36, 10750-10758.	1.7	101
18	Preoperative N-Terminal Proâ€“B-Type Natriuretic Peptide and Cardiovascular Events After Noncardiac Surgery. <i>Annals of Internal Medicine</i> , 2020, 172, 96.	2.0	99

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19	Understanding gastrointestinal perfusion in critical care: so near, and yet so far. <i>Critical Care</i> , 2000, 4, 269.	2.5	86
20	Integration of the Duke Activity Status Index into preoperative risk evaluation: a multicentre prospective cohort study. <i>British Journal of Anaesthesia</i> , 2020, 124, 261-270.	1.5	83
21	Control of ventricular excitability by neurons of the dorsal motor nucleus of the vagus nerve. <i>Heart Rhythm</i> , 2015, 12, 2285-2293.	0.3	82
22	Glucagon-like peptide-1 (GLP-1) mediates cardioprotection by remote ischaemic conditioning. <i>Cardiovascular Research</i> , 2016, 112, 669-676.	1.8	81
23	Preoperative systemic inflammation and perioperative myocardial injury: prospective observational multicentre cohort study of patients undergoing non-cardiac surgery. <i>British Journal of Anaesthesia</i> , 2019, 122, 180-187.	1.5	78
24	Redefining the perioperative stress response: a narrative review. <i>British Journal of Anaesthesia</i> , 2019, 123, 570-583.	1.5	77
25	Inflammation and Epidural-Related Maternal Fever: Proposed Mechanisms. <i>Anesthesia and Analgesia</i> , 2016, 122, 1546-1553.	1.1	76
26	Perioperative Quality Initiative consensus statement on postoperative blood pressure, risk and outcomes for elective surgery. <i>British Journal of Anaesthesia</i> , 2019, 122, 575-586.	1.5	68
27	Perioperative Quality Initiative consensus statement on the physiology of arterial blood pressure control in perioperative medicine. <i>British Journal of Anaesthesia</i> , 2019, 122, 542-551.	1.5	66
28	Myocardial Injury After Noncardiac Surgery (MINS) in Vascular Surgical Patients. <i>Annals of Surgery</i> , 2018, 268, 357-363.	2.1	65
29	Vagal determinants of exercise capacity. <i>Nature Communications</i> , 2017, 8, 15097.	5.8	55
30	Cardiac Vagus and Exercise. <i>Physiology</i> , 2019, 34, 71-80.	1.6	55
31	Preoperative muscle weakness as defined by handgrip strength and postoperative outcomes: a systematic review. <i>BMC Anesthesiology</i> , 2012, 12, 1.	0.7	38
32	Heart rate variability in critical care medicine: a systematic review. <i>Intensive Care Medicine Experimental</i> , 2017, 5, 33.	0.9	38
33	β 1-Adrenoceptor distribution in the rat brain: An immunohistochemical study. <i>Neuroscience Letters</i> , 2009, 458, 84-88.	1.0	37
34	Perioperative blood transfusion is associated with a gene transcription profile characteristic of immunosuppression: a prospective cohort study. <i>Critical Care</i> , 2014, 18, 541.	2.5	36
35	Baroreflex impairment and morbidity after major surgery. <i>British Journal of Anaesthesia</i> , 2016, 117, 324-331.	1.5	33
36	Low-molecular-weight polyethylene glycol improves survival in experimental sepsis*. <i>Critical Care Medicine</i> , 2010, 38, 629-636.	0.4	32

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37	Perioperative fluid therapy. <i>BMJ, The</i> , 2012, 344, e2865-e2865.	3.0	31
38	Early elevation in plasma high-sensitivity troponin T and morbidity after elective noncardiac surgery: prospective multicentre observational cohort study. <i>British Journal of Anaesthesia</i> , 2020, 124, 535-543.	1.5	31
39	Peripheral Neural Detection of Dangerâ€Associated and Pathogenâ€Associated Molecular Patterns. <i>Critical Care Medicine</i> , 2013, 41, e85-e92.	0.4	30
40	Autonomic regulation of systemic inflammation in humans: A multi-center, blinded observational cohort study. <i>Brain, Behavior, and Immunity</i> , 2018, 67, 47-53.	2.0	30
41	Molecular Mechanisms Linking Autonomic Dysfunction and Impaired Cardiac Contractility in Critical Illness*. <i>Critical Care Medicine</i> , 2016, 44, e614-e624.	0.4	29
42	Metabolic dysfunction in lymphocytes promotes postoperative morbidity. <i>Clinical Science</i> , 2015, 129, 423-437.	1.8	28
43	Astrocytes and Brain Hypoxia. <i>Advances in Experimental Medicine and Biology</i> , 2016, 903, 201-207.	0.8	28
44	Low-dose Propofol Infusion for Controlling Acute Hyperspasticity after Withdrawal of Intrathecal Baclofen Therapy. <i>Anesthesiology</i> , 2005, 103, 663-665.	1.3	27
45	Optogenetic Stimulation of Vagal Efferent Activity Preserves Left Ventricular Function in Experimental Heart Failure. <i>JACC Basic To Translational Science</i> , 2020, 5, 799-810.	1.9	27
46	Distinct cardioprotective mechanisms of immediate, early and delayed ischaemic postconditioning. <i>Basic Research in Cardiology</i> , 2015, 110, 452.	2.5	25
47	Selective optogenetic stimulation of efferent fibers in the vagus nerve of a large mammal. <i>Brain Stimulation</i> , 2021, 14, 88-96.	0.7	24
48	Red nucleus inhibits breathing during hypoxia in neonates. <i>Respiration Physiology</i> , 1997, 110, 251-260.	2.8	23
49	Dehydration Induced by Bowel Preparation in Older Adults Does Not Result in Cognitive Dysfunction. <i>Anesthesia and Analgesia</i> , 2008, 106, 924-929.	1.1	22
50	Cardiac vagal dysfunction and myocardial injury after non-cardiac surgery: a planned secondary analysis of the measurement of Exercise Tolerance before surgery study. <i>British Journal of Anaesthesia</i> , 2019, 122, 188-197.	1.5	22
51	Biomarkers to guide perioperative management. <i>Postgraduate Medical Journal</i> , 2011, 87, 542-549.	0.9	20
52	Post-operative immune suppression is mediated via reversible, Interleukin-10 dependent pathways in circulating monocytes following major abdominal surgery. <i>PLoS ONE</i> , 2018, 13, e0203795.	1.1	20
53	NMDA receptor modulation of glutamate release in activated neutrophils. <i>EBioMedicine</i> , 2019, 47, 457-469.	2.7	20
54	MicroRNA signatures of perioperative myocardial injury after elective noncardiac surgery: a prospective observational mechanistic cohort study. <i>British Journal of Anaesthesia</i> , 2020, 125, 661-671.	1.5	19

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55	Defining higher-risk surgery. <i>Current Opinion in Critical Care</i> , 2010, 16, 339-346.	1.6	17
56	Presepsin: solving a soluble (CD14) problem in sepsis?. <i>Intensive Care Medicine</i> , 2015, 41, 351-353.	3.9	17
57	Hypotension as a marker or mediator of perioperative organ injury: a narrative review. <i>British Journal of Anaesthesia</i> , 2022, 128, 915-930.	1.5	17
58	Negative Pressure Pulmonary Edema as an Unsuspected Imitator of Acute Lung Injury/ARDS. <i>Chest</i> , 2005, 127, 1867-1868.	0.4	15
59	Acquired loss of cardiac vagal activity is associated with myocardial injury in patients undergoing noncardiac surgery: prospective observational mechanistic cohort study. <i>British Journal of Anaesthesia</i> , 2019, 123, 758-767.	1.5	15
60	Subclinical cardiopulmonary dysfunction in stage 3 chronic kidney disease. <i>Open Heart</i> , 2016, 3, e000370.	0.9	14
61	Arterial pulse pressure and postoperative morbidity in high-risk surgical patients. <i>British Journal of Anaesthesia</i> , 2018, 120, 94-100.	1.5	14
62	Heart rate recovery and morbidity after noncardiac surgery: Planned secondary analysis of two prospective, multi-centre, blinded observational studies. <i>PLoS ONE</i> , 2019, 14, e0221277.	1.1	14
63	The effect of general anaesthetics on brain lactate release. <i>European Journal of Pharmacology</i> , 2020, 881, 173188.	1.7	14
64	Knowing the risk? NCEPOD 2011: a wake-up call for perioperative practice. <i>British Journal of Hospital Medicine (London, England: 2005)</i> , 2012, 73, 262-264.	0.2	12
65	Cardiopulmonary Exercise Capacity and Preoperative Markers of Inflammation. <i>Mediators of Inflammation</i> , 2014, 2014, 1-8.	1.4	12
66	Perioperative management of angiotensin-converting enzyme inhibitors and/or angiotensin receptor blockers: a survey of perioperative medicine practitioners. <i>PeerJ</i> , 2018, 6, e5061.	0.9	12
67	Prospective observational study of postoperative infection and outcomes after noncardiac surgery: analysis of prospective data from the VISION cohort. <i>British Journal of Anaesthesia</i> , 2020, 125, 87-97.	1.5	12
68	Electroencephalography-guided anaesthetic administration does not impact postoperative delirium among older adults undergoing major surgery: an independent discussion of the ENGAGES trial. <i>British Journal of Anaesthesia</i> , 2019, 123, 112-117.	1.5	11
69	Chronotropic incompetence and myocardial injury after noncardiac surgery: planned secondary analysis of a prospective observational international cohort study. <i>British Journal of Anaesthesia</i> , 2019, 123, 17-26.	1.5	11
70	The potential for autonomic neuromodulation to reduce perioperative complications and pain: a systematic review and meta-analysis. <i>British Journal of Anaesthesia</i> , 2022, 128, 135-149.	1.5	10
71	Postoperative goal-directed therapy and development of acute kidney injury following major elective noncardiac surgery: post-hoc analysis of POM-O randomized controlled trial. <i>CKJ: Clinical Kidney Journal</i> , 2017, 10, sfw118.	1.4	9
72	Uncontrolled sepsis: a systematic review of translational immunology studies in intensive care medicine. <i>Intensive Care Medicine Experimental</i> , 2014, 2, 6.	0.9	8

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73	Sympathetic autonomic dysfunction and impaired cardiovascular performance in higher risk surgical patients: implications for perioperative sympatholysis. <i>Open Heart</i> , 2015, 2, e000268.	0.9	8
74	Mode of blood pressure monitoring and morbidity after noncardiac surgery. <i>European Journal of Anaesthesiology</i> , 2021, 38, 468-476.	0.7	6
75	Preoperative lymphopaenia, mortality, and morbidity after elective surgery: systematic review and meta-analysis. <i>British Journal of Anaesthesia</i> , 2021, 127, 32-40.	1.5	6
76	Chemical labelling of active serum thioester proteins for quantification. <i>Immunobiology</i> , 2012, 217, 256-264.	0.8	5
77	Big Data. <i>Anesthesia and Analgesia</i> , 2016, 122, 1744-1747.	1.1	5
78	Reply: Glucagon-like peptide-1 mediates cardioprotection by remote ischaemic conditioning. <i>Cardiovascular Research</i> , 2017, 113, 13.2-14.	1.8	5
79	Neuromodulation of innate immunity by remote ischaemic conditioning in humans: Experimental cross-over study. <i>Brain, Behavior, & Immunity - Health</i> , 2021, 16, 100299.	1.3	5
80	Non-inferiority of retrospective data collection for assessing perioperative morbidity. <i>PeerJ</i> , 2015, 3, e1466.	0.9	5
81	Novel biomarkers in critical care: utility or futility?. <i>Critical Care</i> , 2007, 11, 175.	2.5	4
82	Vagal Modulation of Atrial Fibrillation. <i>Journal of the American College of Cardiology</i> , 2015, 66, 977-978.	1.2	4
83	Reducing the dose of neuromuscular blocking agents with adjuncts: a systematic review and meta-analysis. <i>British Journal of Anaesthesia</i> , 2021, 126, 608-621.	1.5	4
84	Administration of intrapulmonary sodium polyacrylate to induce lung injury for the development of a porcine model of early acute respiratory distress syndrome. <i>Intensive Care Medicine Experimental</i> , 2014, 2, 5.	0.9	3
85	Man is the new mouse: Elective surgery as a key translational model for multi-organ dysfunction and sepsis. <i>Journal of the Intensive Care Society</i> , 2015, 16, 154-163.	1.1	3
86	Intra-operative heart rate and postoperative outcomes – rowing against the tide?. <i>European Journal of Anaesthesiology</i> , 2019, 36, 90-92.	0.7	3
87	Salvaging remote ischaemic preconditioning as a therapy for perioperative acute kidney injury. <i>British Journal of Anaesthesia</i> , 2020, 124, 8-12.	1.5	3
88	Preprints in perioperative medicine: immediacy for the greater good. <i>British Journal of Anaesthesia</i> , 2021, 126, 915-918.	1.5	3
89	Sex-specific differences in cardiac function, inflammation and injury during early polymicrobial sepsis. <i>Intensive Care Medicine Experimental</i> , 2022, 10, .	0.9	3
90	Proteomic signatures for perioperative oxygen delivery in skin after major elective surgery: mechanistic sub-study of a randomised controlled trial. <i>British Journal of Anaesthesia</i> , 2021, 127, 511-520.	1.5	2

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91	Interleukin-1 receptor antagonist, mode of analgesia and risk of Caesarean delivery after onset of labour: a Mendelian randomisation analysis. <i>British Journal of Anaesthesia</i> , 2022, 128, 89-97.	1.5	2
92	Trans-auricular vagus nerve stimulation to reduce perioperative pain and morbidity: protocol for a single-blind analyser-masked randomised controlled trial. , 2022, 2, 100017.		2
93	Acute, Severe Hypoglycemia Occurring During General Anesthesia in a Nondiabetic Adult. <i>Anesthesia and Analgesia</i> , 2007, 105, 553-554.	1.1	1
94	Is the Ventilatory Decline Seen in Newborns during Hypoxaemia Centrally Mediated?. <i>Advances in Experimental Medicine and Biology</i> , 1994, 360, 345-348.	0.8	1
95	Perioperative beta-blockade: beyond myocardial ischaemia. <i>British Journal of Hospital Medicine (London, England: 2005)</i> , 2006, 67, 276-276.	0.2	0
96	Heart Failure and Perioperative Care. <i>Refresher Courses in Anesthesiology</i> , 2015, 43, 7-14.	0.1	0
97	Individualised targeted haemodynamic therapy in high-risk surgical patients – Authors' reply. <i>Lancet Respiratory Medicine</i> , 2015, 3, e14-e15.	5.2	0
98	Bupivacaine reduces release of interleukin-1 receptor antagonist from circulating neutrophils obtained from women in active labour. <i>British Journal of Anaesthesia</i> , 2019, 123, e497.	1.5	0
99	Autonomic Dysfunction in Shock. <i>Lessons From the ICU</i> , 2019, , 71-80.	0.1	0
100	Serial proteomic characterisation of skin during the perioperative period. <i>British Journal of Anaesthesia</i> , 2019, 123, e511-e512.	1.5	0
101	Orthostatic autonomic dysfunction is associated with postoperative morbidity in patients undergoing noncardiac surgery. <i>British Journal of Anaesthesia</i> , 2019, 123, e509-e510.	1.5	0
102	What happens to the autonomic nervous system in critical illness?. , 2020, , 279-284.e1.		0
103	The Inflammatory Response to Surgery. , 2022, , 9-15.		0
104	Physiology of the Gastrointestinal Tract Including Splanchnic Blood Flow and Tonometry. , 2006, , 1-12.		0
105	Reply to: Monitors are not a treatment. <i>European Journal of Anaesthesiology</i> , 2022, 39, 180.	0.7	0
106	Metformin and mortality after surgery: a systematic review and meta-analysis. <i>British Journal of Anaesthesia</i> , 2022, , .	1.5	0