

Denny Z Levett

List of Publications by Year in descending order

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Version: 2024-02-01

90
papers

6,207
citations

101543

36
h-index

71685

76
g-index

92
all docs

92
docs citations

92
times ranked

7224
citing authors

#	ARTICLE	IF	CITATIONS
1	Elective surgery cancellations due to the COVID-19 pandemic: global predictive modelling to inform surgical recovery plans. <i>British Journal of Surgery</i> , 2020, 107, 1440-1449.	0.3	931
2	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
3	Arterial Blood Gases and Oxygen Content in Climbers on Mount Everest. <i>New England Journal of Medicine</i> , 2009, 360, 140-149.	27.0	399
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.	3.4	342
5	Assessment of functional capacity before major non-cardiac surgery: an international, prospective cohort study. <i>Lancet, The</i> , 2018, 391, 2631-2640.	13.7	317
6	Perioperative cardiopulmonary exercise testing (CPET): consensus clinical guidelines on indications, organization, conduct, and physiological interpretation. <i>British Journal of Anaesthesia</i> , 2018, 120, 484-500.	3.4	313
7	The Postoperative Morbidity Survey was validated and used to describe morbidity after major surgery. <i>Journal of Clinical Epidemiology</i> , 2007, 60, 919-928.	5.0	214
8	Cerebral Artery Dilatation Maintains Cerebral Oxygenation at Extreme Altitude and in Acute Hypoxia—An Ultrasound and MRI Study. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2011, 31, 2019-2029.	4.3	187
9	Metabolic basis to Sherpa altitude adaptation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 6382-6387.	7.1	162
10	Cardiopulmonary Exercise Testing and Surgery. <i>Annals of the American Thoracic Society</i> , 2017, 14, S74-S83.	3.2	155
11	Psychological factors, prehabilitation and surgical outcomes: evidence and future directions. <i>Anaesthesia</i> , 2019, 74, 36-42.	3.8	143
12	Acclimatization of skeletal muscle mitochondria to high-altitude hypoxia during an ascent of Everest. <i>FASEB Journal</i> , 2012, 26, 1431-1441.	0.5	138
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.	3.4	127
14	Critical care admission following elective surgery was not associated with survival benefit: prospective analysis of data from 27 countries. <i>Intensive Care Medicine</i> , 2017, 43, 971-979.	8.2	108
15	The role of nitrogen oxides in human adaptation to hypoxia. <i>Scientific Reports</i> , 2011, 1, 109.	3.3	103
16	Preparing the patient for surgery to improve outcomes. <i>Bailliere's Best Practice and Research in Clinical Anaesthesiology</i> , 2016, 30, 145-157.	4.0	102
17	Postoperative acute kidney injury in adult non-cardiac surgery: joint consensus report of the Acute Disease Quality Initiative and PeriOperative Quality Initiative. <i>Nature Reviews Nephrology</i> , 2021, 17, 605-618.	9.6	94
18	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

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19	Bubble trouble: a review of diving physiology and disease. <i>Postgraduate Medical Journal</i> , 2008, 84, 571-578.	1.8	88
20	Cardiac response to hypobaric hypoxia: persistent changes in cardiac mass, function, and energy metabolism after a trek to Mt. Everest Base Camp. <i>FASEB Journal</i> , 2011, 25, 792-796.	0.5	85
21	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.	3.4	83
22	Cardiopulmonary exercise testing, prehabilitation, and Enhanced Recovery After Surgery (ERAS). <i>Canadian Journal of Anaesthesia</i> , 2015, 62, 131-142.	1.6	73
23	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.	3.4	68
24	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.	3.4	66
25	Fit for surgery? Perspectives on preoperative exercise testing and training. <i>British Journal of Anaesthesia</i> , 2017, 119, i34-i43.	3.4	65
26	Exercise prehabilitation may lead to augmented tumor regression following neoadjuvant chemoradiotherapy in locally advanced rectal cancer. <i>Acta Oncologica</i> , 2019, 58, 588-595.	1.8	55
27	Noninvasive ventilation for COVID-19-associated acute hypoxaemic respiratory failure: experience from a single centre. <i>British Journal of Anaesthesia</i> , 2020, 125, e368-e371.	3.4	51
28	Measurement of Exercise Tolerance before Surgery (METS) study: a protocol for an international multicentre prospective cohort study of cardiopulmonary exercise testing prior to major non-cardiac surgery. <i>BMJ Open</i> , 2016, 6, e010359.	1.9	50
29	The Effect of High-Altitude on Human Skeletal Muscle Energetics: 31P-MRS Results from the Caudwell Xtreme Everest Expedition. <i>PLoS ONE</i> , 2010, 5, e10681.	2.5	50
30	Cardiopulmonary Exercise Testing for Risk Prediction in Major Abdominal Surgery. <i>Anesthesiology Clinics</i> , 2015, 33, 1-16.	1.4	48
31	Design and conduct of Caudwell Xtreme Everest: an observational cohort study of variation in human adaptation to progressive environmental hypoxia. <i>BMC Medical Research Methodology</i> , 2010, 10, 98.	3.1	46
32	Perioperative management of patients with pulmonary hypertension undergoing non-cardiothoracic, non-obstetric surgery: a systematic review and expert consensus statement. <i>British Journal of Anaesthesia</i> , 2021, 126, 774-790.	3.4	45
33	Adjunctive hyperbaric oxygen for necrotizing fasciitis. <i>The Cochrane Library</i> , 2018, 2018, CD007937.	2.8	43
34	Variation in human performance in the hypoxic mountain environment. <i>Experimental Physiology</i> , 2010, 95, 463-470.	2.0	42
35	Effects of Prolonged Exposure to Hypobaric Hypoxia on Oxidative Stress, Inflammation and Gluco-Insular Regulation: The Not-So-Sweet Price for Good Regulation. <i>PLoS ONE</i> , 2014, 9, e94915.	2.5	42
36	Myosteatosis is associated with poor physical fitness in patients undergoing hepatopancreatobiliary surgery. <i>Journal of Cachexia, Sarcopenia and Muscle</i> , 2019, 10, 860-871.	7.3	42

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37	A comparison of the quality of image acquisition between the incident dark field and sidestream dark field video-microscopes. <i>BMC Medical Imaging</i> , 2016, 16, 10.	2.7	41
38	Abnormal blood flow in the sublingual microcirculation at high altitude. <i>European Journal of Applied Physiology</i> , 2009, 106, 473-478.	2.5	40
39	Changes in muscle proteomics in the course of the Caudwell Research Expedition to Mt. Everest. <i>Proteomics</i> , 2015, 15, 160-171.	2.2	38
40	Sublingual microcirculatory blood flow and vessel density in Sherpas at high altitude. <i>Journal of Applied Physiology</i> , 2017, 122, 1011-1018.	2.5	36
41	TCA cycle rewiring fosters metabolic adaptation to oxygen restriction in skeletal muscle from rodents and humans. <i>Scientific Reports</i> , 2017, 7, 9723.	3.3	35
42	Changes in sublingual microcirculatory flow index and vessel density on ascent to altitude. <i>Experimental Physiology</i> , 2010, 95, 880-891.	2.0	33
43	Current Landscape of Nutrition Within Prehabilitation Oncology Research: A Scoping Review. <i>Frontiers in Nutrition</i> , 2021, 8, 644723.	3.7	33
44	Metabolomic and lipidomic plasma profile changes in human participants ascending to Everest Base Camp. <i>Scientific Reports</i> , 2019, 9, 2297.	3.3	31
45	Clinical characteristics and outcome of critically ill COVID-19 patients with acute kidney injury: a single centre cohort study. <i>BMC Nephrology</i> , 2021, 22, 92.	1.8	31
46	Does hypoxia play a role in the development of sarcopenia in humans? Mechanistic insights from the Caudwell Xtreme Everest Expedition. <i>Redox Biology</i> , 2017, 13, 60-68.	9.0	30
47	Changes in acute pulmonary vascular responsiveness to hypoxia during a progressive ascent to high altitude (5300Åm). <i>Experimental Physiology</i> , 2017, 102, 711-724.	2.0	28
48	Caudwell Xtreme Everest Expedition. <i>High Altitude Medicine and Biology</i> , 2010, 11, 133-137.	0.9	27
49	A simplified (modified) Duke Activity Status Index (M-DASI) to characterise functional capacity: a secondary analysis of the Measurement of Exercise Tolerance before Surgery (METS) study. <i>British Journal of Anaesthesia</i> , 2021, 126, 181-190.	3.4	27
50	Caudwell Xtreme Everest: A prospective study of the effects of environmental hypoxia on cognitive functioning. <i>PLoS ONE</i> , 2017, 12, e0174277.	2.5	26
51	The use of bioelectrical impedance analysis to predict post-operative complications in adult patients having surgery for cancer: A systematic review. <i>Clinical Nutrition</i> , 2021, 40, 2914-2922.	5.0	22
52	Changes in skeletal muscle oxygenation during exercise measured by near-infrared spectroscopy on ascent to altitude. <i>Critical Care</i> , 2009, 13, S7.	5.8	20
53	The Young Everest Study: effects of hypoxia at high altitude on cardiorespiratory function and general well-being in healthy children. <i>Archives of Disease in Childhood</i> , 2009, 94, 621-626.	1.9	20
54	Stroke at High Altitude Diagnosed in the Field Using Portable Ultrasound. <i>Wilderness and Environmental Medicine</i> , 2011, 22, 54-57.	0.9	20

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55	Design and methodology of SNAP-1: a Sprint National Anaesthesia Project to measure patient reported outcome after anaesthesia. <i>Perioperative Medicine (London, England)</i> , 2015, 4, 4.	1.5	19
56	The Young Everest Study: preliminary report of changes in sleep and cerebral blood flow velocity during slow ascent to altitude in unacclimatised children. <i>Archives of Disease in Childhood</i> , 2013, 98, 356-362.	1.9	16
57	The Use of Skeletal Muscle Near Infrared Spectroscopy and a Vascular Occlusion Test at High Altitude. <i>High Altitude Medicine and Biology</i> , 2013, 14, 256-262.	0.9	16
58	Systemic oxygen extraction during exercise at high altitude. <i>British Journal of Anaesthesia</i> , 2015, 114, 677-682.	3.4	16
59	Cardiopulmonary Exercise Testing for Preoperative Evaluation: What Does the Future Hold?. <i>Current Anesthesiology Reports</i> , 2020, 10, 1-11.	2.0	16
60	Design and conduct of Xtreme Everest 2: An observational cohort study of Sherpa and lowlander responses to graduated hypobaric hypoxia. <i>F1000Research</i> , 2015, 4, 90.	1.6	16
61	Association of preoperative anaemia with cardiopulmonary exercise capacity and postoperative outcomes in noncardiac surgery: a substudy of the Measurement of Exercise Tolerance before Surgery (METS) Study. <i>British Journal of Anaesthesia</i> , 2019, 123, 161-169.	3.4	15
62	Design and conduct of "Xtreme Alps": A double-blind, randomised controlled study of the effects of dietary nitrate supplementation on acclimatisation to high altitude. <i>Contemporary Clinical Trials</i> , 2013, 36, 450-459.	1.8	13
63	Xtreme Everest 2: unlocking the secrets of the Sherpa phenotype?. <i>Extreme Physiology and Medicine</i> , 2013, 2, 30.	2.5	13
64	Genetic Factors Associated with Exercise Performance in Atmospheric Hypoxia. <i>Sports Medicine</i> , 2015, 45, 745-761.	6.5	13
65	Sustained vasomotor control of skin microcirculation in Sherpas <i>versus</i> altitude-naïve lowlanders: Experimental evidence from Xtreme Everest 2. <i>Experimental Physiology</i> , 2018, 103, 1494-1504.	2.0	11
66	High altitude-related hypertensive crisis and acute kidney injury in an asymptomatic healthy individual. <i>Extreme Physiology and Medicine</i> , 2016, 5, 10.	2.5	9
67	Exercise Testing, Supplemental Oxygen, and Hypoxia. <i>Annals of the American Thoracic Society</i> , 2017, 14, S140-S148.	3.2	9
68	ASA scores in the preoperative patient: feedback to clinicians can improve data quality. <i>Journal of Evaluation in Clinical Practice</i> , 2007, 13, 318-319.	1.8	8
69	Inter-observer reliability of preoperative cardiopulmonary exercise test interpretation: a cross-sectional study. <i>British Journal of Anaesthesia</i> , 2018, 120, 475-483.	3.4	8
70	Effects of dietary nitrate supplementation on microvascular physiology at 4559m altitude " A randomised controlled trial (Xtreme Alps). <i>Nitric Oxide - Biology and Chemistry</i> , 2020, 94, 27-35.	2.7	8
71	Prehabilitation. <i>European Journal of Anaesthesiology</i> , 2020, 37, 259-262.	1.7	8
72	Physiological responses during ascent to high altitude and the incidence of acute mountain sickness. <i>Physiological Reports</i> , 2021, 9, e14809.	1.7	8

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73	Cardiopulmonary exercise testing has greater prognostic value than sarcopenia in oesophago-gastric cancer patients undergoing neoadjuvant therapy and surgical resection. <i>Journal of Surgical Oncology</i> , 2021, 124, 1306-1316.	1.7	8
74	Enhanced flow-motion complexity of skin microvascular perfusion in Sherpas and lowlanders during ascent to high altitude. <i>Scientific Reports</i> , 2019, 9, 14391.	3.3	7
75	Development and evaluation of a novel pre-operative surgery school and behavioural change intervention for patients undergoing elective major surgery: Fit4Surgery School. <i>Anaesthesia</i> , 2021, 76, 1207-1211.	3.8	7
76	Oral Coenzyme Q10 Supplementation Does Not Prevent Cardiac Alterations During a High Altitude Trek to Everest Base Camp. <i>High Altitude Medicine and Biology</i> , 2014, 15, 459-467.	0.9	6
77	Resuscitation fluids in trauma 1: why give fluid and how to give it. <i>Trauma</i> , 2006, 8, 47-53.	0.5	5
78	In-hospital clinical outcomes after upper gastrointestinal surgery: Data from an international observational study. <i>European Journal of Surgical Oncology</i> , 2017, 43, 2324-2332.	1.0	5
79	Exercise Training Induces a Shift in Extracellular Redox Status with Alterations in the Pulmonary and Systemic Redox Landscape in Asthma. <i>Antioxidants</i> , 2021, 10, 1926.	5.1	5
80	A capaciflector provides continuous and accurate respiratory rate monitoring for patients at rest and during exercise. <i>Journal of Clinical Monitoring and Computing</i> , 2022, 36, 1535-1546.	1.6	5
81	The Smell of Hypoxia: using an electronic nose at altitude and proof of concept of its role in the prediction and diagnosis of acute mountain sickness. <i>Physiological Reports</i> , 2018, 6, e13854.	1.7	4
82	Exercise physiology: exercise performance at altitude. <i>Current Opinion in Physiology</i> , 2019, 10, 210-218.	1.8	4
83	Exercise testing for pre-operative evaluation. , 0, , 251-279.		4
84	Perioperative Risk Stratification and Modification. <i>Anesthesiology Clinics</i> , 2022, 40, e1-e23.	1.4	4
85	The effects of cancer therapies on physical fitness before oesophagogastric cancer surgery: a prospective, blinded, multi-centre, observational, cohort study. <i>NIHR Open Research</i> , 2021, 1, 1.	0.0	2
86	Everest 60 years on: what next?. <i>Extreme Physiology and Medicine</i> , 2013, 2, 20.	2.5	1
87	Caudwell Xtreme Everest: An Overview. <i>Advances in Experimental Medicine and Biology</i> , 2016, 903, 427-437.	1.6	1
88	Can we measure the quality of perioperative care?. <i>British Journal of Hospital Medicine</i> , 2002, 63, 188-188.	0.2	0
89	Mt Everest trek causes impaired cardiac high energy phosphate metabolism and diastolic impairment. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2009, 11, .	3.3	0
90	Tricks of the trade: delivering reliable healthcare. <i>Anaesthesia</i> , 2018, 73, 671-674.	3.8	0