

# David R Hillman

## List of Publications by Year in descending order

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Version: 2024-02-01

84  
papers

7,381  
citations

76326

40  
h-index

64796

79  
g-index

86  
all docs

86  
docs citations

86  
times ranked

10326  
citing authors

#	ARTICLE	IF	CITATIONS
1	New genetic loci implicated in fasting glucose homeostasis and their impact on type 2 diabetes risk. <i>Nature Genetics</i> , 2010, 42, 105-116.	21.4	1,982
2	Collapsibility of the Upper Airway at Different Concentrations of Propofol Anesthesia. <i>Anesthesiology</i> , 2005, 103, 470-477.	2.5	292
3	The Economic Cost of Sleep Disorders. <i>Sleep</i> , 2006, 29, 299-305.	1.1	277
4	Society of Anesthesia and Sleep Medicine Guidelines on Preoperative Screening and Assessment of Adult Patients With Obstructive Sleep Apnea. <i>Anesthesia and Analgesia</i> , 2016, 123, 452-473.	2.2	258
5	Treating Obstructive Sleep Apnea with Hypoglossal Nerve Stimulation. <i>Sleep</i> , 2011, 34, 1479-1486.	1.1	229
6	A Genome-Wide Association Search for Type 2 Diabetes Genes in African Americans. <i>PLoS ONE</i> , 2012, 7, e29202.	2.5	197
7	Dental Side Effects of an Oral Device to Treat Snoring and Obstructive Sleep Apnea. <i>Sleep</i> , 1999, 22, 237-240.	1.1	188
8	Evolution of Changes in Upper Airway Collapsibility during Slow Induction of Anesthesia with Propofol. <i>Anesthesiology</i> , 2009, 111, 63-71.	2.5	186
9	Comparison of upper airway collapse during general anaesthesia and sleep. <i>Lancet, The</i> , 2002, 359, 1207-1209.	13.7	164
10	Sex Differences in the Association of Regional Fat Distribution with the Severity of Obstructive Sleep Apnea. <i>Sleep</i> , 2010, 33, 467-474.	1.1	155
11	Physiologic Responses to Incremental and Self-Paced Exercise in COPD. <i>Chest</i> , 2004, 126, 766-773.	0.8	150
12	Collapsibility of the Upper Airway during Anesthesia with Isoflurane. <i>Anesthesiology</i> , 2002, 97, 786-793.	2.5	148
13	Severity of OSA Is an Independent Predictor of Incident Atrial Fibrillation Hospitalization in a Large Sleep-Clinic Cohort. <i>Chest</i> , 2015, 148, 945-952.	0.8	148
14	Quantitative Upper Airway Imaging with Anatomic Optical Coherence Tomography. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2006, 173, 226-233.	5.6	143
15	Public health implications of sleep loss: the community burden. <i>Medical Journal of Australia</i> , 2013, 199, S7-10.	1.7	121
16	Hypoglossal nerve stimulation improves obstructive sleep apnea: 12-month outcomes. <i>Journal of Sleep Research</i> , 2014, 23, 77-83.	3.2	118
17	High prevalence of undiagnosed obstructive sleep apnoea in the general population and methods for screening for representative controls. <i>Sleep and Breathing</i> , 2013, 17, 967-973.	1.7	117
18	Perioperative management of obstructive sleep apnea in bariatric surgery: a consensus guideline. <i>Surgery for Obesity and Related Diseases</i> , 2017, 13, 1095-1109.	1.2	116

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19	Elastic Properties of the Central Airways in Obstructive Lung Diseases Measured Using Anatomical Optical Coherence Tomography. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2011, 183, 612-619.	5.6	108
20	Excessive Daytime Sleepiness Increases the Risk of Motor Vehicle Crash in Obstructive Sleep Apnea. <i>Journal of Clinical Sleep Medicine</i> , 2013, 09, 1013-1021.	2.6	106
21	Depressive Symptoms before and after Treatment of Obstructive Sleep Apnea in Men and Women. <i>Journal of Clinical Sleep Medicine</i> , 2015, 11, 1029-1038.	2.6	104
22	In vivo size and shape measurement of the human upper airway using endoscopic long-range optical coherence tomography. <i>Optics Express</i> , 2003, 11, 1817.	3.4	100
23	Evaluation of pharyngeal shape and size using anatomical optical coherence tomography in individuals with and without obstructive sleep apnoea. <i>Journal of Sleep Research</i> , 2008, 17, 230-238.	3.2	93
24	Obstructive sleep apnoea and anaesthesia. <i>Sleep Medicine Reviews</i> , 2004, 8, 459-471.	8.5	91
25	Effect of Body Posture on Pharyngeal Shape and Size in Adults With and Without Obstructive Sleep Apnea. <i>Sleep</i> , 2008, 31, 1543-1549.	1.1	87
26	Bilateral hypoglossal nerve stimulation for treatment of adult obstructive sleep apnoea. <i>European Respiratory Journal</i> , 2020, 55, 1901320.	6.7	87
27	Obstructive Sleep Apnoea: From pathogenesis to treatment: Current controversies and future directions. <i>Respirology</i> , 2010, 15, 587-595.	2.3	86
28	Heterogeneous activity of the human genioglossus muscle assessed by multiple bipolar fine-wire electrodes. <i>Journal of Applied Physiology</i> , 2003, 94, 1849-1858.	2.5	70
29	Gastro-oesophageal reflux symptoms are related to the presence and severity of obstructive sleep apnoea. <i>Journal of Sleep Research</i> , 2011, 20, 241-249.	3.2	67
30	Multiethnic Meta-Analysis Identifies <i>RAI1</i> as a Possible Obstructive Sleep Apnea-related Quantitative Trait Locus in Men. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2018, 58, 391-401.	2.9	65
31	Influence of head extension, flexion, and rotation on collapsibility of the passive upper airway. <i>Sleep</i> , 2008, 31, 1440-7.	1.1	64
32	Estimating Maximum Work Rate During Incremental Cycle Ergometry Testing From Six-Minute Walk Distance in Patients With Chronic Obstructive Pulmonary Disease. <i>Archives of Physical Medicine and Rehabilitation</i> , 2008, 89, 1782-1787.	0.9	62
33	Using Optical Coherence Tomography To Improve Diagnostic and Therapeutic Bronchoscopy. <i>Chest</i> , 2009, 136, 272-276.	0.8	62
34	Applying anatomical optical coherence tomography to quantitative 3D imaging of the lower airway. <i>Optics Express</i> , 2008, 16, 17521.	3.4	60
35	Variability of human upper airway collapsibility during sleep and the influence of body posture and sleep stage. <i>Journal of Sleep Research</i> , 2011, 20, 533-537.	3.2	56
36	Ground-based walking training improves quality of life and exercise capacity in COPD. <i>European Respiratory Journal</i> , 2014, 44, 885-894.	6.7	56

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37	Physical Inactivity Is Associated with Moderate-Severe Obstructive Sleep Apnea. <i>Journal of Clinical Sleep Medicine</i> , 2015, 11, 1091-1099.	2.6	50
38	Interrelationships between Body Mass, Oxygen Desaturation, and Apnea-Hypopnea Indices in a Sleep Clinic Population. <i>Sleep</i> , 2012, 35, 89-96.	1.1	47
39	Anesthesia, Sleep, and Upper Airway Collapsibility. <i>Anesthesiology Clinics</i> , 2010, 28, 443-455.	1.4	46
40	The impact of continuous positive airway pressure on the lower esophageal sphincter. <i>American Journal of Physiology - Renal Physiology</i> , 2007, 292, G1200-G1205.	3.4	45
41	Airway narrowing assessed by anatomical optical coherence tomography in vitro: dynamic airway wall morphology and function. <i>Journal of Applied Physiology</i> , 2010, 108, 401-411.	2.5	42
42	The prevalence of common sleep disorders in young adults: a descriptive population-based study. <i>Sleep</i> , 2020, 43, .	1.1	42
43	Radiofrequency Tissue Volume Reduction of the Soft Palate in Simple Snoring. <i>JAMA Otolaryngology</i> , 2000, 126, 602.	1.2	39
44	Upper Airway Collapsibility during Dexmedetomidine and Propofol Sedation in Healthy Volunteers. <i>Anesthesiology</i> , 2019, 131, 962-973.	2.5	39
45	Continuous positive airway pressure titration for obstructive sleep apnoea: automatic versus manual titration. <i>Thorax</i> , 2010, 65, 606-611.	5.6	38
46	Anatomical Optical Coherence Tomography for Long-Term, Portable, Quantitative Endoscopy. <i>IEEE Transactions on Biomedical Engineering</i> , 2008, 55, 1438-1446.	4.2	37
47	A Comprehensive Evaluation of a Two-Channel Portable Monitor to Rule in Obstructive Sleep Apnea. <i>Journal of Clinical Sleep Medicine</i> , 2015, 11, 433-444.	2.6	37
48	Effect of surface tension of mucosal lining liquid on upper airway mechanics in anesthetized humans. <i>Journal of Applied Physiology</i> , 2003, 95, 357-363.	2.5	36
49	Modulation of upper and lower esophageal sphincter tone during sleep. <i>Sleep Medicine</i> , 2007, 8, 135-143.	1.6	35
50	Continuous positive airway pressure. <i>Critical Care Medicine</i> , 1985, 13, 38-43.	0.9	28
51	Effect of the velopharynx on intraluminal pressures in reconstructed pharynges derived from individuals with and without sleep apnea. <i>Journal of Biomechanics</i> , 2013, 46, 2504-2512.	2.1	28
52	Effects of ground-based walking training on daily physical activity in people with COPD: A randomised controlled trial. <i>Respiratory Medicine</i> , 2017, 132, 139-145.	2.9	28
53	Associations of variants in the hexokinase 1 and interleukin 18 receptor regions with oxyhemoglobin saturation during sleep. <i>PLoS Genetics</i> , 2019, 15, e1007739.	3.5	28
54	Influence of Head Extension, Flexion, and Rotation on Collapsibility of the Passive Upper Airway. <i>Sleep</i> , 2008, , .	1.1	27

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55	Respiratory gating of anatomical optical coherence tomography images of the human airway. <i>Optics Express</i> , 2009, 17, 6568.	3.4	26
56	Anaesthetic management of sleep-disordered breathing in adults. <i>Respirology</i> , 2017, 22, 230-239.	2.3	25
57	Control of OSA During Automatic Positive Airway Pressure Titration in a Clinical Case Series: Predictors and Accuracy of Device Download Data. <i>Sleep</i> , 2012, 35, 1277-1283.	1.1	24
58	Postoperative Sleep Disturbances. <i>Advances in Anesthesia</i> , 2017, 35, 1-24.	0.9	22
59	Distribution of airway narrowing responses across generations and at branching points, assessed in vitro by anatomical optical coherence tomography. <i>Respiratory Research</i> , 2010, 11, 9.	3.6	21
60	Effects on upper airway collapsibility of presence of a pharyngeal catheter. <i>Journal of Sleep Research</i> , 2015, 24, 92-99.	3.2	21
61	Comparison of Collapsibility of the Human Upper Airway During Anesthesia and During Sleep. <i>Anesthesia and Analgesia</i> , 2020, 130, 1008-1017.	2.2	19
62	The effect of diaphragm contraction on upper airway collapsibility. <i>Journal of Applied Physiology</i> , 2013, 115, 337-345.	2.5	17
63	Whole-genome association analyses of sleep-disordered breathing phenotypes in the NHLBI TOPMed program. <i>Genome Medicine</i> , 2021, 13, 136.	8.2	16
64	Feasibility of Applying Real-time Optical Imaging During Bronchoscopic Interventions for Central Airway Obstruction. <i>Journal of Bronchology and Interventional Pulmonology</i> , 2010, 17, 307-316.	1.4	11
65	Does smooth muscle in an intact airway undergo length adaptation during a sustained change in transmural pressure?. <i>Journal of Applied Physiology</i> , 2015, 118, 533-543.	2.5	11
66	Effects of Ongoing Feedback During a 12-Month Maintenance Walking Program on Daily Physical Activity in People with COPD. <i>Lung</i> , 2019, 197, 315-319.	3.3	11
67	Obstructive sleep apnoea and nocturnal gastroesophageal reflux are common in lung transplant patients. <i>Respirology</i> , 2008, 13, 1045-1052.	2.3	10
68	Opioid Modeling of Central Respiratory Drive Must Take Upper Airway Obstruction into Account. <i>Anesthesiology</i> , 2011, 114, 219-220.	2.5	10
69	Discerning depressive symptoms in patients with obstructive sleep apnea: the effect of continuous positive airway pressure therapy on Hamilton Depression Rating Scale symptoms. <i>Sleep</i> , 2018, 41, .	1.1	8
70	People With COPD Who Respond to Ground-Based Walking Training Are Characterized by Lower Pre-training Exercise Capacity and Better Lung Function and Have Greater Progression in Walking Training Distance. <i>Journal of Cardiopulmonary Rehabilitation and Prevention</i> , 2019, 39, 338-343.	2.1	4
71	The effect of temazepam on assessment of severity of obstructive sleep apnea by polysomnography. <i>Sleep and Breathing</i> , 2019, 23, 49-56.	1.7	4
72	Is Continuous Positive Airway Pressure All There Is? Alternative Perioperative Treatments for Obstructive Sleep Apnea. <i>Anesthesiology</i> , 2022, 137, 1-3.	2.5	3

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73	Sleep, anesthesia, and the upper airway. <i>Seminars in Anesthesia</i> , 2007, 26, 65-72.	0.3	2
74	Upper Airway, Obstructive Sleep Apnea, and Anesthesia. <i>Sleep Medicine Clinics</i> , 2013, 8, 23-28.	2.6	2
75	Cohort profile: The Western Australian Sleep health study, a prospective sleep clinic cohort study. <i>Sleep Epidemiology</i> , 2021, 1, 100010.	1.6	2
76	CPAP with Minimal Work of Breathing. <i>Chest</i> , 1986, 90, 151.	0.8	1
77	Respiratory gating of endoscopic OCT images of the upper airway. , 2008, , .		1
78	In vivo 4D imaging of the human lower airway using anatomical optical coherence tomography. , 2009, , .		1
79	Subspecialization and Clinical Guidelines. <i>Anesthesia and Analgesia</i> , 2018, 127, 815-816.	2.2	1
80	The minimal detectable difference for endurance shuttle walk test performance in people with COPD on completion of a program of high-intensity ground-based walking. <i>Respiratory Medicine</i> , 2019, 146, 18-22.	2.9	1
81	Anesthesia, Sleep, and Nasendoscopy. <i>Anesthesia and Analgesia</i> , 2014, 119, 753-754.	2.2	0
82	The Growing Role of Sleep Medicine in Anesthesia Care. <i>ASA Monitor</i> , 2021, 85, 43-44.	0.1	0
83	Treatment options for obstructive sleep apnea. <i>International Anesthesiology Clinics</i> , 2022, Publish Ahead of Print, .	0.8	0
84	Sleep and anesthesia. , 2021, , .		0