

David F Dinges

List of Publications by Citations

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Version: 2024-04-28

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

99
papers

6,459
citations

38
h-index

80
g-index

103
ext. papers

7,741
ext. citations

5.1
avg, IF

6.39
L-index

#	Paper	IF	Citations
99	Behavioral and Physiological Consequences of Sleep Restriction. <i>Journal of Clinical Sleep Medicine</i> , 2007 , 03, 519-528	3.1	794
98	Sleep deprivation and vigilant attention. <i>Annals of the New York Academy of Sciences</i> , 2008 , 1129, 305-226.5		749
97	An overview of sleepiness and accidents. <i>Journal of Sleep Research</i> , 1995 , 4, 4-14	5.8	595
96	A survey screen for prediction of apnea. <i>Sleep</i> , 1995 , 18, 158-66	1.1	378
95	The NASA Twins Study: A multidimensional analysis of a year-long human spaceflight. <i>Science</i> , 2019 , 364,	33.3	300
94	Absence of Diurnal Variation of C-Reactive Protein Concentrations in Healthy Human Subjects. <i>Clinical Chemistry</i> , 2001 , 47, 426-430	5.5	284
93	Validity and Sensitivity of a Brief Psychomotor Vigilance Test (PVT-B) to Total and Partial Sleep Deprivation. <i>Acta Astronautica</i> , 2011 , 69, 949-959	2.9	212
92	Caffeine eliminates psychomotor vigilance deficits from sleep inertia. <i>Sleep</i> , 2001 , 24, 813-9	1.1	160
91	Motor dysfunction during sleep in posttraumatic stress disorder. <i>Sleep</i> , 1994 , 17, 723-32	1.1	126
90	Sleep deprivation potentiates HPA axis stress reactivity in healthy adults. <i>Health Psychology</i> , 2014 , 33, 1430-4	5	122
89	How acute total sleep loss affects the attending brain: a meta-analysis of neuroimaging studies. <i>Sleep</i> , 2015 , 38, 233-40	1.1	122
88	Assessing performance upon abrupt awakening from naps during quasi-continuous operations. <i>Behavior Research Methods</i> , 1985 , 17, 37-45		108
87	Effects of modafinil on sustained attention performance and quality of life in OSA patients with residual sleepiness while being treated with nCPAP. <i>Sleep Medicine</i> , 2003 , 4, 393-402	4.6	105
86	Psychological and behavioral changes during confinement in a 520-day simulated interplanetary mission to mars. <i>PLoS ONE</i> , 2014 , 9, e93298	3.7	99
85	Rotating shiftwork schedules: can we enhance physician adaptation to night shifts?. <i>Academic Emergency Medicine</i> , 1997 , 4, 951-61	3.4	94
84	Education Outcomes in a Duty-Hour Flexibility Trial in Internal Medicine. <i>New England Journal of Medicine</i> , 2018 , 378, 1494-1508	59.2	93
83	Sociodemographic characteristics and waking activities and their role in the timing and duration of sleep. <i>Sleep</i> , 2014 , 37, 1889-906	1.1	85

82	Pharmacodynamic effects on alertness of single doses of armodafinil in healthy subjects during a nocturnal period of acute sleep loss. <i>Current Medical Research and Opinion</i> , 2006 , 22, 159-67	2.5	85
81	Sex and race differences in caloric intake during sleep restriction in healthy adults. <i>American Journal of Clinical Nutrition</i> , 2014 , 100, 559-66	7	80
80	With Appreciation and Encouragement!. <i>Sleep</i> , 2015 , 38, 1833-1833	1.1	78
79	226 Changes in sleep amount and sleep quality due to the COVID-19 pandemic confinement associate with ratings of health and stress. <i>Sleep</i> , 2021 , 44, A90-A90	1.1	78
78	670 Changes in Childhood Sleep Patterns in an Intervention Study Prior to and During COVID19 Restrictions. <i>Sleep</i> , 2021 , 44, A262-A262	1.1	78
77	219 Comparing Sleep Amount and Quality for People Working from Home with and Without Minor Dependents during the COVID-19 Pandemic. <i>Sleep</i> , 2021 , 44, A87-A88	1.1	78
76	215 Sleep duration, quality and timing during confinement amid the COVID-19 Pandemic. <i>Sleep</i> , 2021 , 44, A86-A86	1.1	78
75	A novel BHLHE41 variant is associated with short sleep and resistance to sleep deprivation in humans. <i>Sleep</i> , 2014 , 37, 1327-36	1.1	73
74	The benefits of a nap during prolonged work and wakefulness. <i>Work and Stress</i> , 1988 , 2, 139-153	6.1	68
73	Neurobehavioral consequences of arousals. <i>Sleep</i> , 1996 , 19, S198-201	1.1	66
72	Self-hypnosis training as an adjunctive treatment in the management of pain associated with sickle cell disease. <i>International Journal of Clinical and Experimental Hypnosis</i> , 1997 , 45, 417-32	1.8	65
71	Development and Validation of the Cognition Test Battery for Spaceflight. <i>Aerospace Medicine and Human Performance</i> , 2015 , 86, 942-52	1.1	64
70	Human and rat gut microbiome composition is maintained following sleep restriction. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, E1564-E1571	11.5	59
69	Developing Biomarker Arrays Predicting Sleep and Circadian-Coupled Risks to Health. <i>Sleep</i> , 2016 , 39, 727-36	1.1	59
68	Meta-Analysis of the Antidepressant Effects of Acute Sleep Deprivation. <i>Journal of Clinical Psychiatry</i> , 2017 , 78, e1020-e1034	4.6	59
67	A comparative model: reaction time performance in sleep-disordered breathing versus alcohol-impaired controls. <i>Laryngoscope</i> , 1999 , 109, 1648-54	3.6	49
66	Resting metabolic rate varies by race and by sleep duration. <i>Obesity</i> , 2015 , 23, 2349-56	8	47
65	Altered salience network connectivity predicts macronutrient intake after sleep deprivation. <i>Scientific Reports</i> , 2015 , 5, 8215	4.9	44

64	Repeated Administration Effects on Psychomotor Vigilance Test Performance. <i>Sleep</i> , 2018 , 41,	1.1	42
63	Interindividual variability in neurobehavioral response to sleep loss: A comprehensive review. <i>Neuroscience and Biobehavioral Reviews</i> , 2018 , 89, 29-48	9	42
62	Sleep and Alertness in Medical Interns and Residents: An Observational Study on the Role of Extended Shifts. <i>Sleep</i> , 2017 , 40,	1.1	41
61	Sleep duration in the United States 2003-2016: first signs of success in the fight against sleep deficiency?. <i>Sleep</i> , 2018 , 41,	1.1	38
60	Short-Term Variability in Apnea-Hypopnea Index during Extended Home Portable Monitoring. <i>Journal of Clinical Sleep Medicine</i> , 2016 , 12, 855-63	3.1	34
59	Patient Safety Outcomes under Flexible and Standard Resident Duty-Hour Rules. <i>New England Journal of Medicine</i> , 2019 , 380, 905-914	59.2	33
58	Validation of the Cognition Test Battery for Spaceflight in a Sample of Highly Educated Adults. <i>Aerospace Medicine and Human Performance</i> , 2017 , 88, 937-946	1.1	31
57	Cognitive workload and sleep restriction interact to influence sleep homeostatic responses. <i>Sleep</i> , 2014 , 37, 1745-56	1.1	31
56	Review of regulations and guidelines for commercial and noncommercial drivers with sleep apnea and narcolepsy. <i>Sleep</i> , 1995 , 18, 787-96	1.1	31
55	Determinants of sleepiness in obstructive sleep apnea. <i>Sleep</i> , 2018 , 41,	1.1	27
54	Phenotypic vulnerability of energy balance responses to sleep loss in healthy adults. <i>Scientific Reports</i> , 2015 , 5, 14920	4.9	27
53	Sleepiness and Safety: Where Biology Needs Technology. <i>Sleep and Biological Rhythms</i> , 2014 , 12, 74-84	1.3	26
52	Data and methods for studying commercial motor vehicle driver fatigue, highway safety and long-term driver health. <i>Accident Analysis and Prevention</i> , 2019 , 126, 37-42	6.1	23
51	Critical research issues in development of biomathematical models of fatigue and performance. <i>Aviation, Space, and Environmental Medicine</i> , 2004 , 75, A181-91		23
50	Sleep and Alertness in a Duty-Hour Flexibility Trial in Internal Medicine. <i>New England Journal of Medicine</i> , 2019 , 380, 915-923	59.2	22
49	A new likelihood ratio metric for the psychomotor vigilance test and its sensitivity to sleep loss. <i>Journal of Sleep Research</i> , 2015 , 24, 702-13	5.8	22
48	Phenotyping of neurobehavioral vulnerability to circadian phase during sleep loss. <i>Methods in Enzymology</i> , 2015 , 552, 285-308	1.7	20
47	Effects of -12° head-down tilt with and without elevated levels of CO on cognitive performance: the SPACECOT study. <i>Journal of Applied Physiology</i> , 2018 , 124, 750-760	3.7	18

46	Memory liabilities associated with hypnosis: does low hypnotizability confer immunity?. <i>International Journal of Clinical and Experimental Hypnosis</i> , 1996 , 44, 354-69	1.8	18
45	Objective Measurements of Energy Balance Are Associated With Sleep Architecture in Healthy Adults. <i>Sleep</i> , 2017 , 40,	1.1	17
44	Early Blood Lead Levels and Sleep Disturbance in Preadolescence. <i>Sleep</i> , 2015 , 38, 1869-74	1.1	17
43	Cocoa flavanols, cerebral blood flow, cognition, and health: going forward. <i>Journal of Cardiovascular Pharmacology</i> , 2006 , 47 Suppl 2, S221-3	3.1	17
42	Two nights of recovery sleep restores hippocampal connectivity but not episodic memory after total sleep deprivation. <i>Scientific Reports</i> , 2020 , 10, 8774	4.9	15
41	Optical computer recognition of facial expressions associated with stress induced by performance demands. <i>Aviation, Space, and Environmental Medicine</i> , 2005 , 76, B172-82		15
40	Cognitive Performance During Confinement and Sleep Restriction in NASA's Human Exploration Research Analog (HERA). <i>Frontiers in Physiology</i> , 2020 , 11, 394	4.6	13
39	Managing neurobehavioral capability when social expediency trumps biological imperatives. <i>Progress in Brain Research</i> , 2012 , 199, 377-398	2.9	12
38	Sleep deprivation enhances inter-stimulus interval effect on vigilant attention performance. <i>Sleep</i> , 2018 , 41,	1.1	12
37	Changes in Sleep Duration and Timing During the Middle-to-High School Transition. <i>Journal of Adolescent Health</i> , 2020 , 67, 829-836	5.8	11
36	Systematic Interindividual Differences in Neurobehavioral Impairment from Sleep Loss: Evidence of Trait-Like Differential Vulnerability. <i>Sleep</i> , 2004 ,	1.1	11
35	Wireless Monitoring of Changes in Crew Relations during Long-Duration Mission Simulation. <i>PLoS ONE</i> , 2015 , 10, e0134814	3.7	10
34	Development of the individualised Comparative Effectiveness of Models Optimizing Patient Safety and Resident Education (iCOMPARE) trial: a protocol summary of a national cluster-randomised trial of resident duty hour policies in internal medicine. <i>BMJ Open</i> , 2018 , 8, e021711	3	10
33	Cognition test battery: Adjusting for practice and stimulus set effects for varying administration intervals in high performing individuals. <i>Journal of Clinical and Experimental Neuropsychology</i> , 2020 , 42, 516-529	2.1	9
32	Self-hypnosis and meditation for stress management: a brief communication. <i>International Journal of Clinical and Experimental Hypnosis</i> , 1989 , 37, 285-9	1.8	9
31	Effects of head-down tilt bed rest plus elevated CO on cognitive performance. <i>Journal of Applied Physiology</i> , 2021 , 130, 1235-1246	3.7	9
30	Electrocortical Evidence for Impaired Affective Picture Processing after Long-Term Immobilization. <i>Scientific Reports</i> , 2019 , 9, 16610	4.9	9
29	Effects of zolpidem and zaleplon on cognitive performance after emergent morning awakenings at Tmax: a randomized placebo-controlled trial. <i>Sleep</i> , 2019 , 42,	1.1	9

28	Continuous and Intermittent Artificial Gravity as a Countermeasure to the Cognitive Effects of 60 Days of Head-Down Tilt Bed Rest. <i>Frontiers in Physiology</i> , 2021 , 12, 643854	4.6	8
27	Lost in space: sleep. <i>Lancet Neurology, The</i> , 2014 , 13, 860-2	24.1	6
26	Engineering a Mobile Platform to Promote Sleep in the Pediatric Primary Care Setting 2020 ,		5
25	Test-retest reliability of cerebral blood flow for assessing brain function at rest and during a vigilance task. <i>NeuroImage</i> , 2019 , 193, 157-166	7.9	4
24	Tracking intermediate performance of vigilant attention using multiple eye metrics. <i>Sleep</i> , 2020 , 43,	1.1	4
23	Confidence Intervals for Individualized Performance Models. <i>Sleep</i> , 2007 , 30, 1083-1083	1.1	4
22	Determinants of Behavioral Alertness in Adults with Heart Failure. <i>Journal of Clinical Sleep Medicine</i> , 2016 , 12, 589-96	3.1	4
21	Associations of the residential built environment with adolescent sleep outcomes. <i>Sleep</i> , 2021 , 44,	1.1	4
20	Rock v. Arkansas: hypnosis, the defendant's privilege. <i>International Journal of Clinical and Experimental Hypnosis</i> , 1990 , 38, 250-65	1.8	3
19	A dual-probe recognition memory task for use during sustained operations. <i>Behavior Research Methods</i> , 1985 , 17, 656-658		3
18	Fatigue risk management based on self-reported fatigue: Expanding a biomathematical model of fatigue-related performance deficits to also predict subjective sleepiness. <i>Transportation Research Part F: Traffic Psychology and Behaviour</i> , 2021 , 79, 94-106	4.5	3
17	Response speed measurements on the psychomotor vigilance test: how precise is precise enough?. <i>Sleep</i> , 2021 , 44,	1.1	3
16	Effects of six weeks of chronic sleep restriction with weekend recovery on cognitive performance and wellbeing in high-performing adults. <i>Sleep</i> , 2021 , 44,	1.1	3
15	Human Circadian Rhythms 2005 , 255-269		2
14	Sleep Deprivation and Its Effects on Cognitive Performance 2005 , 137-144		2
13	Predictors of interindividual differences in vulnerability to neurobehavioral consequences of chronic partial sleep restriction.. <i>Sleep</i> , 2021 ,	1.1	2
12	Sleep deficiency in spaceflight is associated with degraded neurobehavioral functions and elevated stress in astronauts on six-month missions aboard the International Space Station.. <i>Sleep</i> , 2022 ,	1.1	2
11	Caloric and Macronutrient Intake and Meal Timing Responses to Repeated Sleep Restriction Exposures Separated by Varying Intervening Recovery Nights in Healthy Adults. <i>Nutrients</i> , 2020 , 12,	6.7	2

10	Sleep and Work in ICU Physicians During a Randomized Trial of Nighttime Intensivist Staffing. <i>Critical Care Medicine</i> , 2019 , 47, 894-902	1.4	2
9	Effects of Night Work, Sleep Loss and Time on Task on Simulated Threat Detection Performance. <i>Sleep</i> , 2008 ,	1.1	1
8	Achieving Our Mission: Breadth in the Best Basic and Clinical Sleep Research. <i>Sleep</i> , 2007 , 30, 951-952	1.1	1
7	Forum on Critical Topics Sleep, Adenosine, and the Basal Forebrain. <i>Sleep</i> , 2006 , 29, 1381-1381	1.1	1
6	Serum micronutrient status, sleep quality and neurobehavioural function among early adolescents. <i>Public Health Nutrition</i> , 2021 , 24, 5815-5825	3.3	1
5	Engineering a mobile platform to promote sleep in the pediatric primary care setting. <i>SLEEP Advances</i> , 2021 , 2, zpab006	2.8	0
4	Impaired Vigilant Attention Partly Accounts for Inhibition Control Deficits After Total Sleep Deprivation and Partial Sleep Restriction. <i>Nature and Science of Sleep</i> , 2021 , 13, 1545-1560	3.6	0
3	Response to Letters to the Editor by Dr. Glozier and Grunstein and by Drs. Hertenstein, Riemann, and Nissen in response to our article "Sleep duration in the United States 2003-2016: first signs of success in the fight against sleep deficiency?". <i>Sleep</i> , 2018 , 41,	1.1	
2	613 Variation in Sleep Beliefs and Behaviors Among Caregiver-Child Dyads Participating in a Sleep Extension Intervention. <i>Sleep</i> , 2021 , 44, A241-A241	1.1	
1	Response to: "Can Racial Differences in Resting Metabolic Rate be Explained by Body Composition?". <i>Obesity</i> , 2016 , 24, 1204	8	