

David F Dinges

List of Publications by Year in descending order

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Version: 2024-02-01

101
papers

8,573
citations

87723

38
h-index

46693

89
g-index

103
all docs

103
docs citations

103
times ranked

8551
citing authors

#	ARTICLE	IF	CITATIONS
1	Behavioral and Physiological Consequences of Sleep Restriction. <i>Journal of Clinical Sleep Medicine</i> , 2007, 03, 519-528.	1.4	1,083
2	Sleep Deprivation and Vigilant Attention. <i>Annals of the New York Academy of Sciences</i> , 2008, 1129, 305-322.	1.8	935
3	An overview of sleepiness and accidents. <i>Journal of Sleep Research</i> , 1995, 4, 4-14.	1.7	720
4	The NASA Twins Study: A multidimensional analysis of a year-long human spaceflight. <i>Science</i> , 2019, 364, .	6.0	576
5	A Survey Screen for Prediction of Apnea. <i>Sleep</i> , 1995, 18, 158-166.	0.6	438
6	Absence of Diurnal Variation of C-Reactive Protein Concentrations in Healthy Human Subjects. <i>Clinical Chemistry</i> , 2001, 47, 426-430.	1.5	337
7	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.	1.7	295
8	Systematic Interindividual Differences in Neurobehavioral Impairment from Sleep Loss: Evidence of Trait-Like Differential Vulnerability. <i>Sleep</i> , 2004, , .	0.6	243
9	Caffeine Eliminates Psychomotor Vigilance Deficits from Sleep Inertia. <i>Sleep</i> , 2001, 24, 813-819.	0.6	200
10	How Acute Total Sleep Loss Affects the Attending Brain: A Meta-Analysis of Neuroimaging Studies. <i>Sleep</i> , 2015, 38, 233-240.	0.6	174
11	Sleep deprivation potentiates HPA axis stress reactivity in healthy adults.. <i>Health Psychology</i> , 2014, 33, 1430-1434.	1.3	171
12	Psychological and Behavioral Changes during Confinement in a 520-Day Simulated Interplanetary Mission to Mars. <i>PLoS ONE</i> , 2014, 9, e93298.	1.1	154
13	Assessing performance upon abrupt awakening from naps during quasi-continuous operations. <i>Behavior Research Methods</i> , 1985, 17, 37-45.	1.3	148
14	Motor Dysfunction During Sleep in Posttraumatic Stress Disorder. <i>Sleep</i> , 1994, 17, 723-732.	0.6	146
15	Education Outcomes in a Duty-Hour Flexibility Trial in Internal Medicine. <i>New England Journal of Medicine</i> , 2018, 378, 1494-1508.	13.9	125
16	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.	0.8	124
17	Development and Validation of the <i>Cognition</i> Test Battery for Spaceflight. <i>Aerospace Medicine and Human Performance</i> , 2015, 86, 942-952.	0.2	122
18	Rotating Shiftwork Schedules: Can We Enhance Physician Adaptation to Night Shifts?. <i>Academic Emergency Medicine</i> , 1997, 4, 951-961.	0.8	119

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19	Sociodemographic Characteristics and Waking Activities and their Role in the Timing and Duration of Sleep. <i>Sleep</i> , 2014, 37, 1889-1906.	0.6	116
20	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.	3.3	106
21	A Novel <i>BHLHE41</i> Variant is Associated with Short Sleep and Resistance to Sleep Deprivation in Humans. <i>Sleep</i> , 2014, 37, 1327-1336.	0.6	104
22	Sex and race differences in caloric intake during sleep restriction in healthy adults. <i>American Journal of Clinical Nutrition</i> , 2014, 100, 559-566.	2.2	99
23	Meta-Analysis of the Antidepressant Effects of Acute Sleep Deprivation. <i>Journal of Clinical Psychiatry</i> , 2017, 78, e1020-e1034.	1.1	95
24	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, 159-167.	0.9	93
25	Developing Biomarker Arrays Predicting Sleep and Circadian-Coupled Risks to Health. <i>Sleep</i> , 2016, 39, 727-736.	0.6	87
26	The benefits of a nap during prolonged work and wakefulness. <i>Work and Stress</i> , 1988, 2, 139-153.	2.8	80
27	Neurobehavioral Consequences of Arousals. <i>Sleep</i> , 1996, 19, S198-S201.	0.6	80
28	Repeated Administration Effects on Psychomotor Vigilance Test Performance. <i>Sleep</i> , 2018, 41, .	0.6	80
29	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, 417-432.	1.1	79
30	A Comparative Model: Reaction Time Performance in Sleep-Disordered Breathing Versus Alcohol-Impaired Controls. <i>Laryngoscope</i> , 1999, 109, 1648-1654.	1.1	69
31	Interindividual variability in neurobehavioral response to sleep loss: A comprehensive review. <i>Neuroscience and Biobehavioral Reviews</i> , 2018, 89, 29-48.	2.9	68
32	Altered salience network connectivity predicts macronutrient intake after sleep deprivation. <i>Scientific Reports</i> , 2015, 5, 8215.	1.6	64
33	Resting metabolic rate varies by race and by sleep duration. <i>Obesity</i> , 2015, 23, 2349-2356.	1.5	63
34	Sleep and Alertness in Medical Interns and Residents: An Observational Study on the Role of Extended Shifts. <i>Sleep</i> , 2017, 40, .	0.6	60
35	Patient Safety Outcomes under Flexible and Standard Resident Duty-Hour Rules. <i>New England Journal of Medicine</i> , 2019, 380, 905-914.	13.9	60
36	Sleep duration in the United States 2003â€“2016: first signs of success in the fight against sleep deficiency?. <i>Sleep</i> , 2018, 41, .	0.6	56

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37	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.	0.2	54
38	Sleep and Alertness in a Duty-Hour Flexibility Trial in Internal Medicine. <i>New England Journal of Medicine</i> , 2019, 380, 915-923.	13.9	44
39	Two nights of recovery sleep restores hippocampal connectivity but not episodic memory after total sleep deprivation. <i>Scientific Reports</i> , 2020, 10, 8774.	1.6	42
40	Determinants of sleepiness in obstructive sleep apnea. <i>Sleep</i> , 2018, 41, .	0.6	41
41	Short-Term Variability in Apnea-Hypopnea Index during Extended Home Portable Monitoring. <i>Journal of Clinical Sleep Medicine</i> , 2016, 12, 855-863.	1.4	39
42	Review of Regulations and Guidelines for Commercial and Noncommercial Drivers With Sleep Apnea and Narcolepsy. <i>Sleep</i> , 1995, 18, 787-796.	0.6	38
43	Cognitive Workload and Sleep Restriction Interact to Influence Sleep Homeostatic Responses. <i>Sleep</i> , 2014, 37, 1745-1756.	0.6	38
44	Phenotypic vulnerability of energy balance responses to sleep loss in healthy adults. <i>Scientific Reports</i> , 2015, 5, 14920.	1.6	33
45	Sleepiness and safety: Where biology needs technology. <i>Sleep and Biological Rhythms</i> , 2014, 12, 74-84.	0.5	32
46	A new likelihood ratio metric for the psychomotor vigilance test and its sensitivity to sleep loss. <i>Journal of Sleep Research</i> , 2015, 24, 702-713.	1.7	31
47	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.	3.0	31
48	Early Blood Lead Levels and Sleep Disturbance in Preadolescence. <i>Sleep</i> , 2015, 38, 1869-1874.	0.6	26
49	Effects of 12° head-down tilt with and without elevated levels of CO ₂ on cognitive performance: the SPACECOT study. <i>Journal of Applied Physiology</i> , 2018, 124, 750-760.	1.2	25
50	Cognitive Performance During Confinement and Sleep Restriction in NASA's Human Exploration Research Analog (HERA). <i>Frontiers in Physiology</i> , 2020, 11, 394.	1.3	25
51	Cocoa Flavanols, Cerebral Blood Flow, Cognition, and Health: Going Forward. <i>Journal of Cardiovascular Pharmacology</i> , 2006, 47, S223-S225.	0.8	24
52	Phenotyping of Neurobehavioral Vulnerability to Circadian Phase During Sleep Loss. <i>Methods in Enzymology</i> , 2015, 552, 285-308.	0.4	23
53	Critical research issues in development of biomathematical models of fatigue and performance. <i>Aviation, Space, and Environmental Medicine</i> , 2004, 75, A181-91.	0.6	23
54	Objective Measurements of Energy Balance Are Associated With Sleep Architecture in Healthy Adults. <i>Sleep</i> , 2017, 40, .	0.6	22

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55	Memory Liabilities Associated with Hypnosis: Does Low Hypnotizability Confer Immunity?. <i>International Journal of Clinical and Experimental Hypnosis</i> , 1996, 44, 354-369.	1.1	21
56	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.	1.3	21
57	Changes in Sleep Duration and Timing During the Middle-to-High School Transition. <i>Journal of Adolescent Health</i> , 2020, 67, 829-836.	1.2	20
58	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, 45, .	0.6	20
59	Associations of the residential built environment with adolescent sleep outcomes. <i>Sleep</i> , 2021, 44, .	0.6	18
60	Effects of Night Work, Sleep Loss and Time on Task on Simulated Threat Detection Performance. <i>Sleep</i> , 2008, , .	0.6	17
61	Sleep deprivation enhances inter-stimulus interval effect on vigilant attention performance. <i>Sleep</i> , 2018, 41, .	0.6	17
62	Wireless Monitoring of Changes in Crew Relations during Long-Duration Mission Simulation. <i>PLoS ONE</i> , 2015, 10, e0134814.	1.1	16
63	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.	0.8	16
64	Response speed measurements on the psychomotor vigilance test: how precise is precise enough?. <i>Sleep</i> , 2021, 44, .	0.6	16
65	Managing neurobehavioral capability when social expediency trumps biological imperatives. <i>Progress in Brain Research</i> , 2012, 199, 377-398.	0.9	15
66	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, .	0.6	15
67	Effects of head-down tilt bed rest plus elevated CO ₂ on cognitive performance. <i>Journal of Applied Physiology</i> , 2021, 130, 1235-1246.	1.2	15
68	Optical computer recognition of facial expressions associated with stress induced by performance demands. <i>Aviation, Space, and Environmental Medicine</i> , 2005, 76, B172-82.	0.6	15
69	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.	0.8	13
70	Electrocortical Evidence for Impaired Affective Picture Processing after Long-Term Immobilization. <i>Scientific Reports</i> , 2019, 9, 16610.	1.6	13
71	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, Volume 13, 1545-1560.	1.4	13
72	Lost in space: sleep. <i>Lancet Neurology</i> , The, 2014, 13, 860-862.	4.9	12

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73	Self-Hypnosis and Meditation for Stress Management: A Brief Communication. <i>International Journal of Clinical and Experimental Hypnosis</i> , 1989, 37, 285-289.	1.1	11
74	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.	1.8	11
75	Predictors of interindividual differences in vulnerability to neurobehavioral consequences of chronic partial sleep restriction. <i>Sleep</i> , 2022, 45, .	0.6	11
76	Effects of zolpidem and zaleplon on cognitive performance after emergent morning awakenings at Tmax: a randomized placebo-controlled trial. <i>Sleep</i> , 2019, 42, .	0.6	10
77	Tracking intermediate performance of vigilant attention using multiple eye metrics. <i>Sleep</i> , 2020, 43, .	0.6	9
78	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, 2694.	1.7	8
79	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.	2.1	6
80	Serum micronutrient status, sleep quality and neurobehavioural function among early adolescents. <i>Public Health Nutrition</i> , 2021, 24, 5815-5825.	1.1	6
81	A dual-probe recognition memory task for use during sustained operations. <i>Behavior Research Methods</i> , 1985, 17, 656-658.	1.3	5
82	Confidence Intervals for Individualized Performance Models. <i>Sleep</i> , 2007, 30, 1083-1083.	0.6	5
83	Determinants of Behavioral Alertness in Adults with Heart Failure. <i>Journal of Clinical Sleep Medicine</i> , 2016, 12, 589-596.	1.4	5
84	Rock v. Arkansas: Hypnosis, The Defendant's Privilege. <i>International Journal of Clinical and Experimental Hypnosis</i> , 1990, 38, 250-265.	1.1	4
85	Sleep Deprivation and Its Effects on Cognitive Performance. , 2005, , 137-144.		4
86	Sleep and Work in ICU Physicians During a Randomized Trial of Nighttime Intensivist Staffing*. <i>Critical Care Medicine</i> , 2019, 47, 894-902.	0.4	4
87	Human Circadian Rhythms. , 2005, , 255-269.		3
88	Engineering a mobile platform to promote sleep in the pediatric primary care setting. <i>SLEEP Advances</i> , 2021, 2, zpab006.	0.1	3
89	Achieving Our Mission: Breadth in the Best Basic and Clinical Sleep Research. <i>Sleep</i> , 2007, 30, 951-952.	0.6	2
90	Forum on Critical Topics " Sleep, Adenosine, and the Basal Forebrain. <i>Sleep</i> , 2006, 29, 1381-1381.	0.6	1

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91	Standardization of psychomotor vigilance testing methods and reporting. <i>Sleep</i> , 2021, 44, .	0.6	1
92	Death of Martin Theodore Orne. <i>Contemporary Hypnosis</i> , 2000, 17, 49-50.	0.7	0
93	Total and partial sleep deprivation: Effects on plasma TNF- α RI, TNF- α RII, and IL-6, and reversal by caffeine operating through adenosine A2 receptor. <i>AIP Conference Proceedings</i> , 2000, , .	0.3	0
94	With Appreciation and Encouragement!. <i>Sleep</i> , 2015, 38, 1833-1833.	0.6	0
95	Response to: "Can Racial Differences in Resting Metabolic Rate be Explained by Body Composition?" <i>Obesity</i> , 2016, 24, 1204-1204.	1.5	0
96	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, .	0.6	0
97	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.	0.6	0
98	670 Changes in Childhood Sleep Patterns in an Intervention Study Prior to and During COVID19 Restrictions. <i>Sleep</i> , 2021, 44, A262-A262.	0.6	0
99	613 Variation in Sleep Beliefs and Behaviors Among Caregiver-Child Dyads Participating in a Sleep Extension Intervention. <i>Sleep</i> , 2021, 44, A241-A241.	0.6	0
100	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.	0.6	0
101	215 Sleep duration, quality and timing during confinement amid the COVID-19 Pandemic. <i>Sleep</i> , 2021, 44, A86-A86.	0.6	0