

Ian M Colrain

List of Publications by Year in descending order

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Version: 2024-02-01

126
papers

7,785
citations

47006

47
h-index

58581

82
g-index

126
all docs

126
docs citations

126
times ranked

7878
citing authors

#	ARTICLE	IF	CITATIONS
1	A review of the evidence for P2 being an independent component process: age, sleep and modality. <i>Clinical Neurophysiology</i> , 2004, 115, 732-744.	1.5	663
2	Changes in Sleep as a Function of Adolescent Development. <i>Neuropsychology Review</i> , 2011, 21, 5-21.	4.9	286
3	Increased Production of Evoked and Spontaneous K-complexes Following a Night of Fragmented Sleep. <i>Sleep</i> , 2002, 25, 42-47.	1.1	284
4	A validation study of Fitbit Charge 2 compared with polysomnography in adults. <i>Chronobiology International</i> , 2018, 35, 465-476.	2.0	284
5	Wearable Sleep Technology in Clinical and Research Settings. <i>Medicine and Science in Sports and Exercise</i> , 2019, 51, 1538-1557.	0.4	270
6	Insomnia disorder in adolescence: Diagnosis, impact, and treatment. <i>Sleep Medicine Reviews</i> , 2018, 39, 12-24.	8.5	227
7	Variation in longitudinal trajectories of regional brain volumes of healthy men and women (ages 10) Tj ETQq1 1 0.784314 rgBT /Overl 4.2 220		
8	The effects of normal aging on sleep spindle and K-complex production. <i>Clinical Neurophysiology</i> , 2002, 113, 1615-1622.	1.5	214
9	The K-Complex: A 7-Decade History. <i>Sleep</i> , 2005, 28, 255-273.	1.1	207
10	The National Consortium on Alcohol and NeuroDevelopment in Adolescence (NCANDA): A Multisite Study of Adolescent Development and Substance Use. <i>Journal of Studies on Alcohol and Drugs</i> , 2015, 76, 895-908.	1.0	181
11	Measures of sleep and cardiac functioning during sleep using a multi-sensory commercially-available wristband in adolescents. <i>Physiology and Behavior</i> , 2016, 158, 143-149.	2.1	179
12	Sleep problems during the menopausal transition: prevalence, impact, and management challenges. <i>Nature and Science of Sleep</i> , 2018, Volume 10, 73-95.	2.7	166
13	The Sleep of the Ring: Comparison of the ÅCEURA Sleep Tracker Against Polysomnography. <i>Behavioral Sleep Medicine</i> , 2019, 17, 124-136.	2.1	161
14	Alcohol use disorder and sleep disturbances: a feed-forward allostatic framework. <i>Neuropsychopharmacology</i> , 2020, 45, 141-165.	5.4	142
15	Altered Brain Developmental Trajectories in Adolescents After Initiating Drinking. <i>American Journal of Psychiatry</i> , 2018, 175, 370-380.	7.2	133
16	Validation of Sleep-Tracking Technology Compared with Polysomnography in Adolescents. <i>Sleep</i> , 2015, 38, 1461-1468.	1.1	130
17	Dynamic coupling between the central and autonomic nervous systems during sleep: A review. <i>Neuroscience and Biobehavioral Reviews</i> , 2018, 90, 84-103.	6.1	127
18	Adolescent Development of Cortical and White Matter Structure in the NCANDA Sample: Role of Sex, Ethnicity, Puberty, and Alcohol Drinking. <i>Cerebral Cortex</i> , 2016, 26, 4101-4121.	2.9	115

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19	Sleep Quality and the Sleep Electroencephalogram in Women with Severe Premenstrual Syndrome. <i>Sleep</i> , 2007, 30, 1283-1291.	1.1	114
20	Alcohol and the sleeping brain. <i>Handbook of Clinical Neurology</i> / Edited By P J Vinken and G W Bruyn, 2014, 125, 415-431.	1.8	113
21	The use of evoked potentials in sleep research. <i>Sleep Medicine Reviews</i> , 2007, 11, 277-293.	8.5	110
22	Evaluation of a consumer fitness-tracking device to assess sleep in adults. <i>Chronobiology International</i> , 2015, 32, 1024-1028.	2.0	101
23	Event-related potential measures of the inhibition of information processing: II. The sleep onset period. <i>International Journal of Psychophysiology</i> , 2002, 46, 197-214.	1.0	96
24	Magnitude of the impact of hot flashes on sleep in perimenopausal women. <i>Fertility and Sterility</i> , 2014, 102, 1708-1715.e1.	1.0	91
25	Harmonizing DTI measurements across scanners to examine the development of white matter microstructure in 803 adolescents of the NCANDA study. <i>NeuroImage</i> , 2016, 130, 194-213.	4.2	85
26	Perceived poor sleep quality in the absence of polysomnographic sleep disturbance in women with severe premenstrual syndrome. <i>Journal of Sleep Research</i> , 2012, 21, 535-545.	3.2	81
27	Impact of Alcoholism on Sleep Architecture and EEG Power Spectra in Men and Women. <i>Sleep</i> , 2009, 32, 1341-1352.	1.1	80
28	Eveningness and Later Sleep Timing Are Associated with Greater Risk for Alcohol and Marijuana Use in Adolescence: Initial Findings from the National Consortium on Alcohol and Neurodevelopment in Adolescence Study. <i>Alcoholism: Clinical and Experimental Research</i> , 2017, 41, 1154-1165.	2.4	75
29	Frontally mediated inhibitory processing and white matter microstructure: age and alcoholism effects. <i>Psychopharmacology</i> , 2011, 213, 669-679.	3.1	73
30	Insomnia in women approaching menopause: Beyond perception. <i>Psychoneuroendocrinology</i> , 2015, 60, 96-104.	2.7	73
31	Sleep and respiratory stimulus specific dampening of cortical responsiveness in OSAS. <i>Respiratory Physiology and Neurobiology</i> , 2003, 136, 221-234.	1.6	70
32	An examination of evoked K-complex amplitude and frequency of occurrence in the elderly. <i>Journal of Sleep Research</i> , 2002, 11, 129-140.	3.2	69
33	Multichannel EEG analysis of respiratory evoked-potential components during wakefulness and NREM sleep. <i>Journal of Applied Physiology</i> , 1998, 85, 1727-1735.	2.5	68
34	The respiratory-related evoked potential: Effects of attention and occlusion duration. <i>Psychophysiology</i> , 2000, 37, 310-318.	2.4	68
35	The N550 component of the evoked K-complex: A modality non-specific response?. <i>Journal of Sleep Research</i> , 2002, 8, 273-280.	3.2	67
36	Evoked potential components unique to non-REM sleep: relationship to evoked K-complexes and vertex sharp waves. <i>International Journal of Psychophysiology</i> , 2002, 46, 257-274.	1.0	64

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37	Sleep Disturbance Predicts Depression Symptoms in Early Adolescence: Initial Findings From the Adolescent Brain Cognitive Development Study. <i>Journal of Adolescent Health</i> , 2020, 66, 567-574.	2.5	62
38	Source dipole analysis of the early components of the RREP. <i>Brain Topography</i> , 1998, 11, 153-164.	1.8	61
39	A multicenter evaluation of oral pressure therapy for the treatment of obstructive sleep apnea. <i>Sleep Medicine</i> , 2013, 14, 830-837.	1.6	60
40	Evidence of a Sleep-Specific Blunted Cortical Response to Inspiratory Occlusions in Mild Obstructive Sleep Apnea Syndrome. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2002, 166, 1225-1234.	5.6	58
41	Developmental change in regional brain structure over 7 months in early adolescence: Comparison of approaches for longitudinal atlas-based parcellation. <i>NeuroImage</i> , 2011, 57, 214-224.	4.2	57
42	The relationship between respiratory-related evoked potentials and the perception of inspiratory resistive loads. <i>Psychophysiology</i> , 2000, 37, 831-841.	2.4	56
43	Autonomic regulation across phases of the menstrual cycle and sleep stages in women with premenstrual syndrome and healthy controls. <i>Psychoneuroendocrinology</i> , 2013, 38, 2618-2627.	2.7	56
44	Interaction between Reproductive Hormones and Physiological Sleep in Women. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2015, 100, 1426-1433.	3.6	56
45	Cognitive, emotion control, and motor performance of adolescents in the NCANDA study: Contributions from alcohol consumption, age, sex, ethnicity, and family history of addiction.. <i>Neuropsychology</i> , 2016, 30, 449-473.	1.3	56
46	The mediating role of cortical thickness and gray matter volume on sleep slow-wave activity during adolescence. <i>Brain Structure and Function</i> , 2018, 223, 669-685.	2.3	56
47	Reduced parasympathetic activity during sleep in the symptomatic phase of severe premenstrual syndrome. <i>Journal of Psychosomatic Research</i> , 2008, 65, 13-22.	2.6	52
48	Sleep evoked delta frequency responses show a linear decline in amplitude across the adult lifespan. <i>Neurobiology of Aging</i> , 2010, 31, 874-883.	3.1	52
49	The Roles of Vertex Sharp Waves and K-Complexes in the Generation of N300 in Auditory and Respiratory-related Evoked Potentials During Early Stage 2 NREM Sleep. <i>Sleep</i> , 2000, 23, 1-10.	1.1	50
50	Menstrual Cycle-Related Variation in Physiological Sleep in Women in the Early Menopausal Transition. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2015, 100, 2918-2926.	3.6	49
51	The Acute Effects of Alcohol on Sleep Architecture in Late Adolescence. <i>Alcoholism: Clinical and Experimental Research</i> , 2013, 37, 1720-1728.	2.4	48
52	Age-Related Differences in Sleep Architecture and Electroencephalogram in Adolescents in the National Consortium on Alcohol and Neurodevelopment in Adolescence Sample. <i>Sleep</i> , 2016, 39, 1429-1439.	1.1	48
53	Performance of a commercial multi-sensor wearable (Fitbit Charge HR) in measuring physical activity and sleep in healthy children. <i>PLoS ONE</i> , 2020, 15, e0237719.	2.5	47
54	Effects of sleep on substance use in adolescents: a longitudinal perspective. <i>Addiction Biology</i> , 2018, 23, 750-760.	2.6	45

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55	The impact of prestimulus EEG frequency on auditory evoked potentials during sleep onset.. Canadian Journal of Experimental Psychology, 2000, 54, 243-254.	0.8	43
56	Respiratory-related evoked potentials during the transition from alpha to theta EEG activity in Stage 1 NREM sleep. Journal of Sleep Research, 1999, 8, 123-134.	3.2	42
57	P3-Specific Amplitude Reductions to Respiratory and Auditory Stimuli in Subjects with Asthma. American Journal of Respiratory and Critical Care Medicine, 2002, 166, 47-52.	5.6	41
58	Daytime sleepiness, psychomotor performance, waking EEG spectra and evoked potentials in women with severe premenstrual syndrome. Journal of Sleep Research, 2010, 19, 214-227.	3.2	40
59	Nocturnal cardiac autonomic profile in young primary insomniacs and good sleepers. International Journal of Psychophysiology, 2014, 93, 332-339.	1.0	40
60	The Impact of Alcoholism on Sleep Evoked δ Frequency Responses. Biological Psychiatry, 2009, 66, 177-184.	1.3	39
61	The Boom in Wearable Technology: Cause for Alarm or Just What is Needed to Better Understand Sleep?. Sleep, 2016, 39, 1761-1762.	1.1	39
62	Sleep spindle characteristics in adolescents. Clinical Neurophysiology, 2019, 130, 893-902.	1.5	39
63	Differentiating Pathologic Delta From Healthy Physiologic Delta in Patients With Alzheimer Disease. Sleep, 2005, 28, 865-870.	1.1	37
64	A Pilot Evaluation of a Nasal Expiratory Resistance Device for the Treatment of Obstructive Sleep Apnea. Journal of Clinical Sleep Medicine, 2008, 04, 426-433.	2.6	37
65	The Investigation of K-Complex and Vertex Sharp Wave Activity in Response to Mid-Inspiratory Occlusions and Complete Obstructions to Breathing During NREM Sleep. Sleep, 2001, 24, 81-89.	1.1	35
66	Electrophysiological evidence of enhanced performance monitoring in recently abstinent alcoholic men. Psychopharmacology, 2011, 213, 81-91.	3.1	34
67	K-Complexes: Interaction between the Central and Autonomic Nervous Systems during Sleep. Sleep, 2016, 39, 1129-1137.	1.1	33
68	Influences of Age, Sex, and Moderate Alcohol Drinking on the Intrinsic Functional Architecture of Adolescent Brains. Cerebral Cortex, 2018, 28, 1049-1063.	2.9	33
69	Association between personality traits and DSM-IV diagnosis of insomnia in peri- and postmenopausal women. Menopause, 2014, 21, 602-611.	2.0	32
70	Disturbed Cerebellar Growth Trajectories in Adolescents Who Initiate Alcohol Drinking. Biological Psychiatry, 2020, 87, 632-644.	1.3	32
71	Evoked K-complex generation: the impact of sleep spindles and age. Clinical Neurophysiology, 2004, 115, 471-476.	1.5	30
72	The effects of alcoholism on auditory evoked potentials during sleep. Journal of Sleep Research, 2002, 11, 247-253.	3.2	28

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73	Vagal withdrawal during hot flashes occurring in undisturbed sleep. <i>Menopause</i> , 2013, 20, 1147-1153.	2.0	28
74	Personality disorders in women with severe premenstrual syndrome. <i>Archives of Women's Mental Health</i> , 2011, 14, 257-264.	2.6	27
75	Increased production of evoked and spontaneous K-complexes following a night of fragmented sleep. <i>Sleep</i> , 2002, 25, 882-7.	1.1	26
76	The Acute Effects of Alcohol on Sleep Electroencephalogram Power Spectra in Late Adolescence. <i>Alcoholism: Clinical and Experimental Research</i> , 2015, 39, 291-299.	2.4	25
77	Association of Heavy Drinking With Deviant Fiber Tract Development in Frontal Brain Systems in Adolescents. <i>JAMA Psychiatry</i> , 2021, 78, 407.	11.0	25
78	Cortical Processing of Respiratory Afferent Stimuli during Sleep in Children with the Obstructive Sleep Apnea Syndrome. <i>Sleep</i> , 2008, 31, 403-410.	1.1	24
79	Acute stress alters autonomic modulation during sleep in women approaching menopause. <i>Psychoneuroendocrinology</i> , 2016, 66, 1-10.	2.7	24
80	Menstrual cycle-related variation in autonomic nervous system functioning in women in the early menopausal transition with and without insomnia disorder. <i>Psychoneuroendocrinology</i> , 2017, 75, 44-51.	2.7	24
81	Automatic analysis of pre-erectile period during sleep using impedance cardiogram. <i>Psychophysiology</i> , 2019, 56, e13355.	2.4	24
82	Adolescent Executive Dysfunction in Daily Life: Relationships to Risks, Brain Structure and Substance Use. <i>Frontiers in Behavioral Neuroscience</i> , 2017, 11, 223.	2.0	23
83	Independent Contributions of Cortical Gray Matter, Aging, Sex and Alcoholism to K-Complex Amplitude Evoked During Sleep. <i>Sleep</i> , 2011, 34, 787-795.	1.1	22
84	Sex- and Age-Dependent Differences in Autonomic Nervous System Functioning in Adolescents. <i>Journal of Adolescent Health</i> , 2018, 62, 184-190.	2.5	22
85	Sleep and Menstrual-Related Disorders. <i>Sleep Medicine Clinics</i> , 2008, 3, 25-35.	2.6	21
86	The impact of slow wave sleep proximity on evoked K-complex generation. <i>Neuroscience Letters</i> , 2006, 404, 127-131.	2.1	19
87	Brain metabolite levels in recently sober individuals with alcohol use disorder: Relation to drinking variables and relapse. <i>Psychiatry Research - Neuroimaging</i> , 2016, 250, 42-49.	1.8	19
88	A pilot evaluation of a nasal expiratory resistance device for the treatment of obstructive sleep apnea. <i>Journal of Clinical Sleep Medicine</i> , 2008, 4, 426-33.	2.6	19
89	Respiratory and Auditory Cortical Processing in Children with Obstructive Sleep Apnea Syndrome. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2013, 188, 852-857.	5.6	18
90	Letter to the Editor. Self-reported sleep patterns and daytime sleepiness in the neurologically healthy aged. <i>Journal of Sleep Research</i> , 2000, 9, 97-98.	3.2	17

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91	The effect of stimulus probability on P3 in the respiratory-related evoked potential. <i>Psychophysiology</i> , 2002, 39, 9-15.	2.4	16
92	Structural brain anomalies in healthy adolescents in the NCANDA cohort: relation to neuropsychological test performance, sex, and ethnicity. <i>Brain Imaging and Behavior</i> , 2017, 11, 1302-1315.	2.1	16
93	Ventilation During Sleep Onset in Young Adult Females. <i>Sleep</i> , 1990, 13, 491-501.	1.1	15
94	Poor Autonomic Nervous System Functioning During Sleep in Recently Detoxified Alcohol-Dependent Men and Women. <i>Alcoholism: Clinical and Experimental Research</i> , 2014, 38, 1373-1380.	2.4	15
95	Cardiac autonomic function during sleep: Effects of alcohol dependence and evidence of partial recovery with abstinence. <i>Alcohol</i> , 2015, 49, 409-415.	1.7	15
96	Effects of prior testing lasting a full year in NCANDA adolescents: Contributions from age, sex, socioeconomic status, ethnicity, site, family history of alcohol or drug abuse, and baseline performance. <i>Developmental Cognitive Neuroscience</i> , 2017, 24, 72-83.	4.0	15
97	Effects of age, sex, and puberty on neural efficiency of cognitive and motor control in adolescents. <i>Brain Imaging and Behavior</i> , 2020, 14, 1089-1107.	2.1	15
98	Cortical Processing of Respiratory Occlusion Stimuli in Children with Central Hypoventilation Syndrome. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2008, 178, 757-764.	5.6	14
99	Partial Recovery of Alcohol Dependence-Related Deficits in Sleep Evoked Potentials Following 12-Months of Abstinence. <i>Frontiers in Neurology</i> , 2012, 3, 13.	2.4	12
100	Reducing bedtime physiological arousal levels using immersive audio-visual respiratory bio-feedback: a pilot study in women with insomnia symptoms. <i>Journal of Behavioral Medicine</i> , 2019, 42, 973-983.	2.1	12
101	Adolescent alcohol use disrupts functional neurodevelopment in sensation seeking girls. <i>Addiction Biology</i> , 2021, 26, e12914.	2.6	12
102	Risk for depression tripled during the COVID-19 pandemic in emerging adults followed for the last 8 years. <i>Psychological Medicine</i> , 2023, 53, 2156-2163.	4.5	12
103	Partial K-Complex Recovery Following Short-Term Abstinence in Individuals with Alcohol Use Disorder. <i>Alcoholism: Clinical and Experimental Research</i> , 2015, 39, 1417-1424.	2.4	11
104	Altered nocturnal blood pressure profiles in women with insomnia disorder in the menopausal transition. <i>Menopause</i> , 2017, 24, 278-287.	2.0	11
105	P300 from inspiratory occlusion reflects orienting but not startle. <i>Biological Psychology</i> , 2004, 66, 21-33.	2.2	10
106	The falling asleep process in adolescents. <i>Sleep</i> , 2020, 43, .	1.1	10
107	When sleep goes virtual: the potential of using virtual reality at bedtime to facilitate sleep. <i>Sleep</i> , 2020, 43, .	1.1	8
108	Sleep EEG, the Clearest Window through which to View Adolescent Brain Development. <i>Sleep</i> , 2011, 34, 1287-1288.	1.1	7

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109	Impact of evening alcohol consumption on nocturnal autonomic and cardiovascular function in adult men and women: a dose-response laboratory investigation. <i>Sleep</i> , 2021, 44, .	1.1	7
110	Load compensation as a function of state during sleep onset. <i>Journal of Applied Physiology</i> , 1998, 84, 2123-2131.	2.5	6
111	Stress, sleep, and autonomic function in healthy adolescent girls and boys: Findings from the NCANDA study. <i>Sleep Health</i> , 2021, 7, 72-78.	2.5	6
112	Sleep <scp>EEG</scp> as a Potential Marker of Alcoholism Predispositionâ€”Commentary on â€œAdolescence and Parental History of Alcoholism: Insights from the Sleep <scp>EEG</scp>â€• <i>Alcoholism: Clinical and Experimental Research</i> , 2012, 36, 1477-1478.	2.4	4
113	The respiratory-related evoked potential: Effects of attention and occlusion duration. <i>Psychophysiology</i> , 2000, 37, 310-318.	2.4	4
114	Electroencephalographic Slow-Wave Activity During Sleep in Different Phases of Blood Pressure and Respiration Oscillations. , 2019, 2019, 2564-2567.		3
115	Physiological responses to acute psychosocial stress in women with menopausal insomnia. <i>International Journal of Psychophysiology</i> , 2021, 164, 87-94.	1.0	3
116	K-complexes are not preferentially evoked to combat sounds in combat-exposed Vietnam veterans with and without post-traumatic stress disorder. <i>International Journal of Psychophysiology</i> , 2012, 83, 393-398.	1.0	2
117	Editorial Focus: Sleep need in adolescence. Focus on: â€œThe maturational trajectories of NREM and REM sleep durations differ across adolescence on both school-night and extended sleep.â€• <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2012, 302, R531-R532.	1.8	2
118	The effect of stimulus probability on P3 in the respiratory-related evoked potential. <i>Psychophysiology</i> , 2002, 39, 9-15.	2.4	2
119	Chapter 11 Evoked potentials during non-REM sleep: utility and functional significance. <i>Handbook of Clinical Neurophysiology</i> , 2005, , 125-135.	0.0	1
120	Family History of Alcoholism and Brain Activation: Commentary on â€œIncreased Forebrain Activations in Youths with Family Histories of Alcohol and Other Substance Use Disorders Performing a Go/No-Go Taskâ€• <i>Alcoholism: Clinical and Experimental Research</i> , 2015, 39, 403-404.	2.4	1
121	Evoked K-complexes and altered interaction between the central and autonomic nervous systems during sleep in alcohol use disorder. <i>Alcohol</i> , 2020, 84, 1-7.	1.7	1
122	Cortical aspects of breathing control and sensation: A comment on von Leupoldt et al. (2010), â€œCortical sources of the respiratory-related evoked potentialâ€• <i>Respiratory Physiology and Neurobiology</i> , 2011, 175, 210-211.	1.6	0
123	Heightened Awareness in Insomnia. <i>Sleep</i> , 2012, 35, 451-452.	1.1	0
124	If a tree doesnâ€™t fall in a forest â€ ? <i>Clinical Neurophysiology</i> , 2014, 125, 1507-1508.	1.5	0
125	0402 Pre-Sleep Psychophysiological Downregulation in Women with Insomnia Symptoms. <i>Sleep</i> , 2019, 42, A163-A163.	1.1	0
126	Prior test experience confounds longitudinal tracking of adolescent cognitive and motor development. <i>BMC Medical Research Methodology</i> , 2022, 22, .	3.1	0