

Christopher J Earley

List of Publications by Year in descending order

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Version: 2024-02-01

122
papers

11,456
citations

26630

56
h-index

28297

105
g-index

126
all docs

126
docs citations

126
times ranked

4171
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Brain Iron Deficiency Changes the Stoichiometry of Adenosine Receptor Subtypes in Cortico-Striatal Terminals: Implications for Restless Legs Syndrome. <i>Molecules</i> , 2022, 27, 1489. | 3.8 | 11 |
| 2 | RestEaze: An Emerging Technology to Characterize Leg Movements During Sleep. <i>Journal of Medical Devices, Transactions of the ASME</i> , 2022, 16, . | 0.7 | 2 |
| 3 | Brain-iron deficiency models of restless legs syndrome. <i>Experimental Neurology</i> , 2022, 356, 114158. | 4.1 | 16 |
| 4 | Pilot study: can machine learning analyses of movement discriminate between leg movements in sleep (LMS) with vs. without cortical arousals?. <i>Sleep and Breathing</i> , 2021, 25, 373-379. | 1.7 | 4 |
| 5 | Developing a biomarker for restless leg syndrome using genome wide DNA methylation data. <i>Sleep Medicine</i> , 2021, 78, 120-127. | 1.6 | 4 |
| 6 | Akathisia and Restless Legs Syndrome. <i>Sleep Medicine Clinics</i> , 2021, 16, 249-267. | 2.6 | 9 |
| 7 | The Management of Restless Legs Syndrome: An Updated Algorithm. <i>Mayo Clinic Proceedings</i> , 2021, 96, 1921-1937. | 3.0 | 67 |
| 8 | We need to do better: A systematic review and meta-analysis of diagnostic test accuracy of restless legs syndrome screening instruments. <i>Sleep Medicine Reviews</i> , 2021, 58, 101461. | 8.5 | 22 |
| 9 | Randomized, placebo-controlled trial of ferric carboxymaltose in restless legs syndrome patients with iron deficiency anemia. <i>Sleep Medicine</i> , 2021, 84, 179-186. | 1.6 | 7 |
| 10 | The Safety and Efficacy of Pregabalin Add-on Therapy in Restless Legs Syndrome Patients. <i>Frontiers in Neurology</i> , 2021, 12, 786408. | 2.4 | 2 |
| 11 | Moderate to severe but not mild RLS is associated with greater sleep-related sympathetic autonomic activation than healthy adults without RLS. <i>Sleep Medicine</i> , 2020, 68, 89-95. | 1.6 | 15 |
| 12 | Resting-state connectivity and the effects of treatment in restless legs syndrome. <i>Sleep Medicine</i> , 2020, 67, 33-38. | 1.6 | 9 |
| 13 | Iron-deficiency and dopaminergic treatment effects on RLS-Like behaviors of an animal model with the brain iron deficiency pattern of the restless legs syndrome. <i>Sleep Medicine</i> , 2020, 71, 141-148. | 1.6 | 15 |
| 14 | Developing a behavioral model of Restless Legs Syndrome utilizing mice with natural variances in ventral midbrain iron. <i>Sleep Medicine</i> , 2020, 71, 135-140. | 1.6 | 4 |
| 15 | Evidence for communication of peripheral iron status to cerebrospinal fluid: clinical implications for therapeutic strategy. <i>Fluids and Barriers of the CNS</i> , 2020, 17, 28. | 5.0 | 6 |
| 16 | New Insights into the Neurobiology of Restless Legs Syndrome. <i>Neuroscientist</i> , 2019, 25, 113-125. | 3.5 | 85 |
| 17 | Extracellular vesicles reveal abnormalities in neuronal iron metabolism in restless legs syndrome. <i>Sleep</i> , 2019, 42, . | 1.1 | 13 |
| 18 | Evidence-based and consensus clinical practice guidelines for the iron treatment of restless legs syndrome/Willis-Ekbom disease in adults and children: an IRLSSG task force report. <i>Sleep Medicine</i> , 2018, 41, 27-44. | 1.6 | 228 |

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|----|---|------|-----------|
| 19 | The Appropriate Use of Opioids in the Treatment of Refractory Restless Legs Syndrome. Mayo Clinic Proceedings, 2018, 93, 59-67. | 3.0 | 47 |
| 20 | Diurnal variation of default mode network in patients with restless legs syndrome. Sleep Medicine, 2018, 41, 1-8. | 1.6 | 29 |
| 21 | Efficacy of ferric carboxymaltose (FCM) 500Âmg dose for the treatment of Restless Legs Syndrome. Sleep Medicine, 2018, 42, 7-12. | 1.6 | 16 |
| 22 | A direct interaction between two Restless Legs Syndrome predisposing genes: MEIS1 and SKOR1. Scientific Reports, 2018, 8, 12173. | 3.3 | 23 |
| 23 | Assessment of change in restless legs syndrome symptoms during the acute drug-withdrawal period. Sleep Medicine, 2018, 52, 80-87. | 1.6 | 4 |
| 24 | Connectome and molecular pharmacological differences in the dopaminergic system in restless legs syndrome (RLS): plastic changes and neuroadaptations that may contribute to augmentation. Sleep Medicine, 2017, 31, 71-77. | 1.6 | 46 |
| 25 | Intervening Leg Movements Disrupt PLMS Sequences. Sleep, 2017, 40, . | 1.1 | 3 |
| 26 | Identification of novel risk loci for restless legs syndrome in genome-wide association studies in individuals of European ancestry: a meta-analysis. Lancet Neurology, The, 2017, 16, 898-907. | 10.2 | 191 |
| 27 | Allocating provider resources to diagnose and treat restless legs syndrome: a cost-utility analysis. Sleep Medicine, 2017, 38, 44-49. | 1.6 | 4 |
| 28 | In search of alternatives to dopaminergic ligands for the treatment of restless legs syndrome: iron, glutamate, and adenosine. Sleep Medicine, 2017, 31, 86-92. | 1.6 | 34 |
| 29 | Targeting hypersensitive corticostriatal terminals in restless legs syndrome. Annals of Neurology, 2017, 82, 951-960. | 5.3 | 52 |
| 30 | Pivotal Role of Adenosine Neurotransmission in Restless Legs Syndrome. Frontiers in Neuroscience, 2017, 11, 722. | 2.8 | 64 |
| 31 | Inter-movement interval as a primary stable measure of periodic limb movements of sleep. Sleep Medicine, 2016, 17, 138-143. | 1.6 | 8 |
| 32 | Adenosine receptors as markers of brain iron deficiency: Implications for Restless Legs Syndrome. Neuropharmacology, 2016, 111, 160-168. | 4.1 | 45 |
| 33 | Clinical efficacy of ferric carboxymaltose treatment in patients with restless legs syndrome. Sleep Medicine, 2016, 25, 16-23. | 1.6 | 46 |
| 34 | Defining morphology of periodic leg movements in sleep: an evidence-based definition of a minimum window of sustained activity. Sleep and Breathing, 2016, 20, 1293-1299. | 1.7 | 5 |
| 35 | Default mode network disturbances in restless legs syndrome/Willisâ€™Ekbom disease. Sleep Medicine, 2016, 23, 6-11. | 1.6 | 27 |
| 36 | Brain iron deficiency in idiopathic restless legs syndrome measured by quantitative magnetic susceptibility at 7 tesla. Sleep Medicine, 2016, 22, 75-82. | 1.6 | 70 |

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|----|---|-----|-----------|
| 37 | Response to the letter "Characterization of the painful restless legs syndrome" Sleep Medicine, 2015, 16, 1448. | 1.6 | 1 |
| 38 | A comparison of MRI tissue relaxometry and ROI methods used to determine regional brain iron concentrations in restless legs syndrome. Medical Devices: Evidence and Research, 2015, 8, 341. | 0.8 | 9 |
| 39 | MATPLM1, A MATLAB script for scoring of periodic limb movements: preliminary validation with visual scoring. Sleep Medicine, 2015, 16, 1541-1549. | 1.6 | 18 |
| 40 | Co-registration of magnetic resonance spectroscopy and transcranial magnetic stimulation. Journal of Neuroscience Methods, 2015, 242, 52-57. | 2.5 | 9 |
| 41 | Response to "Characterization of the painful restless legs syndrome" Sleep Medicine, 2015, 16, 898. | 1.6 | 0 |
| 42 | Prevalence and clinical characteristics of patients with restless legs syndrome with painful symptoms. Sleep Medicine, 2015, 16, 775-778. | 1.6 | 33 |
| 43 | Gray matter alteration in patients with restless legs syndrome: a voxel-based morphometry study. Clinical Imaging, 2015, 39, 20-25. | 1.5 | 36 |
| 44 | Altered white matter integrity in primary restless legs syndrome patients: diffusion tensor imaging study. Neurological Research, 2014, 36, 769-774. | 1.3 | 28 |
| 45 | Response to intravenous iron in patients with iron deficiency anemia (IDA) and restless leg syndrome (Willis-Ekbom disease). Sleep Medicine, 2014, 15, 1473-1476. | 1.6 | 55 |
| 46 | Functional connectivity alteration of the thalamus in restless legs syndrome patients during the asymptomatic period: a resting-state connectivity study using functional magnetic resonance imaging. Sleep Medicine, 2014, 15, 289-294. | 1.6 | 63 |
| 47 | Low brain iron effects and reversibility on striatal dopamine dynamics. Experimental Neurology, 2014, 261, 462-468. | 4.1 | 52 |
| 48 | Altered Brain iron homeostasis and dopaminergic function in Restless Legs Syndrome (Willis-Ekbom) Tj ETQqO 0,0,rgBT /Overlock 10 | 1.6 | 251 |
| 49 | Latest Guidelines and Advances for Treatment of Restless Legs Syndrome. Journal of Clinical Psychiatry, 2014, 75, e08. | 2.2 | 8 |
| 50 | Proteomic analysis of the cerebrospinal fluid of patients with restless legs syndrome/Willis-Ekbom disease. Fluids and Barriers of the CNS, 2013, 10, 20. | 5.0 | 32 |
| 51 | The long-term treatment of restless legs syndrome/Willis-Ekbom disease: evidence-based guidelines and clinical consensus best practice guidance: a report from the International Restless Legs Syndrome Study Group. Sleep Medicine, 2013, 14, 675-684. | 1.6 | 260 |
| 52 | Lower molecular weight intravenous iron dextran for restless legs syndrome. Sleep Medicine, 2013, 14, 274-277. | 1.6 | 54 |
| 53 | Willis-Ekbom Disease Foundation Revised Consensus Statement on the Management of Restless Legs Syndrome. Mayo Clinic Proceedings, 2013, 88, 977-986. | 3.0 | 131 |
| 54 | The prevalence and impact of restless legs syndrome on patients with iron deficiency anemia. American Journal of Hematology, 2013, 88, 261-264. | 4.1 | 189 |

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|----|---|------|-----------|
| 55 | Thalamic glutamate/glutamine in restless legs syndrome. <i>Neurology</i> , 2013, 80, 2028-2034. | 1.1 | 156 |
| 56 | Increased Synaptic Dopamine in the Putamen in Restless Legs Syndrome. <i>Sleep</i> , 2013, 36, 51-57. | 1.1 | 93 |
| 57 | Association of Restless Legs Syndrome Variants in Korean Patients with Restless Legs Syndrome. <i>Sleep</i> , 2013, 36, 1787-1791. | 1.1 | 27 |
| 58 | Role of Striatal A2A Receptor Subpopulations in Neurological Disorders. , 2013, , 179-197. | | 1 |
| 59 | Systems genetic analysis of multivariate response to iron deficiency in mice. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2012, 302, R1282-R1296. | 1.8 | 24 |
| 60 | Dissociative Changes in the B _{max} and K _D of Dopamine D ₂ /D ₃ Receptors with Aging Observed in Functional Subdivisions of the Striatum: A Revisit with an Improved Data Analysis Method. <i>Journal of Nuclear Medicine</i> , 2012, 53, 805-812. | 5.0 | 17 |
| 61 | Systems genetic analysis of the effects of iron deficiency in mouse brain. <i>Neurogenetics</i> , 2012, 13, 147-157. | 1.4 | 36 |
| 62 | Postmortem and imaging based analyses reveal CNS decreased myelination in restless legs syndrome. <i>Sleep Medicine</i> , 2011, 12, 614-619. | 1.6 | 72 |
| 63 | A 10-year, longitudinal assessment of dopamine agonists and methadone in the treatment of restless legs syndrome. <i>Sleep Medicine</i> , 2011, 12, 440-444. | 1.6 | 159 |
| 64 | Clinical efficacy and safety of IV ferric carboxymaltose (FCM) treatment of RLS: A multi-centred, placebo-controlled preliminary clinical trial. <i>Sleep Medicine</i> , 2011, 12, 906-913. | 1.6 | 126 |
| 65 | The Dopamine Transporter is Decreased in the Striatum of Subjects with Restless Legs Syndrome. <i>Sleep</i> , 2011, 34, 341-347. | 1.1 | 126 |
| 66 | Another dopamine agonist for treatment of restless legs syndrome. <i>Lancet Neurology</i> , The, 2011, 10, 675-677. | 10.2 | 1 |
| 67 | Profile of altered brain iron acquisition in restless legs syndrome. <i>Brain</i> , 2011, 134, 959-968. | 7.6 | 203 |
| 68 | Restless legs syndrome and periodic leg movements in sleep. <i>Handbook of Clinical Neurology</i> / Edited By P J Vinken and G W Bruyn, 2011, 99, 913-948. | 1.8 | 21 |
| 69 | Pregnancy accounts for most of the gender difference in prevalence of familial RLS. <i>Sleep Medicine</i> , 2010, 11, 310-313. | 1.6 | 90 |
| 70 | Restless legs syndrome: Understanding its consequences and the need for better treatment. <i>Sleep Medicine</i> , 2010, 11, 807-815. | 1.6 | 165 |
| 71 | Up-regulation of striatal adenosine A2A receptors with iron deficiency in rats. <i>Experimental Neurology</i> , 2010, 224, 292-298. | 4.1 | 27 |
| 72 | Diurnal cycle influences peripheral and brain iron levels in mice. <i>Journal of Applied Physiology</i> , 2009, 106, 187-193. | 2.5 | 38 |

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|----|--|-----|-----------|
| 73 | Altered dopaminergic profile in the putamen and substantia nigra in restless leg syndrome. <i>Brain</i> , 2009, 132, 2403-2412. | 7.6 | 299 |
| 74 | Iron Dysregulation in Restless Legs Syndrome. , 2009, , 61-68. | | 1 |
| 75 | Diminished iron concentrations increase adenosine A2A receptor levels in mouse striatum and cultured human neuroblastoma cells. <i>Experimental Neurology</i> , 2009, 215, 236-242. | 4.1 | 22 |
| 76 | Abnormally increased CSF 3-Ortho-methyl dopa (3-OMD) in untreated restless legs syndrome (RLS) patients indicates more severe disease and possibly abnormally increased dopamine synthesis. <i>Sleep Medicine</i> , 2009, 10, 123-128. | 1.6 | 85 |
| 77 | A randomized, double-blind, placebo-controlled trial of intravenous iron sucrose in restless legs syndrome. <i>Sleep Medicine</i> , 2009, 10, 206-211. | 1.6 | 114 |
| 78 | RLS and blood donation. <i>Sleep Medicine</i> , 2009, 10, 844-849. | 1.6 | 24 |
| 79 | The four diagnostic criteria for Restless Legs Syndrome are unable to exclude confounding conditions (â€œmimicsâ€). <i>Sleep Medicine</i> , 2009, 10, 976-981. | 1.6 | 246 |
| 80 | The dopaminergic neurons of the A11 system in RLS autopsy brains appear normal. <i>Sleep Medicine</i> , 2009, 10, 1155-1157. | 1.6 | 75 |
| 81 | Iron Deficiency Alters the Dayâ€Night Variation in Monoamine Levels in Mice. <i>Chronobiology International</i> , 2009, 26, 447-463. | 2.0 | 31 |
| 82 | Mitochondrial Ferritin in the Substantia Nigra in Restless Legs Syndrome. <i>Journal of Neuropathology and Experimental Neurology</i> , 2009, 68, 1193-1199. | 1.7 | 68 |
| 83 | Neuroimaging in Restless Legs Syndrome. , 2009, , 78-82. | | 3 |
| 84 | Iron deficiency alters dopamine uptake and response to <sc>L</sc>â€DOPA injection in Spragueâ€Dawley rats. <i>Journal of Neurochemistry</i> , 2008, 106, 205-215. | 3.9 | 76 |
| 85 | Validation of the Hopkins telephone diagnostic interview for restless legs syndrome. <i>Sleep Medicine</i> , 2008, 9, 283-289. | 1.6 | 100 |
| 86 | Epidemiology of Restless Legs Syndrome in Korean Adults. <i>Sleep</i> , 2008, 31, 219-223. | 1.1 | 119 |
| 87 | Altered Iron Metabolism in Lymphocytes from Subjects with Restless Legs Syndrome. <i>Sleep</i> , 2008, 31, 847-852. | 1.1 | 35 |
| 88 | Altered expression of ironâ€management proteins in the brain microvasculature of Restless Legs Syndrome. <i>FASEB Journal</i> , 2008, 22, 1191.5. | 0.5 | 0 |
| 89 | Systems genetic analysis of peripheral iron parameters in the mouse. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2007, 293, R116-R124. | 1.8 | 25 |
| 90 | Diagnostic Standards for Dopaminergic Augmentation of Restless Legs Syndrome: Report from a World Association of Sleep Medicine â€International Restless Legs Syndrome Study Group Consensus Conference at the Max Planck Institute. <i>Sleep Medicine</i> , 2007, 8, 520-530. | 1.6 | 264 |

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|-----|--|-----|-----------|
| 91 | The role of iron in restless legs syndrome. <i>Movement Disorders</i> , 2007, 22, S440-S448. | 3.9 | 243 |
| 92 | Augmentation as a treatment complication of restless legs syndrome: Concept and management. <i>Movement Disorders</i> , 2007, 22, S476-S484. | 3.9 | 81 |
| 93 | Is ferroportinâ€“hepcidin signaling altered in restless legs syndrome?. <i>Journal of the Neurological Sciences</i> , 2006, 247, 173-179. | 0.6 | 73 |
| 94 | Cognitive deficits associated with restless legs syndrome (RLS). <i>Sleep Medicine</i> , 2006, 7, 25-30. | 1.6 | 193 |
| 95 | Circadian changes in CSF dopaminergic measures in restless legs syndrome. <i>Sleep Medicine</i> , 2006, 7, 263-268. | 1.6 | 85 |
| 96 | MRI-determined regional brain iron concentrations in early- and late-onset restless legs syndrome. <i>Sleep Medicine</i> , 2006, 7, 458-461. | 1.6 | 219 |
| 97 | Restless legs syndrome augmentation associated with tramadol. <i>Sleep Medicine</i> , 2006, 7, 592-593. | 1.6 | 92 |
| 98 | The effects of dietary iron deprivation on murine circadian sleep architecture. <i>Sleep Medicine</i> , 2006, 7, 634-640. | 1.6 | 46 |
| 99 | Ferritin subunits in CSF are decreased in restless legs syndrome. <i>Translational Research</i> , 2006, 147, 67-73. | 2.3 | 70 |
| 100 | Segregation Analysis of Restless Legs Syndrome: Possible Evidence for a Major Gene in a Family Study Using Blinded Diagnoses. <i>Human Heredity</i> , 2006, 62, 157-164. | 0.8 | 35 |
| 101 | Validation of the Restless Legs Syndrome Quality of Life Questionnaire. <i>Value in Health</i> , 2005, 8, 157-167. | 0.3 | 105 |
| 102 | Investigation into the correlation between sensation and leg movement in restless legs syndrome. <i>Movement Disorders</i> , 2005, 20, 1097-1103. | 3.9 | 17 |
| 103 | Ferritin Levels in the Cerebrospinal Fluid and Restless Legs Syndrome: Effects of Different Clinical Phenotypes. <i>Sleep</i> , 2005, 28, 1069-1075. | 1.1 | 104 |
| 104 | Repeated IV doses of iron provides effective supplemental treatment of restless legs syndrome. <i>Sleep Medicine</i> , 2005, 6, 301-305. | 1.6 | 101 |
| 105 | Response to Clinical Corners case (<i>Sleep Medicine</i> 6/2: 83â€“4): Pregnancy associated with daytime sleepiness and nighttime restlessness. <i>Sleep Medicine</i> , 2005, 6, 475. | 1.6 | 4 |
| 106 | An Update on the Dopaminergic Treatment of Restless Legs Syndrome and Periodic Limb Movement Disorder. <i>Sleep</i> , 2004, 27, 560-583. | 1.1 | 283 |
| 107 | Thy1 expression in the brain is affected by iron and is decreased in Restless Legs Syndrome. <i>Journal of the Neurological Sciences</i> , 2004, 220, 59-66. | 0.6 | 69 |
| 108 | An Algorithm for the Management of Restless Legs Syndrome. <i>Mayo Clinic Proceedings</i> , 2004, 79, 916-922. | 3.0 | 287 |

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|-----|---|------|-----------|
| 109 | The treatment of restless legs syndrome with intravenous iron dextran. <i>Sleep Medicine</i> , 2004, 5, 231-235. | 1.6 | 190 |
| 110 | Evaluating the quality of life of patients with restless legs syndrome. <i>Clinical Therapeutics</i> , 2004, 26, 925-935. | 2.5 | 263 |
| 111 | The Johns Hopkins telephone diagnostic interview for the restless legs syndrome: preliminary investigation for validation in a multi-center patient and control population. <i>Sleep Medicine</i> , 2003, 4, 137-141. | 1.6 | 86 |
| 112 | Restless Legs Syndrome. <i>New England Journal of Medicine</i> , 2003, 348, 2103-2109. | 27.0 | 300 |
| 113 | Validation of the Johns Hopkins restless legs severity scale. <i>Sleep Medicine</i> , 2001, 2, 239-242. | 1.6 | 162 |
| 114 | Restless Legs Syndrome. <i>Journal of Clinical Neurophysiology</i> , 2001, 18, 128-147. | 1.7 | 474 |
| 115 | CSF dopamine, serotonin, and biopterin metabolites in patients with restless legs syndrome. <i>Movement Disorders</i> , 2001, 16, 144-149. | 3.9 | 69 |
| 116 | Insight into the pathophysiology of restless legs syndrome. <i>Journal of Neuroscience Research</i> , 2000, 62, 623-628. | 2.9 | 209 |
| 117 | Defining the phenotype of the restless legs syndrome (RLS) using age-of-symptom-onset. <i>Sleep Medicine</i> , 2000, 1, 11-19. | 1.6 | 211 |
| 118 | Insight into the pathophysiology of restless legs syndrome. <i>Journal of Neuroscience Research</i> , 2000, 62, 623-628. | 2.9 | 1 |
| 119 | Iron and The Restless Legs Syndrome. <i>Sleep</i> , 1998, 21, 381-387. | 1.1 | 324 |
| 120 | Pergolide and Carbidopa/Levodopa Treatment of the Restless Legs Syndrome and Periodic Leg Movements in Sleep in a Consecutive Series of Patients. <i>Sleep</i> , 1996, 19, 801-810. | 1.1 | 184 |
| 121 | Augmentation of the Restless Legs Syndrome With Carbidopa/Levodopa. <i>Sleep</i> , 1996, 19, 205-213. | 1.1 | 424 |
| 122 | Toward a better definition of the restless legs syndrome. <i>Movement Disorders</i> , 1995, 10, 634-642. | 3.9 | 1,004 |