

Birgit Frauscher

List of Publications by Year in descending order

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Version: 2024-02-01

118
papers

6,185
citations

57631

44
h-index

79541

73
g-index

121
all docs

121
docs citations

121
times ranked

5186
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Normative EMG Values during REM Sleep for the Diagnosis of REM Sleep Behavior Disorder. <i>Sleep</i> , 2012, 35, 835-847. | 0.6 | 332 |
| 2 | A single-item question screen for rapid eye movement sleep behavior disorder: A multicenter validation study. <i>Movement Disorders</i> , 2012, 27, 913-916. | 2.2 | 311 |
| 3 | High-frequency oscillations: The state of clinical research. <i>Epilepsia</i> , 2017, 58, 1316-1329. | 2.6 | 260 |
| 4 | Risk factors for neurodegeneration in idiopathic rapid eye movement sleep behavior disorder: A multicenter study. <i>Annals of Neurology</i> , 2015, 77, 830-839. | 2.8 | 248 |
| 5 | Facilitation of epileptic activity during sleep is mediated by high amplitude slow waves. <i>Brain</i> , 2015, 138, 1629-1641. | 3.7 | 173 |
| 6 | DQB1 Locus Alone Explains Most of the Risk and Protection in Narcolepsy with Cataplexy in Europe. <i>Sleep</i> , 2014, 37, 19-25. | 0.6 | 164 |
| 7 | Prevalence and determinants of rapid eye movement sleep behavior disorder in the general population. <i>Sleep</i> , 2018, 41, . | 0.6 | 163 |
| 8 | Quantification of Electromyographic Activity During REM Sleep in Multiple Muscles in REM Sleep Behavior Disorder. <i>Sleep</i> , 2008, 31, 724-731. | 0.6 | 160 |
| 9 | High-Frequency Oscillations in the Normal Human Brain. <i>Annals of Neurology</i> , 2018, 84, 374-385. | 2.8 | 158 |
| 10 | Atlas of the normal intracranial electroencephalogram: neurophysiological awake activity in different cortical areas. <i>Brain</i> , 2018, 141, 1130-1144. | 3.7 | 155 |
| 11 | HLA-DPB1 and HLA Class I Confer Risk of and Protection from Narcolepsy. <i>American Journal of Human Genetics</i> , 2015, 96, 136-146. | 2.6 | 125 |
| 12 | Video analysis of motor events in REM sleep behavior disorder. <i>Movement Disorders</i> , 2007, 22, 1464-1470. | 2.2 | 121 |
| 13 | Enteric nervous system α -synuclein immunoreactivity in idiopathic REM sleep behavior disorder. <i>Neurology</i> , 2015, 85, 1761-1768. | 1.5 | 121 |
| 14 | Localization of the Epileptogenic Zone Using High Frequency Oscillations. <i>Frontiers in Neurology</i> , 2019, 10, 94. | 1.1 | 102 |
| 15 | The severity range of restless legs syndrome (RLS) and augmentation in a prospective patient cohort: Association with ferritin levels. <i>Sleep Medicine</i> , 2009, 10, 611-615. | 0.8 | 96 |
| 16 | EEG desynchronization during phasic REM sleep suppresses interictal epileptic activity in humans. <i>Epilepsia</i> , 2016, 57, 879-888. | 2.6 | 95 |
| 17 | Interaction with slow waves during sleep improves discrimination of physiologic and pathologic high-frequency oscillations (80-500 Hz). <i>Epilepsia</i> , 2016, 57, 869-878. | 2.6 | 91 |
| 18 | Delayed Diagnosis, Range of Severity, and Multiple Sleep Comorbidities: A Clinical and Polysomnographic Analysis of 100 Patients of the Innsbruck Narcolepsy Cohort. <i>Journal of Clinical Sleep Medicine</i> , 2013, 09, 805-812. | 1.4 | 90 |

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|----|---|-----|-----------|
| 19 | Comorbidity and medication in REM sleep behavior disorder. <i>Neurology</i> , 2014, 82, 1076-1079. | 1.5 | 90 |
| 20 | Autonomic symptoms in idiopathic REM behavior disorder: a multicentre caseâ€“control study. <i>Journal of Neurology</i> , 2014, 261, 1112-1118. | 1.8 | 90 |
| 21 | Validation of the Innsbruck REM sleep behavior disorder inventory. <i>Movement Disorders</i> , 2012, 27, 1673-1678. | 2.2 | 87 |
| 22 | Motor Events during Healthy Sleep: A Quantitative Polysomnographic Study. <i>Sleep</i> , 2014, 37, 763-773. | 0.6 | 87 |
| 23 | Probable RBD and association with neurodegenerative disease markers: A populationâ€“based study. <i>Movement Disorders</i> , 2015, 30, 1417-1421. | 2.2 | 86 |
| 24 | Diagnostic value of the REM sleep behavior disorder screening questionnaire in Parkinson's disease. <i>Sleep Medicine</i> , 2015, 16, 186-189. | 0.8 | 86 |
| 25 | Association of Cortical Stimulationâ€“Induced Seizure With Surgical Outcome in Patients With Focal Drug-Resistant Epilepsy. <i>JAMA Neurology</i> , 2019, 76, 1070. | 4.5 | 79 |
| 26 | Subjective deficits of attention, cognition and depression in patients with narcolepsy. <i>Sleep Medicine</i> , 2015, 16, 45-51. | 0.8 | 78 |
| 27 | REM sleep behavior disorder in 703 sleep-disorder patients: The importance of eliciting a comprehensive sleep history. <i>Sleep Medicine</i> , 2010, 11, 167-171. | 0.8 | 75 |
| 28 | Long-Term Follow-up Investigation of Isolated Rapid Eye Movement Sleep Without Atonia Without Rapid Eye Movement Sleep Behavior Disorder: A Pilot Study. <i>Journal of Clinical Sleep Medicine</i> , 2015, 11, 1273-1279. | 1.4 | 75 |
| 29 | The morphology of high frequency oscillations (HFO) does not improve delineating the epileptogenic zone. <i>Clinical Neurophysiology</i> , 2016, 127, 2140-2148. | 0.7 | 73 |
| 30 | Phase-Amplitude Coupling Is Elevated in Deep Sleep and in the Onset Zone of Focal Epileptic Seizures. <i>Frontiers in Human Neuroscience</i> , 2016, 10, 387. | 1.0 | 71 |
| 31 | A multi-scale cortical wiring space links cellular architecture and functional dynamics in the human brain. <i>PLoS Biology</i> , 2020, 18, e3000979. | 2.6 | 68 |
| 32 | Scalp spindles are associated with widespread intracranial activity with unexpectedly low synchrony. <i>NeuroImage</i> , 2015, 105, 1-12. | 2.1 | 67 |
| 33 | Physiological and pathological high-frequency oscillations have distinct sleep-homeostatic properties. <i>NeuroImage: Clinical</i> , 2017, 14, 566-573. | 1.4 | 66 |
| 34 | Sleep, oscillations, interictal discharges, and seizures in human focal epilepsy. <i>Neurobiology of Disease</i> , 2019, 127, 545-553. | 2.1 | 65 |
| 35 | Intracranial EEG in the 21st Century. <i>Epilepsy Currents</i> , 2020, 20, 180-188. | 0.4 | 65 |
| 36 | Functional connectome contractions in temporal lobe epilepsy: Microstructural underpinnings and predictors of surgical outcome. <i>Epilepsia</i> , 2020, 61, 1221-1233. | 2.6 | 65 |

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|----|---|-----|-----------|
| 37 | Investigation of autonomic function in idiopathic REM sleep behavior disorder. <i>Journal of Neurology</i> , 2012, 259, 1056-1061. | 1.8 | 64 |
| 38 | Sleep and Respiration in 100 Healthy Caucasian Sleepersâ€”A Polysomnographic Study According to American Academy of Sleep Medicine Standards. <i>Sleep</i> , 2015, 38, 867-75. | 0.6 | 63 |
| 39 | Validation of an Integrated Software for the Detection of Rapid Eye Movement Sleep Behavior Disorder. <i>Sleep</i> , 2014, 37, 1663-1671. | 0.6 | 61 |
| 40 | Quantitative EEG of Rapid-Eye-Movement Sleep. <i>Clinical EEG and Neuroscience</i> , 2016, 47, 134-141. | 0.9 | 58 |
| 41 | Not Only Sleepwalking But NREM Parasomnia Irrespective of the Type Is Associated with HLA DQB1*05:01. <i>Journal of Clinical Sleep Medicine</i> , 2016, 12, 565-570. | 1.4 | 58 |
| 42 | Family history of idiopathic REM behavior disorder. <i>Neurology</i> , 2013, 80, 2233-2235. | 1.5 | 54 |
| 43 | Targeted Resequencing and Systematic InÂVivo Functional Testing Identifies Rare Variants in MEIS1 as Significant Contributors to Restless Legs Syndrome. <i>American Journal of Human Genetics</i> , 2014, 95, 85-95. | 2.6 | 52 |
| 44 | Myeloarchitecture gradients in the human insula: Histological underpinnings and association to intrinsic functional connectivity. <i>NeuroImage</i> , 2020, 216, 116859. | 2.1 | 51 |
| 45 | NREM sleep is the state of vigilance that best identifies the epileptogenic zone in the interictal electroencephalogram. <i>Epilepsia</i> , 2019, 60, 2404-2415. | 2.6 | 48 |
| 46 | How the Human Brain Sleeps: Direct Cortical Recordings of Normal Brain Activity. <i>Annals of Neurology</i> , 2020, 87, 289-301. | 2.8 | 48 |
| 47 | The relation between abnormal behaviors and REM sleep microstructure in patients with REM sleep behavior disorder. <i>Sleep Medicine</i> , 2009, 10, 174-181. | 0.8 | 46 |
| 48 | Sleep disorders and circadian rhythm in epilepsy revisited: a prospective controlled study. <i>Sleep Medicine</i> , 2015, 16, 237-242. | 0.8 | 46 |
| 49 | Defining muscle activities for assessment of rapid eye movement sleep behavior disorder: From a qualitative to a quantitative diagnostic level. <i>Sleep Medicine</i> , 2013, 14, 729-733. | 0.8 | 44 |
| 50 | Interictal Hippocampal Spiking Influences the Occurrence of Hippocampal Sleep Spindles. <i>Sleep</i> , 2015, 38, 1927-1933. | 0.6 | 44 |
| 51 | Detectability of Fast Ripples (>250ÂHz) on the Scalp EEG: A Proof-of-Principle Study with Subdermal Electrodes. <i>Brain Topography</i> , 2016, 29, 358-367. | 0.8 | 41 |
| 52 | Association of Daytime Sleepiness with COMT Polymorphism in Patients with Parkinson Disease: a Pilot Study. <i>Sleep</i> , 2004, 27, 733-736. | 0.6 | 39 |
| 53 | Relationships between interictal epileptic spikes and ripples in surface EEG. <i>Clinical Neurophysiology</i> , 2016, 127, 143-149. | 0.7 | 39 |
| 54 | Association of fast ripples on intracranial EEG and outcomes after epilepsy surgery. <i>Neurology</i> , 2020, 95, e2235-e2245. | 1.5 | 37 |

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|----|--|-----|-----------|
| 55 | Fragmentary myoclonus in sleep revisited: A polysomnographic study in 62 patients. <i>Sleep Medicine</i> , 2011, 12, 410-415. | 0.8 | 35 |
| 56 | The human K-complex: Insights from combined scalp-intracranial EEG recordings. <i>NeuroImage</i> , 2020, 213, 116748. | 2.1 | 35 |
| 57 | A Prospective Video-Polysomnographic Analysis of Movements during Physiological Sleep in 100 Healthy Sleepers. <i>Sleep</i> , 2015, 38, 1479-1487. | 0.6 | 34 |
| 58 | Interictal coupling of <sc>HFO</sc>s and slow oscillations predicts the seizure onset pattern in mesiotemporal lobe epilepsy. <i>Epilepsia</i> , 2019, 60, 1160-1170. | 2.6 | 33 |
| 59 | Dreaming furiously? A sleep laboratory study on the dream content of people with Parkinson's disease and with or without rapid eye movement sleep behavior disorder. <i>Sleep Medicine</i> , 2015, 16, 419-427. | 0.8 | 32 |
| 60 | Localizing the epileptogenic zone. <i>Current Opinion in Neurology</i> , 2020, 33, 198-206. | 1.8 | 32 |
| 61 | Interictal spike networks predict surgical outcome in patients with drug-resistant focal epilepsy. <i>Annals of Clinical and Translational Neurology</i> , 2021, 8, 1212-1223. | 1.7 | 32 |
| 62 | Quantitative assessment of isolated rapid eye movement (REM) sleep without atonia without clinical REM sleep behavior disorder: clinical and research implications. <i>Sleep Medicine</i> , 2014, 15, 1009-1015. | 0.8 | 31 |
| 63 | Sleep Disruption in Epilepsy: Ictal and Interictal Epileptic Activity Matter. <i>Annals of Neurology</i> , 2020, 88, 907-920. | 2.8 | 31 |
| 64 | A Descriptive Analysis of Neck Myoclonus During Routine Polysomnography. <i>Sleep</i> , 2010, 33, 1091-1096. | 0.6 | 30 |
| 65 | Sleep influences the intracerebral EEG pattern of focal cortical dysplasia. <i>Epilepsy Research</i> , 2015, 113, 132-139. | 0.8 | 30 |
| 66 | Auditory Startle Reaction is disinhibited in idiopathic Restless Legs Syndrome. <i>Sleep</i> , 2007, 30, 489-493. | 0.6 | 29 |
| 67 | Motor disturbances during non-REM and REM sleep in narcolepsy-cataplexy: a video-polysomnographic analysis. <i>Journal of Sleep Research</i> , 2011, 20, 514-521. | 1.7 | 29 |
| 68 | A Prospective Questionnaire Study in 100 Healthy Sleepers: Non-Bothersome Forms of Recognizable Sleep Disorders Are Still Present. <i>Journal of Clinical Sleep Medicine</i> , 2014, 10, 623-629. | 1.4 | 28 |
| 69 | Risk Factors for Phenoconversion in <sc>Rapid Eye Movement</sc> Sleep Behavior Disorder. <i>Annals of Neurology</i> , 2022, 91, 404-416. | 2.8 | 27 |
| 70 | Atypical neural topographies underpin dysfunctional pattern separation in temporal lobe epilepsy. <i>Brain</i> , 2021, 144, 2486-2498. | 3.7 | 26 |
| 71 | When spikes are symmetric, ripples are not: Bilateral spike and wave above 80 Hz in focal and generalized epilepsy. <i>Clinical Neurophysiology</i> , 2016, 127, 1794-1802. | 0.7 | 24 |
| 72 | Correcting for physiological ripples improves epileptic focus identification and outcome prediction. <i>Epilepsia</i> , 2022, 63, 483-496. | 2.6 | 23 |

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|----|---|-----|-----------|
| 73 | Daytime sleepiness is not increased in mild to moderate multiple sclerosis: a pupillographic study. <i>Sleep Medicine</i> , 2005, 6, 543-547. | 0.8 | 21 |
| 74 | Association of mitochondrial iron deficiency and dysfunction with idiopathic restless legs syndrome. <i>Movement Disorders</i> , 2019, 34, 114-123. | 2.2 | 21 |
| 75 | Fast oscillations >40 Hz localize the epileptogenic zone: An electrical source imaging study using high-density electroencephalography. <i>Clinical Neurophysiology</i> , 2021, 132, 568-580. | 0.7 | 20 |
| 76 | Sleep and epilepsy: A snapshot of knowledge and future research lines. <i>Journal of Sleep Research</i> , 2022, 31, e13622. | 1.7 | 20 |
| 77 | A skew-based method for identifying intracranial EEG channels with epileptic activity without detecting spikes, ripples, or fast ripples. <i>Clinical Neurophysiology</i> , 2020, 131, 183-192. | 0.7 | 19 |
| 78 | Rapid Eye Movement Sleep Sawtooth Waves Are Associated with Widespread Cortical Activations. <i>Journal of Neuroscience</i> , 2020, 40, 8900-8912. | 1.7 | 19 |
| 79 | C9orf72 Repeat Expansions in Rapid Eye Movement Sleep Behaviour Disorder. <i>Canadian Journal of Neurological Sciences</i> , 2014, 41, 759-762. | 0.3 | 18 |
| 80 | Differentiating epileptic from non-epileptic high frequency intracerebral EEG signals with measures of wavelet entropy. <i>Clinical Neurophysiology</i> , 2016, 127, 3529-3536. | 0.7 | 18 |
| 81 | Ripples in scalp EEGs of children: co-occurrence with sleep-specific transients and occurrence across sleep stages. <i>Sleep</i> , 2018, 41, . | 0.6 | 17 |
| 82 | Focal epilepsy disrupts spindle structure and function. <i>Scientific Reports</i> , 2022, 12, . | 1.6 | 17 |
| 83 | SleepSEEC: automatic sleep scoring using intracranial EEG recordings only. <i>Journal of Neural Engineering</i> , 2022, 19, 026057. | 1.8 | 15 |
| 84 | Different seizure-onset patterns in mesiotemporal lobe epilepsy have a distinct interictal signature. <i>Clinical Neurophysiology</i> , 2017, 128, 1282-1289. | 0.7 | 14 |
| 85 | Fast ripple analysis in human mesial temporal lobe epilepsy suggests two different seizure-generating mechanisms. <i>Neurobiology of Disease</i> , 2019, 127, 374-381. | 2.1 | 14 |
| 86 | Restless legs syndrome in Friedreich ataxia: A polysomnographic study. <i>Movement Disorders</i> , 2011, 26, 302-306. | 2.2 | 13 |
| 87 | Narcolepsy-cataplexy: deficient prepulse inhibition of blink reflex suggests pedunculopontine involvement. <i>Journal of Sleep Research</i> , 2012, 21, 495-501. | 1.7 | 13 |
| 88 | Sparse asynchronous cortical generators can produce measurable scalp EEG signals. <i>NeuroImage</i> , 2016, 138, 123-133. | 2.1 | 13 |
| 89 | The role of the melanoma gene MC1R in Parkinson disease and REM sleep behavior disorder. <i>Neurobiology of Aging</i> , 2016, 43, 180.e7-180.e13. | 1.5 | 12 |
| 90 | Sharply contoured theta waves are the human correlate of ponto-geniculo-occipital waves in the primary visual cortex. <i>Clinical Neurophysiology</i> , 2018, 129, 1526-1533. | 0.7 | 12 |

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|-----|--|-----|-----------|
| 91 | A prospective controlled study about sleep disorders in drug resistant epilepsy. <i>Sleep Medicine</i> , 2020, 75, 434-440. | 0.8 | 12 |
| 92 | Spatio-temporal spike dynamics predict surgical outcome in adult focal epilepsy. <i>Clinical Neurophysiology</i> , 2022, 134, 88-99. | 0.7 | 12 |
| 93 | Development and Validation of the 5-SENSE Score to Predict Focality of the Seizure-Onset Zone as Assessed by Stereoelectroencephalography. <i>JAMA Neurology</i> , 2022, 79, 70. | 4.5 | 12 |
| 94 | Clinical Yield of Electromagnetic Source Imaging and Hemodynamic Responses in Epilepsy. <i>Neurology</i> , 2022, 98, . | 1.5 | 12 |
| 95 | Is there a polysomnographic signature of augmentation in restless legs syndrome?. <i>Sleep Medicine</i> , 2014, 15, 1231-1240. | 0.8 | 11 |
| 96 | Region-specific complexity of the intracranial EEG in the sleeping human brain. <i>Scientific Reports</i> , 2022, 12, 451. | 1.6 | 9 |
| 97 | Oxygen desaturation during night sleep affects decision-making in patients with obstructive sleep apnea. <i>Journal of Sleep Research</i> , 2016, 25, 395-403. | 1.7 | 8 |
| 98 | Do periodic arm movements during sleep exist in healthy subjects? A polysomnographic study. <i>Sleep Medicine</i> , 2014, 15, 1150-1154. | 0.8 | 7 |
| 99 | Protocol for multicentre comparison of interictal high-frequency oscillations as a predictor of seizure freedom. <i>Brain Communications</i> , 2022, 4, . | 1.5 | 7 |
| 100 | Sleep modelled as a continuous and dynamic process predicts healthy ageing better than traditional sleep scoring. <i>Sleep Medicine</i> , 2021, 77, 136-146. | 0.8 | 6 |
| 101 | Relationship Between Epilepsy and Dreaming: Current Knowledge, Hypotheses, and Perspectives. <i>Frontiers in Neuroscience</i> , 2021, 15, 717078. | 1.4 | 4 |
| 102 | Hippocampal spindles and barques are normal intracranial electroencephalographic entities. <i>Clinical Neurophysiology</i> , 2021, 132, 3002-3009. | 0.7 | 3 |
| 103 | Barques are generated in posterior hippocampus and phase reverse over lateral posterior hippocampal surface. <i>Clinical Neurophysiology</i> , 2022, 136, 150-157. | 0.7 | 3 |
| 104 | Sleep-related movement disorders. , 2014, , 314-332. | | 2 |
| 105 | Physiological Activity and Artefacts in the Human Epileptic Brain Studied with Intracerebral Depth Electrode EEG. , 2018, , 65-83. | | 2 |
| 106 | Future of Neurology & Technology: Stereoelectroencephalography in Presurgical Epilepsy Evaluation. <i>Neurology</i> , 2022, 98, . | 1.5 | 2 |
| 107 | Reply: "Restless Legs Syndrome and Parkinson's Disease" <i>Movement Disorders</i> , 2010, 25, 1314-1315. | 2.2 | 0 |
| 108 | Authors response to "Deficits of attention and cognition in narcoleptic patients " is it hypocretin dependent?" <i>Sleep Medicine</i> , 2015, 16, 1025. | 0.8 | 0 |

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|-----|---|-----|-----------|
| 109 | Epilepsie und Schlaf. , 2020, , 469-479. | | 0 |
| 110 | Provocative Hyperventilation in a Patient With Stroke-Like Migraine Attacks After Radiation Therapy. JAMA Neurology, 2022, , . | 4.5 | 0 |
| 111 | Title is missing!., 2020, 18, e3000979. | | 0 |
| 112 | Title is missing!., 2020, 18, e3000979. | | 0 |
| 113 | Title is missing!., 2020, 18, e3000979. | | 0 |
| 114 | Title is missing!., 2020, 18, e3000979. | | 0 |
| 115 | Title is missing!., 2020, 18, e3000979. | | 0 |
| 116 | Title is missing!., 2020, 18, e3000979. | | 0 |
| 117 | Title is missing!., 2020, 18, e3000979. | | 0 |
| 118 | Title is missing!., 2020, 18, e3000979. | | 0 |