

Gilles van Luijtelaar

List of Publications by Year in descending order

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138
papers

5,359
citations

66343

42
h-index

102487

66
g-index

147
all docs

147
docs citations

147
times ranked

3834
citing authors

#	ARTICLE	IF	CITATIONS
1	Evolving Concepts on the Pathophysiology of Absence Seizures. Archives of Neurology, 2005, 62, 371.	4.5	446
2	A revised Racine's scale for PTZ-induced seizures in rats. Physiology and Behavior, 2009, 98, 579-586.	2.1	305
3	Global and focal aspects of absence epilepsy: The contribution of genetic models. Neuroscience and Biobehavioral Reviews, 2006, 30, 983-1003.	6.1	187
4	The WAG/Rij strain: A genetic animal model of absence epilepsy with comorbidity of depression. Progress in Neuro-Psychopharmacology and Biological Psychiatry, 2011, 35, 854-876.	4.8	161
5	Onset and propagation of spike and slow wave discharges in human absence epilepsy: A MEG study. Epilepsia, 2009, 50, 2538-2548.	5.1	159
6	Impairment of intracortical GABAergic inhibition in a rat model of absence epilepsy. Epilepsy Research, 1995, 22, 43-51.	1.6	124
7	Sleep spindles and spike-wave discharges in EEG: Their generic features, similarities and distinctions disclosed with Fourier transform and continuous wavelet analysis. Journal of Neuroscience Methods, 2009, 180, 304-316.	2.5	121
8	Spike-wave discharges are necessary for the expression of behavioral depression-like symptoms. Epilepsia, 2010, 51, 146-160.	5.1	102
9	Space-time network connectivity and cortical activations preceding spike wave discharges in human absence epilepsy: a MEG study. Medical and Biological Engineering and Computing, 2011, 49, 555-565.	2.8	96
10	Antiepileptic action of N-palmitoylethanolamine through CB1 and PPAR- γ receptor activation in a genetic model of absence epilepsy. Neuropharmacology, 2013, 69, 115-126.	4.1	91
11	Absence Seizure Control by a Brain Computer Interface. Scientific Reports, 2017, 7, 2487.	3.3	91
12	An algorithm for real-time detection of spike-wave discharges in rodents. Journal of Neuroscience Methods, 2010, 194, 172-178.	2.5	83
13	Spike-wave discharges in WAG/Rij rats are preceded by delta and theta precursor activity in cortex and thalamus. Clinical Neurophysiology, 2011, 122, 687-695.	1.5	82
14	Thalamic lesions in a genetic rat model of absence epilepsy: Dissociation between spike-wave discharges and sleep spindles. Experimental Neurology, 2009, 217, 25-37.	4.1	80
15	Upholding WAG/Rij rats as a model of absence epileptogenesis: Hidden mechanisms and a new theory on seizure development. Neuroscience and Biobehavioral Reviews, 2016, 71, 388-408.	6.1	77
16	Dynamics of networks during absence seizure's on- and offset in rodents and man. Frontiers in Physiology, 2015, 6, 16.	2.8	76
17	The dynamics of cortico-thalamo-cortical interactions at the transition from pre-ictal to ictal LFPs in absence epilepsy. Neurobiology of Disease, 2012, 47, 49-60.	4.4	74
18	Fluoxetine Exerts Age-Dependent Effects on Behavior and Amygdala Neuroplasticity in the Rat. PLoS ONE, 2011, 6, e16646.	2.5	72

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19	Reticular nucleus-specific changes in β 3 subunit protein at GABA synapses in genetically epilepsy-prone rats. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 12512-12517.	7.1	64
20	Progress and Outlooks in a Genetic Absence Epilepsy Model (WAG/Rij). <i>Current Medicinal Chemistry</i> , 2014, 21, 704-721.	2.4	64
21	Methods of automated absence seizure detection, interference by stimulation, and possibilities for prediction in genetic absence models. <i>Journal of Neuroscience Methods</i> , 2016, 260, 144-158.	2.5	63
22	Macroscopic and microscopic spectral properties of brain networks during local and global synchronization. <i>Physical Review E</i> , 2017, 96, 012316.	2.1	61
23	Environmental manipulations early in development alter seizure activity, and HCN1 protein expression later in life. <i>European Journal of Neuroscience</i> , 2006, 23, 3346-3358.	2.6	59
24	Genetic Models of Absence Epilepsy in the Rat. , 2006, , 233-248.		58
25	The involvement of limbic structures in typical and atypical absence epilepsy. <i>Epilepsy Research</i> , 2013, 103, 111-123.	1.6	58
26	Cortical control of generalized absence seizures: effect of lidocaine applied to the somatosensory cortex in WAG/Rij rats. <i>Brain Research</i> , 2004, 1012, 127-137.	2.2	57
27	On the Origin and Suddenness of Absences in Genetic Absence Models. <i>Clinical EEG and Neuroscience</i> , 2011, 42, 83-97.	1.7	54
28	The ovarian hormones and absence epilepsy: a long-term EEG study and pharmacological effects in a genetic absence epilepsy model. <i>Epilepsy Research</i> , 2001, 46, 225-239.	1.6	53
29	Granger causality: Cortico-thalamic interdependencies during absence seizures in WAG/Rij rats. <i>Journal of Neuroscience Methods</i> , 2008, 170, 245-254.	2.5	53
30	WAG/Rij rats show a reduced expression of CB ₁ receptors in thalamic nuclei and respond to the CB ₁ receptor agonist, (+)-WIN55,212-2, with a reduced incidence of spike-wave discharges. <i>Epilepsia</i> , 2010, 51, 1511-1521.	5.1	53
31	Cortical and thalamic coherence during spike-wave seizures in WAG/Rij rats. <i>Epilepsy Research</i> , 2006, 71, 159-180.	1.6	52
32	EEG Findings in Burnout Patients. <i>Journal of Neuropsychiatry and Clinical Neurosciences</i> , 2010, 22, 208-217.	1.8	52
33	Animal models of absence epilepsies: What do they model and do sex and sex hormones matter?. <i>Neurobiology of Disease</i> , 2014, 72, 167-179.	4.4	50
34	Chromosomal Mapping of Genetic Loci Controlling Absence Epilepsy Phenotypes in the WAG/Rij Rat. <i>Epilepsia</i> , 2004, 45, 908-915.	5.1	49
35	Anti-epileptogenesis: Electrophysiology, diffusion tensor imaging and behavior in a genetic absence model. <i>Neurobiology of Disease</i> , 2013, 60, 126-138.	4.4	49
36	Corticosterone increases spike-wave discharges in a dose- and time-dependent manner in WAG/Rij rats. <i>Pharmacology Biochemistry and Behavior</i> , 2004, 78, 369-375.	2.9	48

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37	Midfrequency cortico-thalamic oscillations and the sleep cycle: Genetic, time of day and age effects. <i>Epilepsy Research</i> , 2007, 73, 259-265.	1.6	48
38	Electroencephalographic characterization of spike-wave discharges in cortex and thalamus in WAG/Rij rats. <i>Epilepsia</i> , 2007, 48, 2296-311.	5.1	48
39	Electroencephalographic precursors of spike-wave discharges in a genetic rat model of absence epilepsy: Power spectrum and coherence EEG analyses. <i>Epilepsy Research</i> , 2009, 84, 159-171.	1.6	47
40	Absence seizures are reduced by the enhancement of GABA-ergic inhibition in the hippocampus in WAG/Rij rats. <i>Neuroscience Letters</i> , 2007, 416, 17-21.	2.1	46
41	Sensory Gating in Rats: Lack of Correlation Between Auditory Evoked Potential Gating and Prepulse Inhibition. <i>Schizophrenia Bulletin</i> , 1999, 25, 777-788.	4.3	44
42	Peri-ictal network dynamics of spike-wave discharges: Phase and spectral characteristics. <i>Experimental Neurology</i> , 2013, 239, 235-247.	4.1	44
43	Effect of systemic and intracortical administration of phenytoin in two genetic models of absence epilepsy. <i>British Journal of Pharmacology</i> , 2006, 148, 1076-1082.	5.4	43
44	Metabotropic glutamate receptors in the thalamocortical network: Strategic targets for the treatment of absence epilepsy. <i>Epilepsia</i> , 2011, 52, 1211-1222.	5.1	43
45	Endogenous rhythm of absence epilepsy: Relationship with general motor activity and sleep-wake states. <i>Epilepsy Research</i> , 2011, 93, 120-127.	1.6	42
46	Thalamic stimulation in absence epilepsy. <i>Epilepsy Research</i> , 2013, 106, 136-145.	1.6	42
47	The Effect of Generalized Absence Seizures on the Progression of Kindling in the Rat. <i>Epilepsia</i> , 2007, 48, 150-156.	5.1	41
48	Amygdala Kindling in the WAG/Rij Rat Model of Absence Epilepsy. <i>Epilepsia</i> , 2006, 47, 33-40.	5.1	40
49	Time-frequency analysis of spike-wave discharges using a modified wavelet transform. <i>Journal of Neuroscience Methods</i> , 2006, 154, 80-88.	2.5	40
50	Application of adaptive nonlinear Granger causality: Disclosing network changes before and after absence seizure onset in a genetic rat model. <i>Journal of Neuroscience Methods</i> , 2014, 226, 33-41.	2.5	40
51	Effects of neurosteroids on spike-wave discharges in the genetic epileptic WAG/Rij rat. <i>Epilepsy Research</i> , 1999, 33, 23-29.	1.6	38
52	Gas mixtures for anaesthesia and euthanasia in broiler chickens. <i>World's Poultry Science Journal</i> , 2000, 56, 225-234.	3.0	37
53	AMPA and GABAB receptor antagonists and their interaction in rats with a genetic form of absence epilepsy. <i>European Journal of Pharmacology</i> , 2001, 430, 251-259.	3.5	37
54	Targeting metabotropic glutamate receptors in the treatment of epilepsy: rationale and current status. <i>Expert Opinion on Therapeutic Targets</i> , 2019, 23, 341-351.	3.4	37

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55	Stress, glucocorticoids and absences in a genetic epilepsy model. <i>Hormones and Behavior</i> , 2012, 61, 706-710.	2.1	36
56	Modulation of thalamocortical oscillations by TRIP8b, an auxiliary subunit for HCN channels. <i>Brain Structure and Function</i> , 2018, 223, 1537-1564.	2.3	36
57	Cortical and limbic excitability in rats with absence epilepsy. <i>Epilepsy Research</i> , 2004, 62, 189-198.	1.6	35
58	Cognition and Vigilance: Differential Effects of Diazepam and Buspirone on Memory and Psychomotor Performance. <i>Neuropsychobiology</i> , 1992, 26, 146-150.	1.9	34
59	NMDA-NR1 and AMPA-GluR4 receptor subunit immunoreactivities in the absence epileptic WAG/Rij rat. <i>Epilepsy Research</i> , 2006, 69, 119-128.	1.6	32
60	Genetically epileptic rats show a pronounced intermediate stage of sleep. <i>Physiology and Behavior</i> , 1990, 47, 213-215.	2.1	31
61	Morphometric Golgi study of cortical locations in WAG/Rij rats: the cortical focus theory. <i>Neuroscience Research</i> , 2005, 51, 119-128.	1.9	30
62	Anti-absence activity of mGlu1 and mGlu5 receptor enhancers and their interaction with a GABA reuptake inhibitor: Effect of local infusions in the somatosensory cortex and thalamus. <i>Epilepsia</i> , 2015, 56, 1141-1151.	5.1	30
63	Electroencephalographic Characterization of Spike-Wave Discharges in Cortex and Thalamus in WAG/Rij Rats. <i>Epilepsia</i> , 2007, 48, 2296-2311.	5.1	28
64	Cytokines and Absence Seizures in a Genetic Rat Model. <i>Neurophysiology</i> , 2012, 43, 478-486.	0.3	28
65	Termination of ongoing spike-wave discharges investigated by cortico-thalamic network analyses. <i>Neurobiology of Disease</i> , 2014, 70, 127-137.	4.4	28
66	Mixed forms of epilepsy in a subpopulation of WAG/Rij rats. <i>Epilepsy and Behavior</i> , 2004, 5, 655-661.	1.7	27
67	Reduction of adrenergic neurotransmission with clonidine aggravates spike-wave seizures and alters activity in the cortex and the thalamus in WAG/Rij rats. <i>Brain Research Bulletin</i> , 2005, 64, 533-540.	3.0	26
68	Modeling spike-wave discharges by a complex network of neuronal oscillators. <i>Neural Networks</i> , 2018, 98, 271-282.	5.9	26
69	Establishing Drug Effects on Electrocorticographic Activity in a Genetic Absence Epilepsy Model: Advances and Pitfalls. <i>Frontiers in Pharmacology</i> , 2020, 11, 395.	3.5	26
70	Inhibition errors in borderline personality disorder with psychotic-like symptoms. <i>Progress in Neuro-Psychopharmacology and Biological Psychiatry</i> , 2008, 32, 267-273.	4.8	25
71	The role of the environment on the development of spike-wave discharges in two strains of rats. <i>Physiology and Behavior</i> , 2005, 84, 379-386.	2.1	24
72	Circadian Rhythms and Epilepsy: A Suitable Case for Absence Epilepsy. <i>Frontiers in Neurology</i> , 2020, 11, 245.	2.4	24

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73	P50 Gating is Not Affected by Selective Attention. <i>Journal of Psychophysiology</i> , 2003, 17, 23-29.	0.7	24
74	Effects of Diazepam and Buspirone on Reaction Time of Saccadic Eye Movements. <i>Neuropsychobiology</i> , 1995, 32, 156-160.	1.9	22
75	Finasteride inhibits the progesterone-induced spike-wave discharges in a genetic model of absence epilepsy. <i>Pharmacology Biochemistry and Behavior</i> , 2003, 75, 889-894.	2.9	22
76	The effects of vigabatrin on type II spike wave discharges in rats. <i>Neuroscience Letters</i> , 2003, 338, 177-180.	2.1	22
77	Modulation of Hyperpolarization-Activated Inward Current and Thalamic Activity Modes by Different Cyclic Nucleotides. <i>Frontiers in Cellular Neuroscience</i> , 2018, 12, 369.	3.7	22
78	The effect of acupuncture on mood and working memory in patients with depression and schizophrenia. <i>Journal of Integrative Medicine</i> , 2015, 13, 380-390.	3.1	21
79	The prevention of behavioral consequences of idiopathic generalized epilepsy: Evidence from rodent models. <i>Neuroscience Letters</i> , 2011, 497, 177-184.	2.1	19
80	Effects of the Tranquillizer Diazepam and the Stimulant Methylphenidate on Alertness and Memory. <i>Neuropsychobiology</i> , 1997, 36, 42-48.	1.9	18
81	On the relationship between anticipatory behaviour in a Pavlovian paradigm and Pavlovian-to-Instrumental Transfer in rats (<i>Rattus norvegicus</i>). <i>Behavioural Brain Research</i> , 2004, 153, 397-408.	2.2	18
82	The role of ovarian steroid hormones in the regulation of basal and stress induced absence seizures. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , 2007, 104, 281-288.	2.5	18
83	Unilateral and Bilateral Cortical Resection: Effects on Spike-Wave Discharges in a Genetic Absence Epilepsy Model. <i>PLoS ONE</i> , 2015, 10, e0133594.	2.5	18
84	Neural correlates of sensory gating in the rat: decreased Fos induction in the lateral septum. <i>Brain Research Bulletin</i> , 2001, 54, 145-151.	3.0	17
85	Metabotropic glutamate receptors as drug targets for the treatment of absence epilepsy. <i>Current Opinion in Pharmacology</i> , 2018, 38, 43-50.	3.5	17
86	Can absence seizures be predicted by vigilance states?: Advanced analysis of sleep-wake states and spike-wave discharges' occurrence in rats. <i>Epilepsy and Behavior</i> , 2019, 96, 200-209.	1.7	17
87	The Brain Network in a Model of Thalamocortical Dysrhythmia. <i>Brain Connectivity</i> , 2019, 9, 273-284.	1.7	17
88	The δ Subunit and Absence Epilepsy: Beyond Calcium Channels?. <i>Current Neuropharmacology</i> , 2017, 15, 918-925.	2.9	17
89	Absence seizures during pregnancy in WAG/Rij rats. <i>Physiology and Behavior</i> , 2004, 81, 623-627.	2.1	15
90	Timing of high-frequency cortical stimulation in a genetic absence model. <i>Neuroscience</i> , 2016, 324, 191-201.	2.3	15

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91	Does arousal interfere with operant conditioning of spike-wave discharges in genetic epileptic rats?. <i>Epilepsy Research</i> , 2010, 90, 75-82.	1.6	14
92	Endocannabinoid system protects against cryptogenic seizures. <i>Pharmacological Reports</i> , 2011, 63, 165-168.	3.3	14
93	A network approach to investigate the bi-hemispheric synchrony in absence epilepsy. <i>Clinical Neurophysiology</i> , 2019, 130, 1611-1619.	1.5	14
94	Is There Such a Thing as "Generalized" Epilepsy?. <i>Advances in Experimental Medicine and Biology</i> , 2014, 813, 81-91.	1.6	14
95	Cholinergic stimulation of the nucleus basalis of Meynert and reticular thalamic nucleus affects spike-and-wave discharges in WAG/Rij rats. <i>Neuroscience Letters</i> , 2009, 463, 249-253.	2.1	13
96	Internal desynchronization facilitates seizures. <i>Epilepsia</i> , 2012, 53, 1511-1518.	5.1	13
97	Altered SWD stopping mechanism in WAG/Rij rats subchronically treated with the cannabinoid agonist R(+)-WIN55,212-2. <i>Epilepsy and Behavior</i> , 2020, 102, 106722.	1.7	13
98	Simulation of sleep spindles and spike and wave discharges using a novel method for the calculation of field potentials in rats. <i>Journal of Neuroscience Methods</i> , 2007, 164, 161-176.	2.5	12
99	Does antiepileptogenesis affects sleep in genetic epileptic rats?. <i>International Journal of Psychophysiology</i> , 2012, 85, 49-54.	1.0	11
100	The effects of lamotrigine and ethosuximide on seizure frequency, neuronal loss, and astrogliosis in a model of temporal-lobe epilepsy. <i>Brain Research</i> , 2019, 1712, 1-6.	2.2	11
101	Experimental Treatment Options in Absence Epilepsy. <i>Current Pharmaceutical Design</i> , 2018, 23, 5577-5592.	1.9	11
102	Pharmacological activation of mGlu5 receptors with the positive allosteric modulator VU0360172, modulates thalamic GABAergic transmission. <i>Neuropharmacology</i> , 2020, 178, 108240.	4.1	10
103	The role of hippocampal theta activity in sensory gating in the rat. <i>Physiology and Behavior</i> , 2001, 74, 257-266.	2.1	9
104	The effects of diazepam on sensory gating in healthy volunteers. <i>Neuroscience Letters</i> , 2003, 341, 65-68.	2.1	9
105	The <sc>MMPI</sc> in chronic psychiatric illness. <i>Scandinavian Journal of Psychology</i> , 2014, 55, 513-519.	1.5	9
106	Thalamo-Cortical and Thalamo-Thalamic Coupling During Sleep and Wakefulness in Rats. <i>Brain Connectivity</i> , 2022, 12, 650-659.	1.7	9
107	Increased P50 Gating but Intact Prepulse Inhibition in Borderline Personality Disorder. <i>Journal of Neuropsychiatry and Clinical Neurosciences</i> , 2008, 20, 348-356.	1.8	8
108	The anti-absence effect of mGlu5 receptor amplification with VU0360172 is maintained during and after antiepileptogenesis. <i>Pharmacology Biochemistry and Behavior</i> , 2016, 146-147, 50-59.	2.9	8

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109	H1 histamine receptor densities are increased in brain regions of rats with genetically generalized epilepsies. <i>Epilepsy Research</i> , 2016, 127, 135-140.	1.6	8
110	Alterations in the $\alpha 2$ ligand, thrombospondin $\alpha 1$, in a rat model of spontaneous absence epilepsy and in patients with idiopathic/genetic generalized epilepsies. <i>Epilepsia</i> , 2017, 58, 1993-2001.	5.1	8
111	Spike-Wave Discharges and Sleep-Wake States during Circadian Desynchronization: No Effects of Agomelatine upon Re-Entrainment. <i>Neuroscience</i> , 2019, 408, 327-338.	2.3	8
112	Immediate versus late effects of vigabatrin on spike and wave discharges. <i>Epilepsy Research</i> , 2020, 165, 106379.	1.6	8
113	Spatiotemporal mapping of interictal epileptiform discharges in human absence epilepsy: A MEG study. <i>Epilepsy Research</i> , 2016, 119, 67-76.	1.6	7
114	Cannabinoid antagonist SLV326 induces convulsive seizures and changes in the interictal EEG in rats. <i>PLoS ONE</i> , 2017, 12, e0165363.	2.5	7
115	The effect of haloperidol on maternal behavior in WAG/Rij rats and its consequences in the offspring. <i>Acta Neurobiologiae Experimentalis</i> , 2011, 71, 339-47.	0.7	6
116	The role of thalamic nuclei in genetic generalized epilepsies. <i>Epilepsy Research</i> , 2022, 182, 106918.	1.6	6
117	Neonatal exposure to AY-9944 increases typical spike and wave discharges in WAG/Rij and Wistar rats. <i>Epilepsy Research</i> , 2019, 157, 106184.	1.6	5
118	Brain-computer interface for the epileptic seizures prediction and prevention. , 2020, , .		5
119	Maternal behavior in a genetic animal model of absence epilepsy. <i>Acta Neurobiologiae Experimentalis</i> , 2008, 68, 502-8.	0.7	5
120	Early onset of age-related changes on neural processing in rats. <i>Physiology and Behavior</i> , 2011, 103, 134-143.	2.1	4
121	Sleep disorders in patients with depression or schizophrenia: A randomized controlled trial using acupuncture treatment. <i>European Journal of Integrative Medicine</i> , 2016, 8, 789-796.	1.7	4
122	On the Yin and Yang of spike and waves. <i>Journal of Physiology</i> , 2020, 598, 2279-2280.	2.9	4
123	The prefrontal cortex shows widespread decrease in H3 histamine receptor binding densities in rats with genetic generalized epilepsies. <i>Epilepsy Research</i> , 2022, 182, 106921.	1.6	4
124	The effects of methylphenidate and diazepam on the acoustic startle reflex in stand alone and prepulse trials in healthy volunteers. <i>Neuroscience Research Communications</i> , 2002, 31, 45-56.	0.2	3
125	Discrete-Trial SCP and GSR Training and the Interrelationship Between Central and Peripheral Arousal. <i>Journal of Neurotherapy</i> , 2010, 14, 217-228.	0.9	3
126	Group I metabotropic glutamate receptor-mediated long term depression is disrupted in the hippocampus of WAG/Rij rats modelling absence epilepsy. <i>Neuropharmacology</i> , 2021, 196, 108686.	4.1	3

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127	Differences in responses to propofol in elderly and young adult WISW rats. Neuroscience Research Communications, 1997, 21, 125-134.	0.2	2
128	A new method for automatic marking epileptic spike-wave discharges in local field potential signals. Proceedings of SPIE, 2015, , .	0.8	2
129	Evaluation of nonlinear properties of epileptic activity using largest Lyapunov exponent. Proceedings of SPIE, 2016, , .	0.8	2
130	Control of epileptic seizures in WAG/Rij rats by means of brain-computer interface. , 2018, , .		2
131	Effect of appetitive Pavlovian conditioning on the N150 of the amygdalar Auditory Evoked Potential in the rat. Brain Research, 2009, 1267, 57-64.	2.2	1
132	Imaging Neural Excitability and Networks in Genetic Absence Epilepsy Models. , 2019, , 181-192.		1
133	Equivalence of Traditional and Internet-Delivered Testing of Word Fluency Tasks. Jurnal Psikologi Undip, 2021, 20, 35-49.	0.3	1
134	The behavioral pharmacology of sleep. Handbook of Behavioral Neuroscience, 1993, 10, 575-602.	0.0	1
135	M. Steriade: Neuronal Substrates of Sleep and Epilepsy E. F. Pace-Schott, M. Solms, M. Blagrove and S. Harnad (eds): Sleep and Dreaming: Scientific Advances and Reconsiderations. Genes, Brain and Behavior, 2004, 3, 125-126.	2.2	0
136	Biomarkers bij burn-outpatiënten. Neuropraxis, 2010, 14, 165-173.	0.1	0
137	Photic Stimulation in Rats and What Does It Tell Us About Absence Epilepsy. , 2021, , 237-251.		0
138	Seizure prediction in genetic rat models of absence epilepsy: improved performance through multiple-site cortico-thalamic recordings combined with machine learning. ENeuro, 2021, , ENEURO.0160-21.2021.	1.9	0