

# RÃ¼diger KÃ¼hling

## List of Publications by Year in descending order

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181  
papers

5,840  
citations

101543

36  
h-index

95266

68  
g-index

195  
all docs

195  
docs citations

195  
times ranked

6284  
citing authors

#	ARTICLE	IF	CITATIONS
1	Deep brain stimulation for movement disorder treatment: exploring frequency-dependent efficacy in a computational network model. <i>Biological Cybernetics</i> , 2022, 116, 93-116.	1.3	8
2	Galvanotactic Migration of Glioblastoma and Brain Metastases Cells. <i>Life</i> , 2022, 12, 580.	2.4	6
3	Microbeam Irradiation of the Beating Rodent Heart: An Ex Vivo Study of Acute and Subacute Effects on Cardiac Function. <i>International Journal of Radiation Oncology Biology Physics</i> , 2022, 114, 143-152.	0.8	2
4	Deep brain stimulation by optimized stimulators in a phenotypic model of dystonia: Effects of different frequencies. <i>Neurobiology of Disease</i> , 2021, 147, 105163.	4.4	11
5	Correlation between Kir4.1 expression and barium-sensitive currents in rat and human glioma cell lines. <i>Neuroscience Letters</i> , 2021, 741, 135481.	2.1	5
6	Numerical Study on Electrode Design for Rodent Deep Brain Stimulation With Implantations Cranial to Targeted Nuclei. <i>Frontiers in Computational Neuroscience</i> , 2021, 15, 631188.	2.1	2
7	Neuronal Hyperexcitability in APPSWE/PS1dE9 Mouse Models of Alzheimer's Disease. <i>Journal of Alzheimer's Disease</i> , 2021, 81, 855-869.	2.6	14
8	Kv7 and Kir6 Channels Shape the Slow AHP in Mouse Dentate Gyrus Granule Cells and Control Burst-like Firing Behavior. <i>Neuroscience</i> , 2021, 467, 56-72.	2.3	2
9	Mechanisms of pallidal deep brain stimulation: Alteration of cortico-striatal synaptic communication in a dystonia animal model. <i>Neurobiology of Disease</i> , 2021, 154, 105341.	4.4	5
10	The software defined implantable modular platform (STELLA) for preclinical deep brain stimulation research in rodents. <i>Journal of Neural Engineering</i> , 2021, 18, 056032.	3.5	8
11	Perampanel attenuates epileptiform phenotype in C6 glioma. <i>Neuroscience Letters</i> , 2020, 715, 134629.	2.1	14
12	Disruption of the sodium-dependent citrate transporter SLC13A5 in mice causes alterations in brain citrate levels and neuronal network excitability in the hippocampus. <i>Neurobiology of Disease</i> , 2020, 143, 105018.	4.4	30
13	Perampanel Add-on to Standard Radiochemotherapy in vivo Promotes Neuroprotection in a Rodent F98 Glioma Model. <i>Frontiers in Neuroscience</i> , 2020, 14, 598266.	2.8	11
14	CK2 Inhibition Prior to Status Epilepticus Persistently Enhances KCa2 Function in CA1 Which Slows Down Disease Progression. <i>Frontiers in Cellular Neuroscience</i> , 2020, 14, 33.	3.7	5
15	OSS-DBS: Open-source simulation platform for deep brain stimulation with a comprehensive automated modeling. <i>PLoS Computational Biology</i> , 2020, 16, e1008023.	3.2	30
16	Distinct Effects of Stereotactically Injected Human Cerebrospinal Fluid Containing Glutamic Acid Decarboxylase Antibodies into the Hippocampus of Rats on the Development of Spontaneous Epileptic Activity. <i>Brain Sciences</i> , 2020, 10, 123.	2.3	3
17	Stereotactically Injected Kv1.2 and CASPR2 Antisera Cause Differential Effects on CA1 Synaptic and Cellular Excitability, but Both Enhance the Vulnerability to Pro-epileptic Conditions. <i>Frontiers in Synaptic Neuroscience</i> , 2020, 12, 13.	2.5	6
18	Healthspan pathway maps in <i>C. elegans</i> and humans highlight transcription, proliferation/biosynthesis and lipids. <i>Aging</i> , 2020, 12, 12534-12581.	3.1	12

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19	Towards biomarkers for outcomes after pancreatic ductal adenocarcinoma and ischaemic stroke, with focus on (co)-morbidity and ageing/cellular senescence (SASKit): protocol for a prospective cohort study. <i>BMJ Open</i> , 2020, 10, e039560.	1.9	5
20	Title is missing!. , 2020, 16, e1008023.		0
21	Title is missing!. , 2020, 16, e1008023.		0
22	Title is missing!. , 2020, 16, e1008023.		0
23	Title is missing!. , 2020, 16, e1008023.		0
24	Maternally Inherited Differences within Mitochondrial Complex I Control Murine Healthspan. <i>Genes</i> , 2019, 10, 532.	2.4	8
25	Translational perspectives: Interneurons start seizures. <i>Journal of Physiology</i> , 2019, 597, 5525-5526.	2.9	1
26	Repetitive Peripheral Magnetic Nerve Stimulation (rPMS) as Adjuvant Therapy Reduces Skeletal Muscle Reflex Activity. <i>Frontiers in Neurology</i> , 2019, 10, 930.	2.4	17
27	Novel Object Recognition in Rats With NMDAR Dysfunction in CA1 After Stereotactic Injection of Anti-NMDAR Encephalitis Cerebrospinal Fluid. <i>Frontiers in Neurology</i> , 2019, 10, 586.	2.4	26
28	AMPA receptor antagonist perampanel affects glioblastoma cell growth and glutamate release in vitro. <i>PLoS ONE</i> , 2019, 14, e0211644.	2.5	56
29	Human Osteoblast Migration in DC Electrical Fields Depends on Store Operated Ca <sup>2+</sup> -Release and Is Correlated to Upregulation of Stretch-Activated TRPM7 Channels. <i>Frontiers in Bioengineering and Biotechnology</i> , 2019, 7, 422.	4.1	19
30	Health and Aging: Unifying Concepts, Scores, Biomarkers and Pathways. , 2019, 10, 883.		56
31	Mitochondrial complex IV mutation increases reactive oxygen species production and reduces lifespan in aged mice. <i>Acta Physiologica</i> , 2019, 225, e13214.	3.8	25
32	Vascular Integrity and Signaling Determining Brain Development, Network Excitability, and Epileptogenesis. <i>Frontiers in Physiology</i> , 2019, 10, 1583.	2.8	23
33	Low-level mitochondrial heteroplasmy modulates DNA replication, glucose metabolism and lifespan in mice. <i>Scientific Reports</i> , 2018, 8, 5872.	3.3	26
34	Endothelial cell-derived GABA signaling modulates neuronal migration and postnatal behavior. <i>Cell Research</i> , 2018, 28, 221-248.	12.0	78
35	Bidirectional shift of group III metabotropic glutamate receptor-mediated synaptic depression in the epileptic hippocampus. <i>Epilepsy Research</i> , 2018, 139, 157-163.	1.6	12
36	Acute epileptiform activity induced by gabazine involves proteasomal rather than lysosomal degradation of KCa <sub>v</sub> 2.2 channels. <i>Neurobiology of Disease</i> , 2018, 112, 79-84.	4.4	4

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37	Oral administration of the casein kinase 2 inhibitor TBB leads to persistent KCa2.2 channel up-regulation in the epileptic CA1 area and cortex, but lacks anti-seizure efficacy in the pilocarpine epilepsy model. <i>Epilepsy Research</i> , 2018, 147, 42-50.	1.6	7
38	Hyperpolarization-Activated Cyclic Nucleotide-Gated Non-selective (HCN) Ion Channels Regulate Human and Murine Urinary Bladder Contractility. <i>Frontiers in Physiology</i> , 2018, 9, 753.	2.8	19
39	Differentially Altered NMDAR Dependent and Independent Long-Term Potentiation in the CA3 Subfield in a Model of Anti-NMDAR Encephalitis. <i>Frontiers in Synaptic Neuroscience</i> , 2018, 10, 26.	2.5	16
40	Functional Metaplasticity of Hippocampal Schaffer Collateral-CA1 Synapses Is Reversed in Chronically Epileptic Rats. <i>Neural Plasticity</i> , 2017, 2017, 1-8.	2.2	3
41	Brain Tumor-Related Epilepsy. , 2017, , 899-910.		0
42	Mortality is associated with inflammation, anemia, specific diseases and treatments, and molecular markers. <i>PLoS ONE</i> , 2017, 12, e0175909.	2.5	12
43	Mycophenolate mofetil prevents the delayed T cell response after pilocarpine-induced status epilepticus in mice. <i>PLoS ONE</i> , 2017, 12, e0187330.	2.5	10
44	Status Epilepticus Enhances Depotentiation after Fully Established LTP in an NMDAR-Dependent but GluN2B-Independent Manner. <i>Neural Plasticity</i> , 2016, 2016, 1-10.	2.2	12
45	Anti-GAD65 Containing Cerebrospinal Fluid Does not Alter GABAergic Transmission. <i>Frontiers in Cellular Neuroscience</i> , 2016, 10, 130.	3.7	17
46	Uncoupling protein 2 protects mice from aging. <i>Mitochondrion</i> , 2016, 30, 42-50.	3.4	17
47	Uncoupling protein 2 deficiency results in higher neutrophil counts and lower B-cell counts during aging in mice. <i>Experimental Hematology</i> , 2016, 44, 1085-1091.e2.	0.4	6
48	P2Y receptor-mediated transient relaxation of rat longitudinal ileum preparations involves phospholipase C activation, intracellular Ca <sup>2+</sup> release and SK channel activation. <i>Acta Pharmacologica Sinica</i> , 2016, 37, 617-628.	6.1	7
49	Potassium Channels in Epilepsy. <i>Cold Spring Harbor Perspectives in Medicine</i> , 2016, 6, a022871.	6.2	94
50	Specific imbalance of excitatory/inhibitory signaling establishes seizure onset pattern in temporal lobe epilepsy. <i>Journal of Neurophysiology</i> , 2016, 115, 3229-3237.	1.8	125
51	Living Long and Well: Prospects for a Personalized Approach to the Medicine of Ageing. <i>Gerontology</i> , 2016, 62, 409-416.	2.8	11
52	Deciphering hallmark processes of aging from interaction networks. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2016, 1860, 2706-2715.	2.4	11
53	Interplay between interictal spikes and behavioral seizures in young, but not aged pilocarpine-treated epileptic rats. <i>Epilepsy and Behavior</i> , 2016, 57, 90-94.	1.7	6
54	Hypersynchronous ictal onset in the perirhinal cortex results from dynamic weakening in inhibition. <i>Neurobiology of Disease</i> , 2016, 87, 1-10.	4.4	25

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55	Stereotactic injection of cerebrospinal fluid from anti-NMDA receptor encephalitis into rat dentate gyrus impairs NMDA receptor function. <i>Brain Research</i> , 2016, 1633, 10-18.	2.2	37
56	Animal models of tumour-associated epilepsy. <i>Journal of Neuroscience Methods</i> , 2016, 260, 109-117.	2.5	16
57	Polymorphisms of the murine mitochondrial ND4, CYTB and COX3 genes impact hematopoiesis during aging. <i>Oncotarget</i> , 2016, 7, 74460-74472.	1.8	10
58	Polymorphism in Murine mtATP8 Gene Correlates with Decreased Reactive Oxygen Species in Aging Hematopoietic Cells. <i>In Vivo</i> , 2016, 30, 751-760.	1.3	2
59	Loss of GABAergic control of corticostriatal LTP following status epilepticus. <i>Translational Brain Rhythmicity</i> , 2016, 1, .	0.3	0
60	Age-related decrease of adenosine-mediated relaxation in rat detrusor is a result of A2B receptor downregulation. <i>International Journal of Urology</i> , 2015, 22, 322-329.	1.0	6
61	Inverse relationship of Rho kinase and myosin-light chain kinase expression in the aging human detrusor smooth muscle. <i>BMC Urology</i> , 2015, 15, 104.	1.4	8
62	Reduced Adolescent-Age Spatial Learning Ability Associated with Elevated Juvenile-Age Superoxide Levels in Complex I Mouse Mutants. <i>PLoS ONE</i> , 2015, 10, e0123863.	2.5	8
63	A mutation in the NADH-dehydrogenase subunit 2 suppresses fibroblast aging. <i>Oncotarget</i> , 2015, 6, 8552-8566.	1.8	12
64	Prolonged seizures: what are the mechanisms that predispose or cease to be protective? A review of animal data. <i>Epileptic Disorders</i> , 2014, 16, 23-36.	1.3	7
65	Age-dependent contribution of Rho kinase in carbachol-induced contraction of human detrusor smooth muscle in vitro. <i>Acta Pharmacologica Sinica</i> , 2014, 35, 74-81.	6.1	13
66	In vivo treatment with the casein kinase 2 inhibitor 4,5,6,7-tetrabromotriazole augments the slow afterhyperpolarizing potential and prevents acute epileptiform activity. <i>Epilepsia</i> , 2014, 55, 175-183.	5.1	19
67	Inbred mouse strains reveal biomarkers that are pro-longevity, antilongevity or role switching. <i>Aging Cell</i> , 2014, 13, 729-738.	6.7	17
68	NMDA Receptor-Dependent Metaplasticity by High-Frequency Magnetic Stimulation. <i>Neural Plasticity</i> , 2014, 2014, 1-8.	2.2	10
69	Effects of oxygen insufflation during pilocarpine-induced status epilepticus on mortality, tissue damage and seizures. <i>Epilepsy Research</i> , 2014, 108, 90-97.	1.6	7
70	Systems Biology Approaches in Aging Research. <i>Interdisciplinary Topics in Gerontology</i> , 2014, 40, 155-176.	3.6	7
71	Limbic Networks and Epileptiform Synchronization. <i>International Review of Neurobiology</i> , 2014, 114, 63-87.	2.0	14
72	Role of striatal NMDA receptor subunits in a model of paroxysmal dystonia. <i>Experimental Neurology</i> , 2014, 261, 677-684.	4.1	15

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73	Attribute Exploration with Proper Premises and Incomplete Knowledge Applied to the Free Radical Theory of Ageing. Lecture Notes in Computer Science, 2014, , 268-283.	1.3	0
74	The problems facing epilepsy therapy. Neuropharmacology, 2013, 69, 1-2.	4.1	6
75	Does interictal synchronization influence ictogenesis?. Neuropharmacology, 2013, 69, 37-44.	4.1	52
76	Persistent changes of corticostriatal plasticity in dtsz mutant hamsters after age-dependent remission of dystonia. Neuroscience, 2013, 250, 60-69.	2.3	14
77	Enhanced NMDA receptor-dependent LTP in the epileptic CA1 area via upregulation of NR2B. Neurobiology of Disease, 2013, 54, 183-193.	4.4	64
78	How Thoughts Give Rise to Action - Conscious Motor Intention Increases the Excitability of Target-Specific Motor Circuits. PLoS ONE, 2013, 8, e83845.	2.5	16
79	Polymorphism nt7778G/T In Mitochondrial ATP8 Gene Promotes Protective Effect On Reactive Oxygen Species Level In Murine Hematopoietic Cells During Aging. Blood, 2013, 122, 1196-1196.	1.4	1
80	ZD7288 Enhances Long-Term Depression at Early Postnatal Medial Perforant Path-Granule Cell Synapses. Neural Plasticity, 2012, 2012, 1-9.	2.2	2
81	Upregulation of presynaptic mGluR2, but not mGluR3 in the epileptic medial perforant path. Neuropharmacology, 2012, 62, 1867-1873.	4.1	10
82	The afterhyperpolarizing potential following a train of action potentials is suppressed in an acute epilepsy model in the rat Cornu Ammonis 1 area. Neuroscience, 2012, 201, 288-296.	2.3	7
83	The 27-kDa heat shock protein (HSP27) is a reliable hippocampal marker of full development of pilocarpine-induced status epilepticus. Epilepsy Research, 2012, 98, 35-43.	1.6	15
84	Increased excitability and compromised long-term potentiation in the neocortex of NPC1 <sup>Δ</sup> /Δ <sup>+</sup> mice. Brain Research, 2012, 1444, 20-26.	2.2	4
85	Network excitability in a model of chronic temporal lobe epilepsy critically depends on SK channel-mediated AHP currents. Neurobiology of Disease, 2012, 45, 337-347.	4.4	25
86	Altered physiology and pharmacology in the corticostriatal system in a model of temporal lobe epilepsy. Epilepsia, 2011, 52, 151-157.	5.1	6
87	Seizure frequency in pilocarpine-treated rats is independent of circadian rhythm. Epilepsia, 2011, 52, e118-e122.	5.1	45
88	Positive shifts of the GABAA receptor reversal potential due to altered chloride homeostasis is widespread after status epilepticus. Epilepsia, 2011, 52, 1570-1578.	5.1	87
89	Network mechanisms for fast ripple activity in epileptic tissue. Epilepsy Research, 2011, 97, 318-323.	1.6	41
90	Decreased expression of myelin gene regulatory factor in Niemann-Pick type C 1 mouse. Metabolic Brain Disease, 2011, 26, 299-306.	2.9	25

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91	Basement membrane protein nidogen shapes hippocampal synaptic plasticity and excitability. <i>Hippocampus</i> , 2010, 20, 608-620.	1.9	65
92	Targeting of neural stem cells in the hippocampus of adult rats by custom-made Ad vectors. <i>Brain Structure and Function</i> , 2010, 215, 105-113.	2.3	8
93	Voltage-gated calcium channels in the etiopathogenesis and treatment of absence epilepsy. <i>Brain Research Reviews</i> , 2010, 62, 245-271.	9.0	47
94	Antiepileptic drugs abolish ictal but not interictal epileptiform discharges in vitro. <i>Epilepsia</i> , 2010, 51, 423-431.	5.1	72
95	Functional, metabolic, and synaptic changes after seizures as potential targets for antiepileptic therapy. <i>Epilepsy and Behavior</i> , 2010, 19, 105-113.	1.7	59
96	Epileptogenesis and Brain Tumors. , 2010, , 359-363.		0
97	What is the Source of the EEG?. <i>Clinical EEG and Neuroscience</i> , 2009, 40, 146-149.	1.7	114
98	HCN1 channels constrain DHPG-induced LTD at hippocampal Schaffer collateral-CA1 synapses. <i>Learning and Memory</i> , 2009, 16, 769-776.	1.3	12
99	High K <sup>+</sup> -induced contraction requires depolarization-induced Ca <sup>2+</sup> release from internal stores in rat gut smooth muscle. <i>Acta Pharmacologica Sinica</i> , 2009, 30, 1123-1131.	6.1	24
100	High-frequency magnetic stimulation induces long-term potentiation in rat hippocampal slices. <i>Neuroscience Letters</i> , 2009, 461, 150-154.	2.1	59
101	Dopamine induces contraction in the proximal, but relaxation in the distal rat isolated small intestine. <i>Neuroscience Letters</i> , 2009, 465, 21-26.	2.1	24
102	GABAA receptor inhibition does not affect mGluR-dependent LTD at hippocampal Schaffer collateral-CA1 synapses. <i>Neuroscience Letters</i> , 2009, 467, 20-25.	2.1	7
103	Increasing Extracellular Potassium Results in Subthalamic Neuron Activity Resembling That Seen in a 6-Hydroxydopamine Lesion. <i>Journal of Neurophysiology</i> , 2008, 99, 2902-2915.	1.8	12
104	MICHAEL FORUM REPORT. <i>Epilepsia</i> , 2007, 48, 403-406.	5.1	0
105	Electrophysiology in ischemic neocortical brain slices: species differences vs. influences of anaesthesia and preparation. <i>European Journal of Neuroscience</i> , 2006, 23, 1795-1800.	2.6	9
106	Methodological approaches to exploring epileptic disorders in the human brain in vitro. <i>Journal of Neuroscience Methods</i> , 2006, 155, 1-19.	2.5	61
107	Epileptiform activity preferentially arises outside tumor invasion zone in glioma xenotransplants. <i>Neurobiology of Disease</i> , 2006, 22, 64-75.	4.4	76
108	Nidogen and Nidogen-Associated Basement Membrane Proteins and Neuronal Plasticity. <i>Neurodegenerative Diseases</i> , 2006, 3, 56-61.	1.4	18

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109	Studying Epilepsy in the Human Brain In Vitro. , 2006, , 89-101.		0
110	The Impact of Astrocytic Gap Junctional Coupling on Potassium Buffering in the Hippocampus. Journal of Neuroscience, 2006, 26, 5438-5447.	3.6	511
111	Intrinsic excitability, synaptic potentials, and short-term plasticity in human epileptic neocortex. Journal of Neuroscience Research, 2005, 80, 715-726.	2.9	32
112	Establishment and Characterization of a Mouse Embryonic Heart Slice Preparation. Cellular Physiology and Biochemistry, 2005, 16, 127-132.	1.6	61
113	Phase-locking characteristics of limbic P3 responses in hippocampal sclerosis. NeuroImage, 2005, 24, 980-989.	4.2	20
114	Optical imaging of epileptiform activity in experimentally induced cortical malformations. Experimental Neurology, 2005, 192, 288-298.	4.1	14
115	Cellular and molecular mechanisms of epilepsy in the human brain. Progress in Neurobiology, 2005, 77, 166-200.	5.7	168
116	GABAA receptor-dependent synchronization leads to ictogenesis in the human dysplastic cortex. Brain, 2004, 127, 1626-1640.	7.6	150
117	A new neurophysiological/neuropathological ex vivo model localizes the origin of glioma-associated epileptogenesis in the invasion area. Acta Neuropathologica, 2004, 107, 1-7.	7.7	30
118	Characterization of a fast transient outward current in neocortical neurons from epilepsy patients. Journal of Neuroscience Research, 2004, 75, 807-816.	2.9	10
119	Muscarinic acetylcholine receptor stimulation induces expression of the activity-regulated cytoskeleton-associated gene (ARC). Molecular Brain Research, 2004, 121, 131-136.	2.3	48
120	RNA editing (R/G site) and flip-flop splicing of the AMPA receptor subunit GluR2 in nervous tissue of epilepsy patients. Neurobiology of Disease, 2004, 15, 371-379.	4.4	67
121	Increased excitability in cortico-striatal synaptic pathway in a model of paroxysmal dystonia. Neurobiology of Disease, 2004, 16, 236-245.	4.4	45
122	Reduction of human neocortical and guinea pig CA1-neuron A-type currents by organic calcium channel blockers. Neuroscience Letters, 2004, 368, 57-62.	2.1	2
123	Spontane Netzwerkaktivität in chronisch epileptischem Hirngewebe des Menschen. Zeitschrift Fur Epileptologie, 2003, 16, 229-234.	0.7	0
124	Bioelectrical behaviour of hypoxic human neocortical tissue under the influence of nimodipine and dimethyl sulfoxide. Brain Research, 2003, 959, 199-205.	2.2	1
125	Differential sensitivity to induction of spreading depression by partial disinhibition in chronically epileptic human and rat as compared to native rat neocortical tissue. Brain Research, 2003, 975, 129-134.	2.2	33
126	Stimulus-induced patterns of bioelectric activity in human neocortical tissue recorded by a voltage sensitive dye. Neuroscience, 2003, 121, 587-604.	2.3	18



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127	NEUROSCIENCE: GABA Becomes Exciting. <i>Science</i> , 2002, 298, 1350-1351.	12.6	69
128	Sodium Currents in Striatal Neurons from Dystonic dtsz Hamsters: Altered Response to Lamotrigine. <i>Neurobiology of Disease</i> , 2002, 9, 258-268.	4.4	11
129	Quinine suppresses extracellular potassium transients and ictal epileptiform activity without decreasing neuronal excitability in vitro. <i>Neuroscience</i> , 2002, 115, 251-261.	2.3	41
130	Network and pharmacological mechanisms leading to epileptiform synchronization in the limbic system in vitro. <i>Progress in Neurobiology</i> , 2002, 68, 167-207.	5.7	402
131	Effects of methohexital on bioelectrical reactions in guinea pig hippocampal slices during hypoxia. <i>Neuroscience Letters</i> , 2002, 329, 227-231.	2.1	3
132	Pre- rather than Co-application of Vigabatrin Increases the Efficacy of Tiagabine in Hippocampal Slices. <i>Epilepsia</i> , 2002, 43, 1455-1461.	5.1	5
133	Effect of Levetiracetam on Epileptiform Discharges in Human Neocortical Slices. <i>Epilepsia</i> , 2002, 43, 1480-1487.	5.1	32
134	Voltage-gated Sodium Channels in Epilepsy. <i>Epilepsia</i> , 2002, 43, 1278-1295.	5.1	109
135	Spatio-temporal patterns of neuronal activity: analysis of optical imaging data using geometric shape matching. <i>Journal of Neuroscience Methods</i> , 2002, 114, 17-23.	2.5	10
136	Prolonged epileptiform bursting induced by 0-Mg <sup>2+</sup> in rat hippocampal slices depends on gap junctional coupling. <i>Neuroscience</i> , 2001, 105, 579-587.	2.3	147
137	Effects of retigabine on rhythmic synchronous activity of human neocortical slices. <i>Epilepsy Research</i> , 2001, 44, 155-165.	1.6	34
138	Lowering the extracellular potassium concentration elicits epileptic activity in neocortical tissue of epileptic patients. <i>European Journal of Neuroscience</i> , 2001, 13, 639-640.	2.6	11
139	Spreading depression in human neocortical slices. <i>Brain Research</i> , 2001, 906, 74-83.	2.2	116
140	Lowering of the potassium concentration induces epileptiform activity in guinea-pig hippocampal slices. <i>Brain Research</i> , 2001, 908, 130-139.	2.2	14
141	Ictal Epileptiform Activity Is Facilitated by Hippocampal GABA <sub>A</sub> Receptor-Mediated Oscillations. <i>Journal of Neuroscience</i> , 2000, 20, 6820-6829.	3.6	168
142	Cutting of living hippocampal slices by a highly pressurised water jet (macromingotome). <i>Journal of Neuroscience Methods</i> , 2000, 102, 1-9.	2.5	5
143	Acute protective effect of nimodipine and dimethyl sulfoxide against hypoxic and ischemic damage in brain slices. <i>Brain Research</i> , 2000, 887, 316-322.	2.2	21
144	Vigabatrin reduces epileptiform activity in brain slices from pharmaco-resistant epilepsy patients. <i>European Journal of Pharmacology</i> , 2000, 401, 167-172.	3.5	11

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145	Optical Monitoring of Neuronal Activity During Spontaneous Sharp Waves in Chronically Epileptic Human Neocortical Tissue. <i>Journal of Neurophysiology</i> , 2000, 84, 2161-2165.	1.8	36
146	Differential Involvement of L-Type Calcium Channels in Epileptogenesis of Rat Hippocampal Slices during Ontogenesis. <i>Neurobiology of Disease</i> , 2000, 7, 471-482.	4.4	15
147	Effects of nifedipine on rhythmic synchronous activity of human neocortical slices. <i>Neuroscience</i> , 2000, 100, 445-452.	2.3	22
148	Alternative splicing of the NMDAR1 glutamate receptor subunit in human temporal lobe epilepsy. <i>Molecular Brain Research</i> , 2000, 76, 377-384.	2.3	14
149	NiCl <sub>2</sub> and amiloride induce spreading depression in guinea pig hippocampal slices. <i>Cephalalgia</i> , 2000, 20, 740-747.	3.9	2
150	Neuroprotection by 21-aminosteroids: insights from latencies of anoxic terminal negativity in hippocampus slices of guinea pig. <i>Neurological Research</i> , 1999, 21, 305-308.	1.3	4
151	Dimethyl sulfoxide increases latency of anoxic terminal negativity in hippocampal slices of guinea pig in vitro. <i>Neuroscience Letters</i> , 1999, 261, 1-4.	2.1	21
152	Current-source-density profiles associated with sharp waves in human epileptic neocortical tissue. <i>Neuroscience</i> , 1999, 94, 1039-1050.	2.3	41
153	Ionotropic glutamate and GABA receptors in human epileptic neocortical tissue: quantitative in vitro receptor autoradiography. <i>Neuroscience</i> , 1999, 94, 1051-1061.	2.3	92
154	Contribution of L-type calcium channels to epileptiform activity in hippocampal and neocortical slices of guinea-pigs. <i>Neuroscience</i> , 1999, 95, 63-72.	2.3	23
155	Gabapentin potentiation of the antiepileptic efficacy of vigabatrin in an in vitro model of epilepsy. <i>British Journal of Pharmacology</i> , 1998, 124, 370-376.	5.4	21
156	Neuroprotection of mild hypothermia: differential effects. <i>Brain Research</i> , 1998, 786, 267-269.	2.2	13
157	Flat and steep terminal negativity in the DC-potential after deprivation of oxygen and glucose in human neocortical slices. <i>Brain Research</i> , 1998, 794, 28-34.	2.2	7
158	Spatio-temporal distribution of epileptiform activity in slices from human neocortex: recordings with voltage-sensitive dyes. <i>Epilepsy Research</i> , 1998, 32, 224-232.	1.6	14
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