

Dimitri M Kullmann

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246
papers

13,882
citations

65
h-index

111
g-index

333
ext. papers

15,844
ext. citations

9.6
avg, IF

6.7
L-index

#	Paper	IF	Citations
246	N-methyl-D-aspartate antibody encephalitis: temporal progression of clinical and paraclinical observations in a predominantly non-paraneoplastic disorder of both sexes. <i>Brain</i> , 2010 , 133, 1655-67	11.2	738
245	Tonically active GABA A receptors: modulating gain and maintaining the tone. <i>Trends in Neurosciences</i> , 2004 , 27, 262-9	13.3	604
244	Extrasynaptic glutamate diffusion in the hippocampus: ultrastructural constraints, uptake, and receptor activation. <i>Journal of Neuroscience</i> , 1998 , 18, 3158-70	6.6	355
243	Extrasynaptic glutamate spillover in the hippocampus: dependence on temperature and the role of active glutamate uptake. <i>Neuron</i> , 1997 , 18, 281-93	13.9	346
242	GABA uptake regulates cortical excitability via cell type-specific tonic inhibition. <i>Nature Neuroscience</i> , 2003 , 6, 484-90	25.5	336
241	Human epilepsy associated with dysfunction of the brain P/Q-type calcium channel. <i>Lancet, The</i> , 2001 , 358, 801-7	40	305
240	Amplitude fluctuations of dual-component EPSCs in hippocampal pyramidal cells: implications for long-term potentiation. <i>Neuron</i> , 1994 , 12, 1111-20	13.9	301
239	Extrasynaptic glutamate spillover in the hippocampus: evidence and implications. <i>Trends in Neurosciences</i> , 1998 , 21, 8-14	13.3	278
238	A novel mutation in the human voltage-gated potassium channel gene (Kv1.1) associates with episodic ataxia type 1 and sometimes with partial epilepsy. <i>Brain</i> , 1999 , 122 (Pt 5), 817-25	11.2	257
237	Long-term potentiation is associated with increases in quantal content and quantal amplitude. <i>Nature</i> , 1992 , 357, 240-4	50.4	243
236	LTP of AMPA and NMDA receptor-mediated signals: evidence for presynaptic expression and extrasynaptic glutamate spill-over. <i>Neuron</i> , 1996 , 17, 461-74	13.9	236
235	Ca ²⁺ entry via postsynaptic voltage-sensitive Ca ²⁺ channels can transiently potentiate excitatory synaptic transmission in the hippocampus. <i>Neuron</i> , 1992 , 9, 1175-83	13.9	235
234	Long-term synaptic plasticity in hippocampal interneurons. <i>Nature Reviews Neuroscience</i> , 2007 , 8, 687-99	13.5	227
233	Oscillatory multiplexing of population codes for selective communication in the mammalian brain. <i>Nature Reviews Neuroscience</i> , 2014 , 15, 111-22	13.5	222
232	Multiple and plastic receptors mediate tonic GABA _A receptor currents in the hippocampus. <i>Journal of Neuroscience</i> , 2005 , 25, 10016-24	6.6	192
231	Anti-Hebbian long-term potentiation in the hippocampal feedback inhibitory circuit. <i>Science</i> , 2007 , 315, 1262-6	33.3	185
230	Optogenetic and potassium channel gene therapy in a rodent model of focal neocortical epilepsy. <i>Science Translational Medicine</i> , 2012 , 4, 161ra152	17.5	179

229	Presynaptic, extrasynaptic and axonal GABAA receptors in the CNS: where and why?. <i>Progress in Biophysics and Molecular Biology</i> , 2005 , 87, 33-46	4.7	178
228	Oscillations and filtering networks support flexible routing of information. <i>Neuron</i> , 2010 , 67, 308-20	13.9	174
227	Activation of AMPA, kainate, and metabotropic receptors at hippocampal mossy fiber synapses: role of glutamate diffusion. <i>Neuron</i> , 1998 , 21, 561-70	13.9	171
226	Dysfunction of the brain calcium channel CaV2.1 in absence epilepsy and episodic ataxia. <i>Brain</i> , 2004 , 127, 2682-92	11.2	161
225	Monosynaptic GABAergic signaling from dentate to CA3 with a pharmacological and physiological profile typical of mossy fiber synapses. <i>Neuron</i> , 2001 , 29, 703-15	13.9	161
224	Plasticity of inhibition. <i>Neuron</i> , 2012 , 75, 951-62	13.9	159
223	NR2B-containing receptors mediate cross talk among hippocampal synapses. <i>Journal of Neuroscience</i> , 2004 , 24, 4767-77	6.6	155
222	Modulation of GABAergic signaling among interneurons by metabotropic glutamate receptors. <i>Neuron</i> , 2000 , 25, 663-72	13.9	153
221	Geometric and viscous components of the tortuosity of the extracellular space in the brain. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1998 , 95, 8975-80	11.5	152
220	Hebbian LTP in feed-forward inhibitory interneurons and the temporal fidelity of input discrimination. <i>Nature Neuroscience</i> , 2005 , 8, 916-24	25.5	139
219	GABAA receptors at hippocampal mossy fibers. <i>Neuron</i> , 2003 , 39, 961-73	13.9	138
218	The site of expression of NMDA receptor-dependent LTP: new fuel for an old fire. <i>Neuron</i> , 1995 , 15, 997-1002	13.9	136
217	Voltage sensor charge loss accounts for most cases of hypokalemic periodic paralysis. <i>Neurology</i> , 2009 , 72, 1544-7	6.5	133
216	PRRT2 gene mutations: from paroxysmal dyskinesia to episodic ataxia and hemiplegic migraine. <i>Neurology</i> , 2012 , 79, 2115-21	6.5	132
215	The neuronal channelopathies. <i>Brain</i> , 2002 , 125, 1177-95	11.2	129
214	A genetically encoded fluorescent sensor for in vivo imaging of GABA. <i>Nature Methods</i> , 2019 , 16, 763-770	11.6	128
213	Synaptically released glutamate reduces gamma-aminobutyric acid (GABA)ergic inhibition in the hippocampus via kainate receptors. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1999 , 96, 9932-7	11.5	109
212	Kainate receptor-dependent axonal depolarization and action potential initiation in interneurons. <i>Nature Neuroscience</i> , 2001 , 4, 718-23	25.5	107

211	Mutations in SLC12A5 in epilepsy of infancy with migrating focal seizures. <i>Nature Communications</i> , 2015 , 6, 8038	17.4	104
210	Chemical-genetic attenuation of focal neocortical seizures. <i>Nature Communications</i> , 2014 , 5, 3847	17.4	98
209	Hippocampal synapses: do they talk to their neighbours?. <i>Trends in Neurosciences</i> , 1999 , 22, 382-8	13.3	98
208	The clinical and genetic heterogeneity of paroxysmal dyskinesias. <i>Brain</i> , 2015 , 138, 3567-80	11.2	96
207	Outwardly rectifying tonically active GABAA receptors in pyramidal cells modulate neuronal offset, not gain. <i>Journal of Neuroscience</i> , 2009 , 29, 15341-50	6.6	96
206	Differential triggering of spontaneous glutamate release by P/Q-, N- and R-type Ca ²⁺ channels. <i>Nature Neuroscience</i> , 2013 , 16, 1754-1763	25.5	95
205	Chloride channel myotonia: exon 8 hot-spot for dominant-negative interactions. <i>Brain</i> , 2007 , 130, 3265-74	11.2	93
204	Progressive Motor Neuron Pathology and the Role of Astrocytes in a Human Stem Cell Model of VCP-Related ALS. <i>Cell Reports</i> , 2017 , 19, 1739-1749	10.6	91
203	Neurological channelopathies. <i>Annual Review of Neuroscience</i> , 2010 , 33, 151-72	17	90
202	Nanoscale-targeted patch-clamp recordings of functional presynaptic ion channels. <i>Neuron</i> , 2013 , 79, 1067-77	13.9	85
201	Presynaptic GABAA receptors enhance transmission and LTP induction at hippocampal mossy fiber synapses. <i>Nature Neuroscience</i> , 2010 , 13, 431-8	25.5	85
200	Episodic ataxia type 1: a neuronal potassium channelopathy. <i>Neurotherapeutics</i> , 2007 , 4, 258-66	6.4	84
199	Clinical relevance of serum antibodies to extracellular N-methyl-D-aspartate receptor epitopes. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2015 , 86, 708-13	5.5	81
198	Endogenous zinc inhibits GABA(A) receptors in a hippocampal pathway. <i>Journal of Neurophysiology</i> , 2004 , 91, 1091-6	3.2	80
197	Role of ionotropic glutamate receptors in long-term potentiation in rat hippocampal CA1 oriens-lacunosum moleculare interneurons. <i>Journal of Neuroscience</i> , 2009 , 29, 939-50	6.6	78
196	Anti-N-methyl-D-aspartate receptor antibodies: a potentially treatable cause of encephalitis in the intensive care unit. <i>Critical Care Medicine</i> , 2010 , 38, 679-82	1.4	78
195	AMPA receptor GluA2 subunit defects are a cause of neurodevelopmental disorders. <i>Nature Communications</i> , 2019 , 10, 3094	17.4	76
194	Oscillatory dynamics in the hippocampus support dentate gyrus CA3 coupling. <i>Nature Neuroscience</i> , 2012 , 15, 763-8	25.5	75

193	Presynaptic kainate receptors in the hippocampus: slowly emerging from obscurity. <i>Neuron</i> , 2001 , 32, 561-4	13.9	75
192	Neurological channelopathies: new insights into disease mechanisms and ion channel function. <i>Journal of Physiology</i> , 2010 , 588, 1823-7	3.9	74
191	dCas9-Based Scn1a Gene Activation Restores Inhibitory Interneuron Excitability and Attenuates Seizures in Dravet Syndrome Mice. <i>Molecular Therapy</i> , 2020 , 28, 235-253	11.7	74
190	Nerve excitability studies characterize Kv1.1 fast potassium channel dysfunction in patients with episodic ataxia type 1. <i>Brain</i> , 2010 , 133, 3530-40	11.2	73
189	Interneuron networks in the hippocampus. <i>Current Opinion in Neurobiology</i> , 2011 , 21, 709-16	7.6	72
188	Genetic and functional characterisation of the P/Q calcium channel in episodic ataxia with epilepsy. <i>Journal of Physiology</i> , 2010 , 588, 1905-13	3.9	70
187	GABA and GABAA receptors at hippocampal mossy fibre synapses. <i>European Journal of Neuroscience</i> , 2003 , 18, 931-41	3.5	69
186	Autoimmune synaptopathies. <i>Nature Reviews Neuroscience</i> , 2016 , 17, 103-17	13.5	68
185	Andersen-Tawil syndrome: new potassium channel mutations and possible phenotypic variation. <i>Neurology</i> , 2005 , 65, 1083-9	6.5	68
184	LTP and LTD in cortical GABAergic interneurons: emerging rules and roles. <i>Neuropharmacology</i> , 2011 , 60, 712-9	5.5	67
183	Spillover and synaptic cross talk mediated by glutamate and GABA in the mammalian brain. <i>Progress in Brain Research</i> , 2000 , 125, 339-51	2.9	67
182	Reduction by baclofen of monosynaptic EPSPs in lumbosacral motoneurons of the anaesthetized cat. <i>Journal of Physiology</i> , 1989 , 416, 539-56	3.9	67
181	Target-cell specificity of kainate autoreceptor and Ca ²⁺ -store-dependent short-term plasticity at hippocampal mossy fiber synapses. <i>Journal of Neuroscience</i> , 2008 , 28, 13139-49	6.6	65
180	Cholinergic axons modulate GABAergic signaling among hippocampal interneurons via postsynaptic alpha 7 nicotinic receptors. <i>Journal of Neuroscience</i> , 2007 , 27, 5683-93	6.6	65
179	Neurological phenotype and synaptic function in mice lacking the CaV1.3 alpha subunit of neuronal L-type voltage-dependent Ca ²⁺ channels. <i>Neuroscience</i> , 2003 , 120, 435-42	3.9	65
178	The role of mammalian ionotropic receptors in synaptic plasticity: LTP, LTD and epilepsy. <i>Cellular and Molecular Life Sciences</i> , 2000 , 57, 1551-61	10.3	62
177	Knockout of NMDA-receptors from parvalbumin interneurons sensitizes to schizophrenia-related deficits induced by MK-801. <i>Translational Psychiatry</i> , 2016 , 6, e778	8.6	61
176	Electric fields due to synaptic currents sharpen excitatory transmission. <i>Science</i> , 2008 , 319, 1845-9	33.3	59

175	Long-term potentiation and dual-component quantal signaling in the dentate gyrus. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1998 , 95, 4702-7	11.5	58
174	Neurological disorders caused by inherited ion-channel mutations. <i>Lancet Neurology, The</i> , 2002 , 1, 157-66	4.1	57
173	Endogenous neurotrophin-3 regulates short-term plasticity at lateral perforant path-granule cell synapses. <i>Journal of Neuroscience</i> , 1998 , 18, 8730-9	6.6	57
172	Variable K(+) channel subunit dysfunction in inherited mutations of KCNA1. <i>Journal of Physiology</i> , 2002 , 538, 5-23	3.9	55
171	Independent regulation of basal neurotransmitter release efficacy by variable Ca ²⁺ influx and bouton size at small central synapses. <i>PLoS Biology</i> , 2012 , 10, e1001396	9.7	54
170	Efficient "communication through coherence" requires oscillations structured to minimize interference between signals. <i>PLoS Computational Biology</i> , 2012 , 8, e1002760	5	54
169	Spike-timing dependent plasticity in inhibitory circuits. <i>Frontiers in Synaptic Neuroscience</i> , 2010 , 2, 8	3.5	53
168	Extracellular glutamate diffusion determines the occupancy of glutamate receptors at CA1 synapses in the hippocampus. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 1999 , 354, 395-402	5.8	53
167	Genetic neurological channelopathies: molecular genetics and clinical phenotypes. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2016 , 87, 37-48	5.5	52
166	Gene therapy in epilepsy-is it time for clinical trials?. <i>Nature Reviews Neurology</i> , 2014 , 10, 300-4	15	52
165	Cortical inhibition, pH and cell excitability in epilepsy: what are optimal targets for antiepileptic interventions?. <i>Journal of Physiology</i> , 2013 , 591, 765-74	3.9	52
164	NMDA receptor-dependent long-term potentiation in mouse hippocampal interneurons shows a unique dependence on Ca(2+)/calmodulin-dependent kinases. <i>Journal of Physiology</i> , 2007 , 584, 885-94	3.9	52
163	Application of long single-stranded DNA donors in genome editing: generation and validation of mouse mutants. <i>BMC Biology</i> , 2018 , 16, 70	7.3	50
162	Plasticity of GABA(B) receptor-mediated heterosynaptic interactions at mossy fibers after status epilepticus. <i>Journal of Neuroscience</i> , 2003 , 23, 11382-91	6.6	50
161	Dysfunction of NaV1.4, a skeletal muscle voltage-gated sodium channel, in sudden infant death syndrome: a case-control study. <i>Lancet, The</i> , 2018 , 391, 1483-1492	4.0	49
160	Analog modulation of mossy fiber transmission is uncoupled from changes in presynaptic Ca ²⁺ . <i>Journal of Neuroscience</i> , 2008 , 28, 7765-73	6.6	49
159	Mutations in the Neuronal Vesicular SNARE VAMP2 Affect Synaptic Membrane Fusion and Impair Human Neurodevelopment. <i>American Journal of Human Genetics</i> , 2019 , 104, 721-730	11	48
158	Large scale calcium channel gene rearrangements in episodic ataxia and hemiplegic migraine: implications for diagnostic testing. <i>Journal of Medical Genetics</i> , 2009 , 46, 786-91	5.8	48

157	Epileptogenesis is associated with enhanced glutamatergic transmission in the perforant path. <i>Journal of Neurophysiology</i> , 2006 , 95, 1213-20	3.2	46
156	Late-onset episodic ataxia type 2 due to an in-frame insertion in CACNA1A. <i>Neurology</i> , 2005 , 65, 944-6	6.5	45
155	Episodic ataxia type 1 mutations in the KCNA1 gene impair the fast inactivation properties of the human potassium channels Kv1.4-1.1/Kvbeta1.1 and Kv1.4-1.1/Kvbeta1.2. <i>European Journal of Neuroscience</i> , 2006 , 24, 3073-83	3.5	45
154	Action potential broadening in a presynaptic channelopathy. <i>Nature Communications</i> , 2016 , 7, 12102	17.4	42
153	Applications of the expectation-maximization algorithm to quantal analysis of postsynaptic potentials. <i>Journal of Neuroscience Methods</i> , 1989 , 30, 231-45	3	41
152	Reduction by general anaesthetics of group Ia excitatory postsynaptic potentials and currents in the cat spinal cord. <i>Journal of Physiology</i> , 1989 , 412, 277-96	3.9	41
151	Epilepsy Gene Therapy Using an Engineered Potassium Channel. <i>Journal of Neuroscience</i> , 2019 , 39, 3159-69	16.9	41
150	Clinical, pathological and functional characterization of riboflavin-responsive neuropathy. <i>Brain</i> , 2017 , 140, 2820-2837	11.2	40
149	In vivo CRISPRa decreases seizures and rescues cognitive deficits in a rodent model of epilepsy. <i>Brain</i> , 2020 , 143, 891-905	11.2	40
148	Outcome of ventilatory support for acute respiratory failure in motor neurone disease. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2002 , 72, 752-6	5.5	39
147	Focal cortical seizures start as standing waves and propagate respecting homotopic connectivity. <i>Nature Communications</i> , 2017 , 8, 217	17.4	38
146	I(h)-mediated depolarization enhances the temporal precision of neuronal integration. <i>Nature Communications</i> , 2011 , 2, 199	17.4	38
145	Group I mGluR agonist-evoked long-term potentiation in hippocampal oriens interneurons. <i>Journal of Neuroscience</i> , 2011 , 31, 5777-81	6.6	38
144	KCC2 overexpression prevents the paradoxical seizure-promoting action of somatic inhibition. <i>Nature Communications</i> , 2019 , 10, 1225	17.4	37
143	Thymectomy: role in the treatment of myasthenia gravis. <i>Journal of Neurology</i> , 2013 , 260, 1798-801	5.5	36
142	Clinical, genetic, neurophysiological and functional study of new mutations in episodic ataxia type 1. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2013 , 84, 1107-12	5.5	36
141	Myasthenia and related disorders of the neuromuscular junction. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2010 , 81, 850-7	5.5	35
140	Roles of distinct glutamate receptors in induction of anti-Hebbian long-term potentiation. <i>Journal of Physiology</i> , 2008 , 586, 1481-6	3.9	35

139	Biochemical autoregulatory gene therapy for focal epilepsy. <i>Nature Medicine</i> , 2018 , 24, 1324-1329	50.5	34
138	Clinical neurophysiology of the episodic ataxias: insights into ion channel dysfunction in vivo. <i>Clinical Neurophysiology</i> , 2009 , 120, 1768-76	4.3	33
137	Glutamatergic modulation of GABAergic signaling among hippocampal interneurons: novel mechanisms regulating hippocampal excitability. <i>Epilepsia</i> , 2002 , 43 Suppl 5, 174-8	6.4	33
136	Nongenetic factors influence severity of episodic ataxia type 1 in monozygotic twins. <i>Neurology</i> , 2010 , 75, 367-72	6.5	32
135	Alternative splicing modulates inactivation of type 1 voltage-gated sodium channels by toggling an amino acid in the first S3-S4 linker. <i>Journal of Biological Chemistry</i> , 2011 , 286, 36700-8	5.4	32
134	Silent synapses: what are they telling us about long-term potentiation?. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2003 , 358, 727-33	5.8	31
133	Optogenetic approaches to treat epilepsy. <i>Journal of Neuroscience Methods</i> , 2016 , 260, 215-20	3	30
132	Glycine receptor autoantibodies disrupt inhibitory neurotransmission. <i>Brain</i> , 2019 , 142, 3398-3410	11.2	30
131	NMDA receptor-dependent function and plasticity in inhibitory circuits. <i>Neuropharmacology</i> , 2013 , 74, 23-31	5.5	30
130	GABAergic Interneurons in Seizures: Investigating Causality With Optogenetics. <i>Neuroscientist</i> , 2019 , 25, 344-358	7.6	30
129	Olanzapine: A potent agonist at the hM4D(Gi) DREADD amenable to clinical translation of chemogenetics. <i>Science Advances</i> , 2019 , 5, eaaw1567	14.3	29
128	Heterogeneity and specificity of presynaptic Ca ²⁺ current modulation by mGluRs at individual hippocampal synapses. <i>Cerebral Cortex</i> , 2004 , 14, 748-58	5.1	29
127	Hippocampal-prefrontal coherence mediates working memory and selective attention at distinct frequency bands and provides a causal link between schizophrenia and its risk gene GRIA1. <i>Translational Psychiatry</i> , 2019 , 9, 142	8.6	27
126	Episodic ataxia type 1 mutations differentially affect neuronal excitability and transmitter release. <i>DMM Disease Models and Mechanisms</i> , 2009 , 2, 612-9	4.1	27
125	Optogenetic and chemogenetic therapies for epilepsy. <i>Neuropharmacology</i> , 2020 , 168, 107751	5.5	27
124	Short- and long-term depression at glutamatergic synapses on hippocampal interneurons by group I mGluR activation. <i>Neuropharmacology</i> , 2011 , 60, 748-56	5.5	25
123	Non-genomic effects of sex hormones on CLC-1 may contribute to gender differences in myotonia congenita. <i>Neuromuscular Disorders</i> , 2008 , 18, 869-72	2.9	25
122	Functional characterization of compound heterozygosity for GlyR α 1 mutations in the startle disease hyperekplexia. <i>European Journal of Neuroscience</i> , 2002 , 16, 186-96	3.5	25

121	Do mossy fibers release GABA?. <i>Epilepsia</i> , 2002 , 43 Suppl 5, 196-202	6.4	24
120	Designer receptor technology for the treatment of epilepsy. <i>EBioMedicine</i> , 2019 , 43, 641-649	8.8	23
119	What's wrong with the amygdala in temporal lobe epilepsy?. <i>Brain</i> , 2011 , 134, 2800-1	11.2	23
118	Premature stop codons in a facilitating EF-hand splice variant of CaV2.1 cause episodic ataxia type 2. <i>Neurobiology of Disease</i> , 2008 , 32, 10-5	7.5	23
117	Relative picrotoxin insensitivity distinguishes ionotropic GABA receptor-mediated IPSCs in hippocampal interneurons. <i>Neuropharmacology</i> , 2002 , 43, 726-36	5.5	23
116	Functional characterization of a novel mutation in KCNA1 in episodic ataxia type 1 associated with epilepsy. <i>Annals of the New York Academy of Sciences</i> , 1999 , 868, 442-6	6.5	23
115	Mutations in Membrin/GOSR2 Reveal Stringent Secretory Pathway Demands of Dendritic Growth and Synaptic Integrity. <i>Cell Reports</i> , 2017 , 21, 97-109	10.6	22
114	Pathogenic potential of antibodies to the GABA receptor. <i>Epilepsia Open</i> , 2017 , 2, 355-359	4	22
113	Monosynaptic EPSPs in cat lumbosacral motoneurons from group Ia afferents and fibres descending in the spinal cord. <i>Journal of Physiology</i> , 1989 , 412, 43-63	3.9	21
112	Induction of Anti-Hebbian LTP in CA1 Stratum Oriens Interneurons: Interactions between Group I Metabotropic Glutamate Receptors and M1 Muscarinic Receptors. <i>Journal of Neuroscience</i> , 2015 , 35, 13542-54	6.6	20
111	The inherited episodic ataxias: how well do we understand the disease mechanisms?. <i>Neuroscientist</i> , 2001 , 7, 80-8	7.6	20
110	Slow channel congenital myasthenic syndrome responsive to a combination of fluoxetine and salbutamol. <i>Muscle and Nerve</i> , 2013 , 47, 279-82	3.4	19
109	Long-term potentiation in hippocampal oriens interneurons: postsynaptic induction, presynaptic expression and evaluation of candidate retrograde factors. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2014 , 369, 20130133	5.8	19
108	PDXK mutations cause polyneuropathy responsive to pyridoxal 5'-phosphate supplementation. <i>Annals of Neurology</i> , 2019 , 86, 225-240	9.4	18
107	Personalized translational epilepsy research - Novel approaches and future perspectives: Part I: Clinical and network analysis approaches. <i>Epilepsy and Behavior</i> , 2017 , 76, 13-18	3.2	18
106	Kv1.1 channelopathy abolishes presynaptic spike width modulation by subthreshold somatic depolarization. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 2395-2400	11.5	17
105	Imaging pathological activities of human brain tissue in organotypic culture. <i>Journal of Neuroscience Methods</i> , 2018 , 298, 33-44	3	17
104	A tortuous and viscous route to understanding diffusion in the brain. <i>Trends in Neurosciences</i> , 1998 , 21, 469-70	13.3	17

103	Admission to neurological intensive care: who, when, and why?. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2003 , 74 Suppl 3, iii2-9	5.5	17
102	Novel therapies for epilepsy in the pipeline. <i>Epilepsy and Behavior</i> , 2019 , 97, 282-290	3.2	16
101	The Mother of All Battles 20 years on: is LTP expressed pre- or postsynaptically?. <i>Journal of Physiology</i> , 2012 , 590, 2213-6	3.9	16
100	Dendritic NMDA receptors in parvalbumin neurons enable strong and stable neuronal assemblies. <i>ELife</i> , 2019 , 8,	8.9	16
99	T-type calcium channels contribute to NMDA receptor independent synaptic plasticity in hippocampal regular-spiking oriens-alveus interneurons. <i>Journal of Physiology</i> , 2017 , 595, 3449-3458	3.9	15
98	Myasthenia gravis--treatment of acute severe exacerbations in the intensive care unit results in a favourable long-term prognosis. <i>European Journal of Neurology</i> , 2014 , 21, 171-3	6	15
97	Ionotropic receptors at hippocampal mossy fibers: roles in axonal excitability, synaptic transmission, and plasticity. <i>Frontiers in Neural Circuits</i> , 2012 , 6, 112	3.5	15
96	Quantal analysis using maximum entropy noise deconvolution. <i>Journal of Neuroscience Methods</i> , 1992 , 44, 47-57	3	15
95	Loss of disrupts synaptic AMPA receptor function, and results in neurodevelopmental, motor, cognitive and electrophysiological abnormalities. <i>DMM Disease Models and Mechanisms</i> , 2019 , 12,	4.1	14
94	Expanding the Phenotype and Genetic Defects Associated with the Gene. <i>Movement Disorders Clinical Practice</i> , 2015 , 2, 271-273	2.2	14
93	In vivo loss of slow potassium channel activity in individuals with benign familial neonatal epilepsy in remission. <i>Brain</i> , 2012 , 135, 3144-52	11.2	14
92	Synapsin- and actin-dependent frequency enhancement in mouse hippocampal mossy fiber synapses. <i>Cerebral Cortex</i> , 2009 , 19, 511-23	5.1	14
91	Comment on "Role of NMDA receptor subtypes in governing the direction of hippocampal synaptic plasticity". <i>Science</i> , 2004 , 305, 1912; author reply	33.3	14
90	Biallelic mutations in neurofascin cause neurodevelopmental impairment and peripheral demyelination. <i>Brain</i> , 2019 , 142, 2948-2964	11.2	13
89	Spider toxin inhibits gating pore currents underlying periodic paralysis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 4495-4500	11.5	13
88	Genetics of epilepsy. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2002 , 73 Suppl 2, i132-5	5.5	13
87	Optogenetic induction of the schizophrenia-related endophenotype of ventral hippocampal hyperactivity causes rodent correlates of positive and cognitive symptoms. <i>Scientific Reports</i> , 2018 , 8, 12871	4.9	13
86	Myasthenia gravis and neuromyelitis optica: A causal link. <i>Multiple Sclerosis and Related Disorders</i> , 2013 , 2, 233-7	4	12

85	Lambert-Eaton syndrome IgG inhibits transmitter release via P/Q Ca ²⁺ channels. <i>Neurology</i> , 2015 , 84, 575-9	6.5	12
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