

Ruth M Empson

List of Publications by Year in descending order

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64
papers

3,383
citations

147801

31
h-index

155660

55
g-index

67
all docs

67
docs citations

67
times ranked

4463
citing authors

#	ARTICLE	IF	CITATIONS
1	An On-Demand Drug Delivery System for Control of Epileptiform Seizures. <i>Pharmaceutics</i> , 2022, 14, 468.	4.5	5
2	Essential Tremor – A Cerebellar Driven Disorder?. <i>Neuroscience</i> , 2021, 462, 262-273.	2.3	24
3	Cholinergic modulation of sensory processing in awake mouse cortex. <i>Scientific Reports</i> , 2021, 11, 17525.	3.3	7
4	Survival strategies for mouse cerebellar Purkinje neurons lacking PMCA2. <i>Neuroscience Letters</i> , 2018, 663, 25-28.	2.1	0
5	Transcriptome Profiling of Layer 5 Intratelencephalic Projection Neurons From the Mature Mouse Motor Cortex. <i>Frontiers in Molecular Neuroscience</i> , 2018, 11, 410.	2.9	8
6	Motor and Cerebellar Architectural Abnormalities during the Early Progression of Ataxia in a Mouse Model of SCA1 and How Early Prevention Leads to a Better Outcome Later in Life. <i>Frontiers in Cellular Neuroscience</i> , 2017, 11, 292.	3.7	12
7	RNA-Sequencing Analysis Reveals a Regulatory Role for Transcription Factor Fezf2 in the Mature Motor Cortex. <i>Frontiers in Molecular Neuroscience</i> , 2017, 10, 283.	2.9	16
8	<i>Fezf2</i> expression in layer 5 projection neurons of mature mouse motor cortex. <i>Journal of Comparative Neurology</i> , 2016, 524, 829-845.	1.6	32
9	Prolonged Type 1 Metabotropic Glutamate Receptor Dependent Synaptic Signaling Contributes to Spino-Cerebellar Ataxia Type 1. <i>Journal of Neuroscience</i> , 2016, 36, 4910-4916.	3.6	47
10	Voltage imaging to understand connections and functions of neuronal circuits. <i>Journal of Neurophysiology</i> , 2016, 116, 135-152.	1.8	80
11	Are Type 1 metabotropic glutamate receptors a viable therapeutic target for the treatment of cerebellar ataxia?. <i>Journal of Physiology</i> , 2016, 594, 4643-4652.	2.9	19
12	Transgenic Mice for Intersectional Targeting of Neural Sensors and Effectors with High Specificity and Performance. <i>Neuron</i> , 2015, 85, 942-958.	8.1	992
13	Chimeric rabies SADB19-VSVg-pseudotyped lentiviral vectors mediate long-range retrograde transduction from the mouse spinal cord. <i>Gene Therapy</i> , 2015, 22, 357-364.	4.5	16
14	Validation of optical voltage reporting by the genetically encoded voltage indicator VSFP-Butterfly from cortical layer 2/3 pyramidal neurons in mouse brain slices. <i>Physiological Reports</i> , 2015, 3, e12468.	1.7	15
15	Combined Immunocytochemistry and Live Imaging of Fluorescent Protein Expressing Neurons in Mouse Brain. <i>NeuroMethods</i> , 2015, , 357-373.	0.3	0
16	Functional contributions of glutamate transporters at the parallel fibre to Purkinje neuron synapse – relevance for the progression of cerebellar ataxia. <i>Cerebellum and Ataxias</i> , 2014, 1, 3.	1.9	12
17	Expression of the Developmental Transcription Factor <i>Fezf2</i> Identifies a Distinct Subpopulation of Layer 5 Intratelencephalic-Projection Neurons in Mature Mouse Motor Cortex. <i>Journal of Neuroscience</i> , 2014, 34, 4303-4308.	3.6	35
18	Functional contributions of the plasma membrane calcium ATPase and the sodium – calcium exchanger at mouse parallel fibre to Purkinje neuron synapses. <i>Pflügers Archiv European Journal of Physiology</i> , 2013, 465, 319-331.	2.8	13

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19	Enhanced Synaptic Inhibition in the Cerebellar Cortex of the Ataxic PMCA2 ^{-/-} Knockout Mouse. <i>Cerebellum</i> , 2013, 12, 667-675.	2.5	9
20	Transient reversal of the sodium/calcium exchanger boosts presynaptic calcium and synaptic transmission at a cerebellar synapse. <i>Journal of Neurophysiology</i> , 2013, 109, 1669-1680.	1.8	17
21	The Contribution of the Sodium-Calcium Exchanger (NCX) and Plasma Membrane Ca ²⁺ ATPase (PMCA) to Cerebellar Synapse Function. <i>Advances in Experimental Medicine and Biology</i> , 2013, 961, 251-263.	1.6	8
22	Diversity of layer 5 projection neurons in the mouse motor cortex. <i>Frontiers in Cellular Neuroscience</i> , 2013, 7, 174.	3.7	145
23	Functional Integration of Calcium Regulatory Mechanisms at Purkinje Neuron Synapses. <i>Cerebellum</i> , 2012, 11, 640-650.	2.5	13
24	Amyloid- β^2 Acts as a Regulator of Neurotransmitter Release Disrupting the Interaction between Synaptophysin and VAMP2. <i>PLoS ONE</i> , 2012, 7, e43201.	2.5	91
25	Reduced expression of the Ca ²⁺ transporter protein PMCA2 slows Ca ²⁺ dynamics in mouse cerebellar Purkinje neurones and alters the precision of motor coordination. <i>Journal of Physiology</i> , 2010, 588, 907-922.	2.9	35
26	Assessment of the Contribution of the Plasma Membrane Calcium ATPase, PMCA, Calcium Transporter to Synapse Function Using Patch Clamp Electrophysiology and Fast Calcium Imaging. <i>Methods in Molecular Biology</i> , 2010, 637, 343-360.	0.9	3
27	Contribution of plasma membrane Ca ²⁺ ATPase to cerebellar synapse function. <i>World Journal of Biological Chemistry</i> , 2010, 1, 95.	4.3	11
28	Molecular interactions of the plasma membrane calcium ATPase 2 at pre- and post-synaptic sites in rat cerebellum. <i>Neuroscience</i> , 2009, 162, 383-395.	2.3	39
29	Reduced expression of the α -fast α -calcium transporter PMCA2a during homeostatic plasticity. <i>Molecular and Cellular Neurosciences</i> , 2009, 41, 364-372.	2.2	5
30	Plasma Membrane Ca ²⁺ ATPase 2 Contributes to Short-Term Synapse Plasticity at the Parallel Fiber to Purkinje Neuron Synapse. <i>Journal of Neuroscience</i> , 2007, 27, 3753-3758.	3.6	51
31	Presynaptic plasma membrane Ca ²⁺ ATPase isoform 2a regulates excitatory synaptic transmission in rat hippocampal CA3. <i>Journal of Physiology</i> , 2007, 579, 85-99.	2.9	50
32	Network stability through homeostatic scaling of excitatory and inhibitory synapses following inactivity in CA3 of rat organotypic hippocampal slice cultures. <i>Molecular and Cellular Neurosciences</i> , 2006, 31, 805-816.	2.2	30
33	The cell adhesion molecule neuroligin-1 inhibits hippocampal long-term potentiation via a mitogen-activated protein kinase p38-dependent reduction in surface expression of GluR1-containing glutamate receptors. <i>Journal of Neurochemistry</i> , 2006, 99, 850-860.	3.9	49
34	Comparison of neuroligin and synaptic marker protein expression in acute and cultured organotypic hippocampal slices from rat. <i>Developmental Brain Research</i> , 2004, 150, 1-7.	1.7	25
35	Expression of plasma membrane Ca ²⁺ ATPase family members and associated synaptic proteins in acute and cultured organotypic hippocampal slices from rat. <i>Developmental Brain Research</i> , 2004, 152, 129-136.	1.7	37
36	Adenosine acting via A1 receptors, controls the transition to status epilepticus-like behaviour in an in vitro model of epilepsy. <i>Neuropharmacology</i> , 2004, 47, 427-437.	4.1	65

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37	Pentobarbitone modulates calcium transients in axons and synaptic boutons of hippocampal CA1 neurons. <i>British Journal of Pharmacology</i> , 2003, 140, 971-979.	5.4	30
38	The NO Pathway Acts Late during the Fertilization Response in Sea Urchin Eggs. <i>Journal of Biological Chemistry</i> , 2003, 278, 12247-12254.	3.4	67
39	Ca ²⁺ entry through I-type Ca ²⁺ channels helps terminate epileptiform activity by activation of a Ca ²⁺ dependent afterhyperpolarisation in hippocampal CA3.. <i>Neuroscience</i> , 2001, 102, 297-306.	2.3	50
40	Chlormethiazole inhibits epileptiform activity by potentiating GABAA receptor function. <i>Brain Research</i> , 2000, 884, 31-34.	2.2	7
41	Modulation of \hat{I}^3 -aminobutyric acid responses in the rat optic nerve. <i>European Journal of Pharmacology</i> , 2000, 401, 339-342.	3.5	1
42	Functional Phenotype in Transgenic Mice Expressing Mutant Human Presenilin-1. <i>Neurobiology of Disease</i> , 2000, 7, 119-126.	4.4	68
43	Evidence of a role for cyclic ADP-ribose in long-term synaptic depression in hippocampus. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1999, 96, 4061-4066.	7.1	93
44	Potent depression of stimulus evoked field potential responses in the medial entorhinal cortex by serotonin. <i>British Journal of Pharmacology</i> , 1999, 128, 248-254.	5.4	24
45	Serotonin reduces synaptic excitation in the superficial medial entorhinal cortex of the rat via a presynaptic mechanism. <i>Journal of Physiology</i> , 1998, 508, 119-129.	2.9	51
46	Comparison of the effects of serotonin in the hippocampus and the entorhinal cortex. <i>Molecular Neurobiology</i> , 1998, 17, 59-72.	4.0	31
47	Serotonin Reduces Polysynaptic Inhibition via 5-HT _{1A} Receptors in the Superficial Entorhinal Cortex. <i>Journal of Neurophysiology</i> , 1998, 80, 1116-1121.	1.8	21
48	7-Deaza-8-bromo-cyclic ADP-ribose, the First Membrane-permeant, Hydrolysis-resistant Cyclic ADP-ribose Antagonist. <i>Journal of Biological Chemistry</i> , 1997, 272, 16358-16363.	3.4	73
49	Cyclic ADP-ribose Enhances Coupling between Voltage-gated Ca ²⁺ Entry and Intracellular Ca ²⁺ Release. <i>Journal of Biological Chemistry</i> , 1997, 272, 20967-20970.	3.4	56
50	Serotonin blocks different patterns of low Mg ²⁺ -induced epileptiform activity in rat entorhinal cortex, but not hippocampus. <i>Neuroscience</i> , 1997, 76, 449-458.	2.3	35
51	Morphological and electrophysiological characterization of layer III cells of the medial entorhinal cortex of the rat. <i>Neuroscience</i> , 1997, 77, 629-648.	2.3	98
52	Frequency-Dependent Information Flow From the Entorhinal Cortex to the Hippocampus. <i>Journal of Neurophysiology</i> , 1997, 78, 3444-3449.	1.8	65
53	Effects of serotonin on synaptic and intrinsic properties of rat subicular neurons in vitro. <i>Brain Research</i> , 1997, 773, 217-222.	2.2	8
54	Electrophysiological properties of rat subicular neurons in vitro. <i>Neuroscience Letters</i> , 1996, 220, 41-44.	2.1	35

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55	Nicotinamide inhibits cyclic ADP-ribose-mediated calcium signalling in sea urchin eggs. <i>Biochemical Journal</i> , 1996, 319, 613-617.	3.7	88
56	Unique Inactivation Properties of NAADP-sensitive Ca ²⁺ Release. <i>Journal of Biological Chemistry</i> , 1996, 271, 11599-11602.	3.4	153
57	Enzymatically-mediated uranium accumulation and uranium recovery using a <i>Citrobacter</i> sp. Immobilised as a biofilm within a plug-flow reactor. <i>Journal of Chemical Technology and Biotechnology</i> , 1995, 63, 1-16.	3.2	55
58	Perforant path connections to area CA1 are predominantly inhibitory in the rat hippocampal-entorhinal cortex combined slice preparation. <i>Hippocampus</i> , 1995, 5, 104-107.	1.9	49
59	Serotonin and 8-OH-DPAT reduce excitatory transmission in rat hippocampal area CA1 via reduction in presumed presynaptic Ca ²⁺ entry. <i>Brain Research</i> , 1995, 701, 249-254.	2.2	65
60	Electrophysiology and morphology of a new type of cell within layer II of the rat lateral entorhinal cortex in vitro. <i>Neuroscience Letters</i> , 1995, 193, 149-152.	2.1	7
61	Serotonin reduces synaptic excitation of principal cells in the superficial layers of rat hippocampal-entorhinal cortex combined slices. <i>Neuroscience Letters</i> , 1995, 190, 37-40.	2.1	31
62	Injection of tetanus toxin into the neocortex elicits persistent epileptiform activity but only transient impairment of GABA release. <i>Neuroscience</i> , 1993, 57, 235-239.	2.3	56
63	Synaptic inhibition in primary and secondary chronic epileptic foci induced by intrahippocampal tetanus toxin in the rat.. <i>Journal of Physiology</i> , 1993, 465, 595-614.	2.9	45
64	A novel kinetic method for the evaluation of biomass supports of surface area inestimable directly, using a uranium-accumulating <i>Citrobacter</i> sp. immobilized within a plug flow reactor. <i>Biotechnology Letters</i> , 1988, 2, 265-270.	0.5	5