

# A R Gardner-Medwin

## List of Publications by Citations

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25  
papers

2,374  
citations

15  
h-index

27  
g-index

27  
ext. papers

2,452  
ext. citations

6.1  
avg, IF

4.53  
L-index

#	Paper	IF	Citations
25	Long-lasting potentiation of synaptic transmission in the dentate area of the unanaesthetized rabbit following stimulation of the perforant path. <i>Journal of Physiology</i> , <b>1973</b> , 232, 357-74	3.9	1080
24	Analysis of potassium dynamics in mammalian brain tissue. <i>Journal of Physiology</i> , <b>1983</b> , 335, 393-426	3.9	235
23	Diffusion from an iontophoretic point source in the brain: role of tortuosity and volume fraction. <i>Brain Research</i> , <b>1979</b> , 169, 580-4	3.7	141
22	A study of the mechanisms by which potassium moves through brain tissue in the rat. <i>Journal of Physiology</i> , <b>1983</b> , 335, 353-74	3.9	122
21	Changes of extracellular potassium activity induced by electric current through brain tissue in the rat. <i>Journal of Physiology</i> , <b>1983</b> , 335, 375-92	3.9	111
20	Clearance of extracellular potassium: evidence for spatial buffering by glial cells in the retina of the drone. <i>Brain Research</i> , <b>1981</b> , 209, 452-7	3.7	98
19	Possible roles of vertebrate neuroglia in potassium dynamics, spreading depression and migraine. <i>Journal of Experimental Biology</i> , <b>1981</b> , 95, 111-27	3	93
18	Possible roles of vertebrate neuroglia in potassium dynamics, spreading depression and migraine. <i>Journal of Experimental Biology</i> , <b>1981</b> , 95, 111-127	3	92
17	The recall of events through the learning of associations between their parts. <i>Proceedings of the Royal Society of London Series B, Containing Papers of A Biological Character</i> , <b>1976</b> , 194, 375-402		83
16	An extreme supernormal period in cerebellar parallel fibres. <i>Journal of Physiology</i> , <b>1972</b> , 222, 357-71	3.9	70
15	Magnetic resonance imaging of propagating waves of spreading depression in the anaesthetised rat. <i>Journal of Cerebral Blood Flow and Metabolism</i> , <b>1994</b> , 14, 7-11	7.3	66
14	The effect of synaptic activation on the extracellular potassium concentration in the hippocampal dentate area, in vitro. <i>Brain Research</i> , <b>1976</b> , 112, 183-7	3.7	37
13	Magnetic fields associated with spreading depression in anaesthetised rabbits. <i>Brain Research</i> , <b>1991</b> , 540, 153-8	3.7	35
12	Apparent diffusion coefficient and MR relaxation during osmotic manipulation in isolated turtle cerebellum. <i>Magnetic Resonance in Medicine</i> , <b>2000</b> , 44, 427-32	4.4	34
11	A new framework for assessment of potassium-buffering mechanisms. <i>Annals of the New York Academy of Sciences</i> , <b>1986</b> , 481, 287-302	6.5	30
10	The migration of potassium produced by electric current through brain tissue [proceedings]. <i>Journal of Physiology</i> , <b>1977</b> , 269, 32P-33P	3.9	9
9	The mechanism of potassium dispersal in brain tissue [proceedings]. <i>Journal of Physiology</i> , <b>1979</b> , 293, 37P-38P	3.9	7

8	The effects of carbon dioxide, oxygen and pH on spreading depression in the isolated chick retina. <i>Brain Research</i> , <b>1983</b> , 288, 229-33	3.7	6
7	Movement of Potassium into Glial Cells in the Retina of the Drone, <i>Apis mellifera</i> , During Photostimulation <b>1981</b> , 345-349		6
6	Measurements of extracellular potassium and calcium concentration during passage of current across the surface of the brain [proceedings]. <i>Journal of Physiology</i> , <b>1978</b> , 275, 66P-67P	3.9	3
5	The amplitude and time course of extracellular potassium concentration changes during potassium flux through brain tissue [proceedings]. <i>Journal of Physiology</i> , <b>1978</b> , 284, 38P-39P	3.9	3
4	The Role of Cells in the Dispersal of Brain Extracellular Potassium <b>1981</b> , 339-343		2
3	Magnetic and Impedance Measurements for the Detection of Spreading Depression at a Distance <b>1992</b> , 63-74		1
2	Magnetic Observation of Spreading Cortical Depression in Anaesthetized Rabbits <b>1989</b> , 323-326		1
1	The Initiation of Action Potentials in Hippocampal Granule Cells <b>1976</b> , 218-222		