Stuart G Cull-Candy

List of Publications by Year in Descending Order

59	6,338	35	66
papers	citations	h-index	g-index
66	**6,928**	**14.9**	**5.74**
ext. papers	ext. citations	avg, IF	L-index

#	Paper	IF	Citations
59	Glutamate Receptor Auxiliary Subunits and Interacting Protein Partners in the Cerebellum **2022**, 929-955		
58	Ca -permeable AMPA receptors and their auxiliary subunits in synaptic plasticity and disease. *Journal of Physiology*, **2021**, 599, 2655-2671	3.9	4
57	Single-channel mechanisms underlying the function, diversity and plasticity of AMPA receptors. *Neuropharmacology*, **2021**, 198, 108781	5.5	0
56	Homomeric GluA2(R) AMPA receptors can conduct when desensitized. *Nature Communications*, **2019**, 10, 4312	17.4	8
55	Altered Cerebellar Short-Term Plasticity but No Change in Postsynaptic AMPA-Type Glutamate Receptors in a Mouse Model of Juvenile Batten Disease. *ENeuro*, **2018**, 5,	3.9	3
54	Structural and Functional Architecture of AMPA-Type Glutamate Receptors and Their Auxiliary Proteins. *Neuron*, **2017**, 94, 713-730	13.9	171
53	TARP □2 Is Required for Inflammation-Associated AMPA Receptor Plasticity within Lamina II of the Spinal Cord Dorsal Horn. *Journal of Neuroscience*, **2017**, 37, 6007-6020	6.6	16
52	Dual Effects of TARP □2 on Glutamate Efficacy Can Account for AMPA Receptor Autoinactivation. *Cell Reports*, **2017**, 20, 1123-1135	10.6	17
51	GABAergic regulation of cerebellar NG2 cell development is altered in perinatal white matter injury. *Nature Neuroscience*, **2015**, 18, 674-82	25.5	123
50	Transmembrane AMPAR regulatory protein □2 is required for the modulation of GABA release by presynaptic AMPARs. *Journal of Neuroscience*, **2015**, 35, 4203-14	6.6	13
49	The First 50 Years of Molecular Pharmacology. *Molecular Pharmacology*, **2015**, 88, 139-40	4.3	2
48	Acid-sensing ion channel 1a drives AMPA receptor plasticity following ischaemia and acidosis in hippocampal CA1 neurons. *Journal of Physiology*, **2015**, 593, 4373-86	3.9	25
47	Auxiliary Subunit GSG1L Acts to Suppress Calcium-Permeable AMPA Receptor Function. *Journal of Neuroscience*, **2015**, 35, 16171-9	6.6	39
46	Mapping the interaction sites between AMPA receptors and TARPs reveals a role for the receptor N-terminal domain in channel gating. *Cell Reports*, **2014**, 9, 728-40	10.6	47
45	Molecular mechanisms contributing to TARP regulation of channel conductance and polyamine block of calcium-permeable AMPA receptors. *Journal of Neuroscience*, **2014**, 34, 11673-83	6.6	35
44	A role of TARPs in the expression and plasticity of calcium-permeable AMPARs: evidence from cerebellar neurons and glia. *Neuropharmacology*, **2013**, 74, 76-85	5.5	20
43	TARP □7 selectively enhances synaptic expression of calcium-permeable AMPARs. *Nature Neuroscience*, **2013**, 16, 1266-74	25.5	39

42	Glutamate Receptor Auxiliary Subunits and Interacting Protein Partners in the Cerebellum **2013**, 853-879		1
41	Channel properties reveal differential expression of TARPed and TARPless AMPARs in stargazer neurons. *Nature Neuroscience*, **2012**, 15, 853-61	25.5	46
40	TARP-associated AMPA receptors display an increased maximum channel conductance and multiple kinetically distinct open states. *Journal of Physiology*, **2012**, 590, 5723-38	3.9	32
39	Cornichons modify channel properties of recombinant and glial AMPA receptors. *Journal of Neuroscience*, **2012**, 32, 9796-804	6.6	64
38	Bidirectional plasticity of calcium-permeable AMPA receptors in oligodendrocyte lineage cells. *Nature Neuroscience*, **2011**, 14, 1430-8	25.5	84
37	Probing TARP modulation of AMPA receptor conductance with polyamine toxins. *Journal of Neuroscience*, **2011**, 31, 7511-20	6.6	51
36	Desensitization and models of receptor-channel activation. *Journal of Physiology*, **2010**, 588, 1395-7	3.9	6
35	Lithium acts as a potentiator of AMPAR currents in hippocampal CA1 cells by selectively increasing channel open probability. *Journal of Physiology*, **2010**, 588, 3933-41	3.9	11
34	Neuroscience. AMPA receptors--another twist?. *Science*, **2010**, 327, 1463-5	33.3	10
33	Selective regulation of long-form calcium-permeable AMPA receptors by an atypical TARP, gamma-5. *Nature Neuroscience*, **2009**, 12, 277-85	25.5	87
32	Synaptic mGluR activation drives plasticity of calcium-permeable AMPA receptors. *Nature Neuroscience*, **2009**, 12, 593-601	25.5	66
31	Climbing-fibre activation of NMDA receptors in Purkinje cells of adult mice. *Journal of Physiology*, **2007**, 585, 91-101	3.9	69
30	Stargazin attenuates intracellular polyamine block of calcium-permeable AMPA receptors. *Nature Neuroscience*, **2007**, 10, 1260-7	25.5	151
29	NMDA Receptors **2007**,		6
28	Influence of agonist concentration on AMPA and kainate channels in CA1 pyramidal cells in rat hippocampal slices. *Journal of Physiology*, **2006**, 573, 371-94	3.9	29
27	Subunit interaction with PICK and GRIP controls Ca2+ permeability of AMPARs at cerebellar synapses. *Nature Neuroscience*, **2005**, 8, 768-75	25.5	145
26	Changes in synaptic structure underlie the developmental speeding of AMPA receptor-mediated EPSCs. *Nature Neuroscience*, **2005**, 8, 1310-8	25.5	95
25	Role of distinct NMDA receptor subtypes at central synapses. *Science Signaling*, **2004**, 2004, re16	8.8	486

24	NR2B and NR2D subunits coassemble in cerebellar Golgi cells to form a distinct NMDA receptor subtype restricted to extrasynaptic sites. *Journal of Neuroscience*, **2003**, 23, 4958-66	6.6	118
23	The density of AMPA receptors activated by a transmitter quantum at the climbing fibre-Purkinje cell synapse in immature rats. *Journal of Physiology*, **2003**, 549, 75-92	3.9	56
22	Activity-dependent change in AMPA receptor properties in cerebellar stellate cells. *Journal of Neuroscience*, **2002**, 22, 3881-9	6.6	99
21	Activity-dependent recruitment of extrasynaptic NMDA receptor activation at an AMPA receptor-only synapse. *Journal of Neuroscience*, **2002**, 22, 4428-36	6.6	170
20	Adaptive regulation of neuronal excitability by a voltage-independent potassium conductance. *Nature*, **2001**, 409, 88-92	50.4	480
19	Synaptic activity at calcium-permeable AMPA receptors induces a switch in receptor subtype. *Nature*, **2000**, 405, 454-8	50.4	381
18	Identification of subunits contributing to synaptic and extrasynaptic NMDA receptors in Golgi cells of the rat cerebellum. *Journal of Physiology*, **2000**, 524 Pt 1, 147-62	3.9	81
17	Slow deactivation kinetics of NMDA receptors containing NR1 and NR2D subunits in rat cerebellar Purkinje cells. *Journal of Physiology*, **2000**, 525 Pt 2, 299-305	3.9	76
16	Single-channel properties of synaptic and extrasynaptic GABAA receptors suggest differential targeting of receptor subtypes. *Journal of Neuroscience*, **1999**, 19, 2960-73	6.6	211
15	NMDA receptor diversity in the cerebellum: identification of subunits contributing to functional receptors. *Neuropharmacology*, **1998**, 37, 1369-80	5.5	72
14	A direct comparison of the single-channel properties of synaptic and extrasynaptic NMDA receptors. *Journal of Neuroscience*, **1997**, 17, 107-16	6.6	88
13	Single-channel properties of recombinant AMPA receptors depend on RNA editing, splice variation, and subunit composition. *Journal of Neuroscience*, **1997**, 17, 58-69	6.6	383
12	Functional correlation of NMDA receptor epsilon subunits expression with the properties of single-channel and synaptic currents in the developing cerebellum. *Journal of Neuroscience*, **1996**, 16, 4376-82	6.6	156
11	NMDA-receptor channel diversity in the developing cerebellum. *Nature*, **1994**, 368, 335-9	50.4	277
10	Estimated conductance of glutamate receptor channels activated during EPSCs at the cerebellar mossy fiber-granule cell synapse. *Neuron*, **1993**, 11, 279-89	13.9	203
9	Rapid-time-course miniature and evoked excitatory currents at cerebellar synapses in situ. *Nature*, **1992**, 355, 163-6	50.4	312
8	Glutamate-receptor channels in mammalian glial cells. *Annals of the New York Academy of Sciences*, **1991**, 633, 458-74	6.5	14
7	Proton inhibition of N-methyl-D-aspartate receptors in cerebellar neurons. *Nature*, **1990**, 345, 347-50	50.4	470

6	Multiple conductance channels in type-2 cerebellar astrocytes activated by excitatory amino acids. *Nature*, **1989**, 339, 380-3	50.4	236
5	Patch-clamp recording from single glutamate-receptor channels. *Trends in Pharmacological Sciences* , **1987**, 8, 218-224	13.2	16
4	Multiple-conductance channels activated by excitatory amino acids in cerebellar neurons. *Nature*, **1987**, 325, 525-8	50.4	395
3	Synaptic noise and transmitter action at nerve-muscle junctions. *Trends in Neurosciences*, **1981**, 4, 1-3	13.3	10
2	Restoration of transmitter release in botulinum-poisoned skeletal muscle. *Brain Research*, **1976**, 110, 194-8	3.7	29
1	Intracellular NASPM allows an unambiguous functional measure of GluA2-lacking calcium-permeable AMPA receptor prevalence		2