

# Stuart G Cull-Candy

## List of Publications by Citations

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59  
papers

6,338  
citations

35  
h-index

66  
g-index

66  
ext. papers

6,928  
ext. citations

14.9  
avg, IF

5.74  
L-index

#	Paper	IF	Citations
59	Role of distinct NMDA receptor subtypes at central synapses. <i>Science Signaling</i> , <b>2004</b> , 2004, re16	8.8	486
58	Adaptive regulation of neuronal excitability by a voltage-independent potassium conductance. <i>Nature</i> , <b>2001</b> , 409, 88-92	50.4	480
57	Proton inhibition of N-methyl-D-aspartate receptors in cerebellar neurons. <i>Nature</i> , <b>1990</b> , 345, 347-50	50.4	470
56	Multiple-conductance channels activated by excitatory amino acids in cerebellar neurons. <i>Nature</i> , <b>1987</b> , 325, 525-8	50.4	395
55	Single-channel properties of recombinant AMPA receptors depend on RNA editing, splice variation, and subunit composition. <i>Journal of Neuroscience</i> , <b>1997</b> , 17, 58-69	6.6	383
54	Synaptic activity at calcium-permeable AMPA receptors induces a switch in receptor subtype. <i>Nature</i> , <b>2000</b> , 405, 454-8	50.4	381
53	Rapid-time-course miniature and evoked excitatory currents at cerebellar synapses in situ. <i>Nature</i> , <b>1992</b> , 355, 163-6	50.4	312
52	NMDA-receptor channel diversity in the developing cerebellum. <i>Nature</i> , <b>1994</b> , 368, 335-9	50.4	277
51	Multiple conductance channels in type-2 cerebellar astrocytes activated by excitatory amino acids. <i>Nature</i> , <b>1989</b> , 339, 380-3	50.4	236
50	Single-channel properties of synaptic and extrasynaptic GABAA receptors suggest differential targeting of receptor subtypes. <i>Journal of Neuroscience</i> , <b>1999</b> , 19, 2960-73	6.6	211
49	Estimated conductance of glutamate receptor channels activated during EPSCs at the cerebellar mossy fiber-granule cell synapse. <i>Neuron</i> , <b>1993</b> , 11, 279-89	13.9	203
48	Structural and Functional Architecture of AMPA-Type Glutamate Receptors and Their Auxiliary Proteins. <i>Neuron</i> , <b>2017</b> , 94, 713-730	13.9	171
47	Activity-dependent recruitment of extrasynaptic NMDA receptor activation at an AMPA receptor-only synapse. <i>Journal of Neuroscience</i> , <b>2002</b> , 22, 4428-36	6.6	170
46	Functional correlation of NMDA receptor epsilon subunits expression with the properties of single-channel and synaptic currents in the developing cerebellum. <i>Journal of Neuroscience</i> , <b>1996</b> , 16, 4376-82	6.6	156
45	Stargazin attenuates intracellular polyamine block of calcium-permeable AMPA receptors. <i>Nature Neuroscience</i> , <b>2007</b> , 10, 1260-7	25.5	151
44	Subunit interaction with PICK and GRIP controls Ca <sup>2+</sup> permeability of AMPARs at cerebellar synapses. <i>Nature Neuroscience</i> , <b>2005</b> , 8, 768-75	25.5	145
43	GABAergic regulation of cerebellar NG2 cell development is altered in perinatal white matter injury. <i>Nature Neuroscience</i> , <b>2015</b> , 18, 674-82	25.5	123

42	NR2B and NR2D subunits coassemble in cerebellar Golgi cells to form a distinct NMDA receptor subtype restricted to extrasynaptic sites. <i>Journal of Neuroscience</i> , <b>2003</b> , 23, 4958-66	6.6	118
41	Activity-dependent change in AMPA receptor properties in cerebellar stellate cells. <i>Journal of Neuroscience</i> , <b>2002</b> , 22, 3881-9	6.6	99
40	Changes in synaptic structure underlie the developmental speeding of AMPA receptor-mediated EPSCs. <i>Nature Neuroscience</i> , <b>2005</b> , 8, 1310-8	25.5	95
39	A direct comparison of the single-channel properties of synaptic and extrasynaptic NMDA receptors. <i>Journal of Neuroscience</i> , <b>1997</b> , 17, 107-16	6.6	88
38	Selective regulation of long-form calcium-permeable AMPA receptors by an atypical TARP, gamma-5. <i>Nature Neuroscience</i> , <b>2009</b> , 12, 277-85	25.5	87
37	Bidirectional plasticity of calcium-permeable AMPA receptors in oligodendrocyte lineage cells. <i>Nature Neuroscience</i> , <b>2011</b> , 14, 1430-8	25.5	84
36	Identification of subunits contributing to synaptic and extrasynaptic NMDA receptors in Golgi cells of the rat cerebellum. <i>Journal of Physiology</i> , <b>2000</b> , 524 Pt 1, 147-62	3.9	81
35	Slow deactivation kinetics of NMDA receptors containing NR1 and NR2D subunits in rat cerebellar Purkinje cells. <i>Journal of Physiology</i> , <b>2000</b> , 525 Pt 2, 299-305	3.9	76
34	NMDA receptor diversity in the cerebellum: identification of subunits contributing to functional receptors. <i>Neuropharmacology</i> , <b>1998</b> , 37, 1369-80	5.5	72
33	Climbing-fibre activation of NMDA receptors in Purkinje cells of adult mice. <i>Journal of Physiology</i> , <b>2007</b> , 585, 91-101	3.9	69
32	Synaptic mGluR activation drives plasticity of calcium-permeable AMPA receptors. <i>Nature Neuroscience</i> , <b>2009</b> , 12, 593-601	25.5	66
31	Cornichons modify channel properties of recombinant and glial AMPA receptors. <i>Journal of Neuroscience</i> , <b>2012</b> , 32, 9796-804	6.6	64
30	The density of AMPA receptors activated by a transmitter quantum at the climbing fibre-Purkinje cell synapse in immature rats. <i>Journal of Physiology</i> , <b>2003</b> , 549, 75-92	3.9	56
29	Probing TARP modulation of AMPA receptor conductance with polyamine toxins. <i>Journal of Neuroscience</i> , <b>2011</b> , 31, 7511-20	6.6	51
28	Mapping the interaction sites between AMPA receptors and TARPs reveals a role for the receptor N-terminal domain in channel gating. <i>Cell Reports</i> , <b>2014</b> , 9, 728-40	10.6	47
27	Channel properties reveal differential expression of TARPed and TARPless AMPARs in stargazer neurons. <i>Nature Neuroscience</i> , <b>2012</b> , 15, 853-61	25.5	46
26	TARP $\beta 7$ selectively enhances synaptic expression of calcium-permeable AMPARs. <i>Nature Neuroscience</i> , <b>2013</b> , 16, 1266-74	25.5	39
25	Auxiliary Subunit GSG1L Acts to Suppress Calcium-Permeable AMPA Receptor Function. <i>Journal of Neuroscience</i> , <b>2015</b> , 35, 16171-9	6.6	39

24	Molecular mechanisms contributing to TARPs regulation of channel conductance and polyamine block of calcium-permeable AMPA receptors. <i>Journal of Neuroscience</i> , <b>2014</b> , 34, 11673-83	6.6	35
23	TARP-associated AMPA receptors display an increased maximum channel conductance and multiple kinetically distinct open states. <i>Journal of Physiology</i> , <b>2012</b> , 590, 5723-38	3.9	32
22	Influence of agonist concentration on AMPA and kainate channels in CA1 pyramidal cells in rat hippocampal slices. <i>Journal of Physiology</i> , <b>2006</b> , 573, 371-94	3.9	29
21	Restoration of transmitter release in botulinum-poisoned skeletal muscle. <i>Brain Research</i> , <b>1976</b> , 110, 194-8	3.7	29
20	Acid-sensing ion channel 1a drives AMPA receptor plasticity following ischaemia and acidosis in hippocampal CA1 neurons. <i>Journal of Physiology</i> , <b>2015</b> , 593, 4373-86	3.9	25
19	A role of TARPs in the expression and plasticity of calcium-permeable AMPARs: evidence from cerebellar neurons and glia. <i>Neuropharmacology</i> , <b>2013</b> , 74, 76-85	5.5	20
18	Dual Effects of TARPs on Glutamate Efficacy Can Account for AMPA Receptor Autoinactivation. <i>Cell Reports</i> , <b>2017</b> , 20, 1123-1135	10.6	17
17	TARPs Is Required for Inflammation-Associated AMPA Receptor Plasticity within Lamina II of the Spinal Cord Dorsal Horn. <i>Journal of Neuroscience</i> , <b>2017</b> , 37, 6007-6020	6.6	16
16	Patch-clamp recording from single glutamate-receptor channels. <i>Trends in Pharmacological Sciences</i> , <b>1987</b> , 8, 218-224	13.2	16
15	Glutamate-receptor channels in mammalian glial cells. <i>Annals of the New York Academy of Sciences</i> , <b>1991</b> , 633, 458-74	6.5	14
14	Transmembrane AMPAR regulatory protein is required for the modulation of GABA release by presynaptic AMPARs. <i>Journal of Neuroscience</i> , <b>2015</b> , 35, 4203-14	6.6	13
13	Lithium acts as a potentiator of AMPAR currents in hippocampal CA1 cells by selectively increasing channel open probability. <i>Journal of Physiology</i> , <b>2010</b> , 588, 3933-41	3.9	11
12	Neuroscience. AMPA receptors--another twist?. <i>Science</i> , <b>2010</b> , 327, 1463-5	33.3	10
11	Synaptic noise and transmitter action at nerve-muscle junctions. <i>Trends in Neurosciences</i> , <b>1981</b> , 4, 1-3	13.3	10
10	Homomeric GluA2(R) AMPA receptors can conduct when desensitized. <i>Nature Communications</i> , <b>2019</b> , 10, 4312	17.4	8
9	Desensitization and models of receptor-channel activation. <i>Journal of Physiology</i> , <b>2010</b> , 588, 1395-7	3.9	6
8	NMDA Receptors <b>2007</b> ,		6
7	Ca <sup>2+</sup> -permeable AMPA receptors and their auxiliary subunits in synaptic plasticity and disease. <i>Journal of Physiology</i> , <b>2021</b> , 599, 2655-2671	3.9	4

6	Altered Cerebellar Short-Term Plasticity but No Change in Postsynaptic AMPA-Type Glutamate Receptors in a Mouse Model of Juvenile Batten Disease. <i>ENeuro</i> , <b>2018</b> , 5,	3.9	3
5	The First 50 Years of Molecular Pharmacology. <i>Molecular Pharmacology</i> , <b>2015</b> , 88, 139-40	4.3	2
4	Intracellular NASPM allows an unambiguous functional measure of GluA2-lacking calcium-permeable AMPA receptor prevalence		2
3	Glutamate Receptor Auxiliary Subunits and Interacting Protein Partners in the Cerebellum <b>2013</b> , 853-879		1
2	Single-channel mechanisms underlying the function, diversity and plasticity of AMPA receptors. <i>Neuropharmacology</i> , <b>2021</b> , 198, 108781	5.5	0
1	Glutamate Receptor Auxiliary Subunits and Interacting Protein Partners in the Cerebellum <b>2022</b> , 929-955		